

**BEAUFORT SEA  
GEOTECHNICAL AND GEOPHYSICAL DATABASES**

**Prepared for:  
Supply and Services Canada  
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**1991 March**

### ABSTRACT

In 1988, EBA Engineering Consultants Ltd. (EBA) compiled a geotechnical report catalogue and a database of 1288 borehole logs completed in the Canadian Beaufort Sea between 1973 and 1987. In 1989 the database was expanded to include 1051 surficial sediment corehole logs completed prior to 1988, and 46 borehole logs completed in 1988. This report summarizes 1991 efforts to expand the geotechnical database compiled by EBA, and a geophysical database compiled in 1988 by McElhanney Geosurveys Ltd. Logs compiled in 1991 include 71 relatively deep boreholes or coreholes, and 332 surficial sediment samples. The present assignment was carried out under a contract with Supply and Services Canada on behalf of Indian and Northern Affairs Canada.

Amoco Canada Petroleum Ltd., ESSO Resources Canada Ltd., Gulf Canada Resources Ltd., the Geological Survey of Canada (GSC), and the Canadian Hydrographic Service (CHS) provided valuable data for the database expansion. Although the database now includes over 2700 log entries, it is not yet complete. Five borehole logs from the GSC database which were incomplete were not included in the database. Also, there are estimated to be several hundred more shallow corehole logs available at GSC from the 1970 and 1971 M.V. Hudson Surveys which should be included in future additions to the database. Several geophysical reports were not obtained; one from Gulf (1990 program) and the remaining reports from ESSO. The now-defunct organizations Arctic Petroleum Operators Association and Beaufort-Delta Oil Project Ltd. also have numerous reports which thus far have not been obtained or checked for relevant information.

## TABLE OF CONTENTS

		Page
	ABSTRACT . . . . .	i
1.0	INTRODUCTION . . . . .	1
2.0	PROJECT OUTLINE . . . . .	1
2.1	Objectives . . . . .	1
2.2	Methodology . . . . .	2
2.3	Deliverables . . . . .	3
2.4	Data Presentation . . . . .	4
2.5	Project Participants . . . . .	4
3.0	CATALOGUES OF GEOTECHNICAL AND GEOPHYSICAL FIELD ACTIVITIES (REPORTS) . . . . .	5
4.0	DATABASE DESCRIPTION . . . . .	6
4.1	Study Number . . . . .	6
4.2	Corehole or Borehole Number . . . . .	7
4.3	Reference to Sea Level . . . . .	9
4.4	Sample Type . . . . .	10
4.5	Soil Description . . . . .	10
4.6	Soil Classification Data . . . . .	11
4.7	Ground Ice Description and Sample Temperature . . . . .	12
5.0	CLOSURE . . . . .	12

## TABLES

## FIGURES

## APPENDIX A: Report Catalogue Data Dictionary

**APPENDIX B: Report Catalogue Entries -**

<b>B.1 - Geotechnical</b>
<b>B.2 - Geophysical &amp; Hydrographic</b>

## APPENDIX C: Borehole/Corehole/Surficial Sediment Log/Geophysical Data Source Reports

## APPENDIX D: Additional References

## **1.0 INTRODUCTION**

In 1988, EBA Engineering Consultants Ltd. (EBA) compiled a geotechnical report catalogue and a database of 1288 borehole logs completed in the Canadian Beaufort Sea between 1973 and 1987. To expand this database, in 1989, 1051 (pre-1988) surficial sediment corehole logs and 46 (1988) borehole logs were added. In 1991, Indian and Northern Affairs Canada (INAC) retained EBA through Supply and Services Canada (DSS) to expand the geotechnical report catalogue and borehole databases prepared previously by EBA, and to expand the geophysical report catalogue prepared in 1988 by McElhanney Geosurveys Ltd. (McElhanney). Logs compiled in 1991 include 71 relatively deep boreholes and coreholes, and 332 surficial sediment samples. This report provides a summary of the information collected and activities undertaken to complete the contract.

The project was conducted under DSS Contract No. A7134-0-0037/01-ST dated 1991 January 31, amended 1991 March, and authorized by Mr. P. Dixon, Science Contracting Officer. The terms of reference are documented in EBA's letters of 1991 January 17 and 1991 March 19 and in the Statement of Work appended to DSS's Contract Documents. INAC's technical authority for the project was Mr. R.J. Gowan, P.Geol.

## **2.0 PROJECT OUTLINE**

### **2.1 Objectives**

The primary objective of the study was to continue compilation of, in a standardized (ESEBase) format, a database of surficial sediment core and deep borehole data from the Canadian Beaufort Sea. The database is intended for use in the evaluation of granular resources for construction materials. The database logs are intended to be accurate stratigraphic and textural

interpretations of the originals; however, some detailed engineering (for example: strength, consolidation, etc.) data has been omitted. Existing geotechnical and geophysical report catalogues (compiled in 1988 by EBA and McElhanney, respectively) were to be updated to reflect additions made to the data base in 1989 and 1991. Computer routines for data handling were to be modified. The computer routines are addressed under separate cover.

Some of the major tasks that were required to complete the database included:

- a) Confirm the availability of and acquire copies of the geotechnical and geophysical reports including borehole/corehole/surficial sample data from Federal government departments and the major Beaufort Sea petroleum operators.
- b) Update the existing geotechnical and geophysical report catalogues.
- c) Interpret and standardize, in ESEBase format, the stratigraphic, index test (moisture content, Atterberg Limits, gradation analyses) and permafrost data for each log.
- d) Review and edit the final report catalogue entries and logs as required.
- e) Prepare floppy disk and paper copies of the report catalogue entries and logs.
- f) Prepare this final report.

## 2.2 Methodology

The listing of geotechnical and geophysical reports developed for the 1988 contract was redistributed to the major Beaufort Sea operators (Amoco Canada Petroleum Company Ltd. (Amoco), ESSO Resources Canada Ltd. (ESSO), and Gulf Canada Resources Ltd. (Gulf) to help identify missing or newly acquired data. Permission to use their data was also obtained. The Canadian Hydrographic Service (CHS) provided several hydrographic field reports. A Geological Survey of Canada (GSC) database file of available data obtained in 1989 was also used. The data which has been compiled comprises the following:

Amoco : 99 surficial sediment logs  
ESSO : 13 borehole logs  
Gulf : 235 surficial sediment logs and 2 borehole logs  
GSC : 65 corehole logs

The GSC database also contained 5 borehole logs which were considered to contain insufficient data to be included.

GSC is known to have several hundred additional logs (Hudson cores). Although these were obtained in the early 1970's, they were not included in the database because of time limitations and because they would require extensive revision to convert from detailed geological logs to compatible engineering logs.

Gulf has 2 boreholes and 6 gravity cores (1988), which have not been released for use in this project.

Some 12 boreholes done for Amoco (Canadian Marine Drilling Ltd.) in 1979 and 1980 have not been included due to time constraints.

A report catalogue data dictionary is presented in Appendix A. Appendix B contains report catalogue database entries. A listing of reports identified as containing Beaufort Sea borehole/corehole/surficial sediment/geophysical data is provided in Appendix C. Appendix D lists other reference reports.

### 2.3 Deliverables

Final deliverables required under this contract are listed below:

- a) Report catalogue databases for geotechnical, geophysical, and hydrographic reports for the Beaufort Sea in two copies of floppy disks.
- b) Borehole/corehole/surficial sediment ESEBase database for the Beaufort Sea in two copies on floppy disks and two bound paper copies.
- c) This final report (fifteen copies) describing the work undertaken and summarizing significant aspects of the database.
- d) Revised data handling routines, source code and documentation (to be presented under separate cover).

### 2.4 Data Presentation

The report catalogue compiled in 1988 has been updated to include report titles and job numbers, and is presented on a disk in a database called 'GPGT88'. The 1991 updates to the 1988 database are presented on disk: databases called 'GP91' and 'GT91' for geophysical and geotechnical reports, respectively.

In total, 403 logs are included in this update of the database.

All logs are stored on disk in one database called 'BEAU1991'. Using ESEBase, the database can be combined with the databases compiled in 1988 and 1989.

The printed logs are presented under separate cover in two volumes titled "Beaufort Sea Database, 1991: Surficial Sediment, Corehole and Borehole Log Data".

A location map for the project is presented as Figure 1.

## 2.5 Project Participants

Personnel from EBA's Calgary office were primarily involved in this project, compiling the logs and report catalogue entries, and reporting. EBA Edmonton staff also participated by providing reports, field data, and some ESEBase format logs.

Liaison with the Beaufort Sea operators, the Geological Survey of Canada, and the Canadian Hydrographic Service was conducted by EBA Calgary staff. The following organizations and people should be acknowledged for their assistance:

- Amoco Canada Petroleum Company Ltd.
  - Mr. Kevin Hewitt (geotechnical)
  - Mr. Rocque Goh (geophysical)
  
- ESSO Resources Canada Ltd.
  - Mr. Jeff Weaver, Ph.D (geotechnical)
  - Mr. Rick Lowe (geophysical)
  - Mr. Don Hersak (geophysical)



- Geological Survey of Canada
  - Mr. Steve Blasco (Bedford Institute)
  - Mr. Bob Harmes (Atlantic GeoScience Centre)
  - Mr. John McIsaac (Institute of Petroleum and Sedimentary Geology)
  - Mr. Mike Woods and Mr. Dan Dobson (Canadian Hydrographic Service)
- Gulf Canada Resources Ltd.
  - Mr. Chris Graham

### 3.0 CATALOGUE OF GEOTECHNICAL AND GEOPHYSICAL FIELD ACTIVITIES

Geotechnical and geophysical information for the databases was obtained from 44 reports. Some reports cover large geographic areas; therefore, in order to facilitate searching for this data, the catalogue of field activities includes 50 entries with separate entries for 'sub-projects' from smaller geographic zones.

The catalogue includes these entries, in dBase III + format, standardized according to the Data Dictionary presented in Appendix A. Appendix B contains the report entries. As some new borehole logs were compiled from several reports catalogued in 1988, these report entries are also presented. Appendix C provides a listing of all reports that contain Beaufort Sea borehole logs. These have been organized by Proprietor/Year/Month and Consultant/Contractor who obtained the data.

As noted previously, the database is as complete as possible with the exception of un-released and unidentified data. Inevitably, there may be some reports or logs that have been overlooked. It would be appreciated by the authors that anyone identifying missing data, bring it to our attention. Reports that contain borehole data which is not included in the database are also listed in the catalogue and uniquely identified.

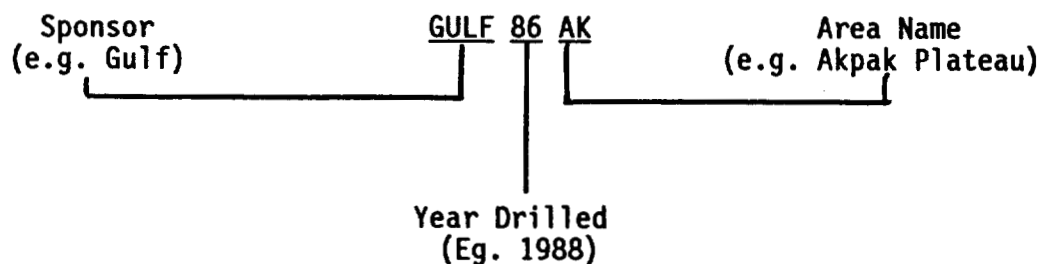
## 4.0 DATABASE DESCRIPTION

The Beaufort Sea Database was prepared with ESEBase, Version 3.0. The original format, numbering system, datum, etc., are not consistent for the raw borehole data received. The following sub-sections describe some of the modifications required to standardize the logs to ESEBase format for inclusion in the present database.

Figure 2 presents a typical borehole log, as produced by the ESEBase program.

### 4.1 Study Number

The study number identifies the report from which borehole information is obtained, and is used as a link to other databases. This field is 10 characters long, with the first 4 characters identifying the sponsor, the following 2 characters the year of the field work, and up to 4 characters to identify the area or site name, as follows:



It should be noted that reports catalogued in 1988 do not yet follow this study number format; these study numbers should be revised.

#### 4.2 Corehole/Borehole/Surficial Sediment Sample Number

To accommodate similar corehole or borehole numbers from logs acquired in different areas, some renaming and renumbering has been done. This renumbering follows a similar format to the 1988 and 1989 work. Gravity cores, piston cores, and grab samples were also distinguished from boreholes where possible. ESEBase allows eight characters for a borehole name. Some examples of revised identification format are presented herein. For reports compiled in 1991, all logs had sample numbers of two digits or less, thus, the year of sampling was included in the borehole name, for example:

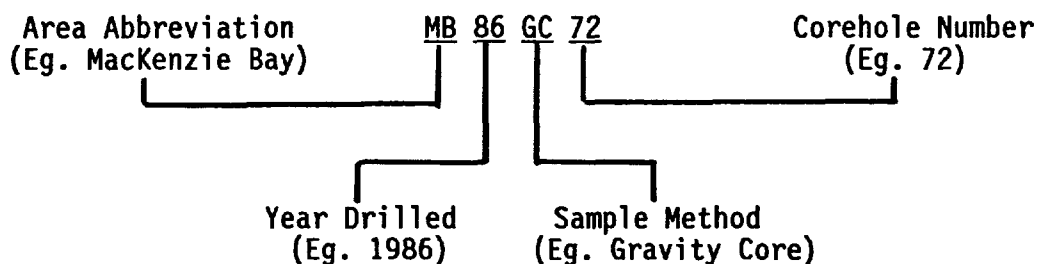
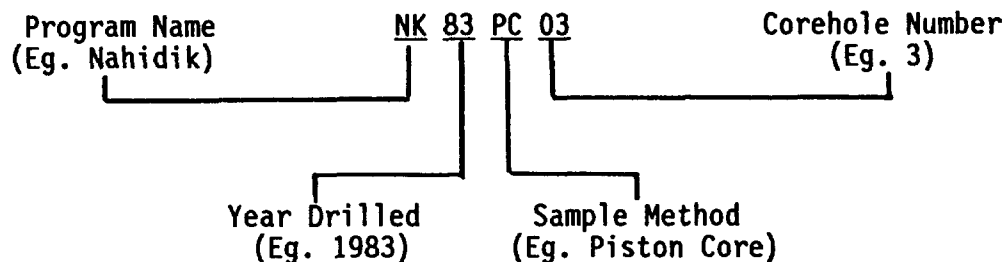


Table 1 summarizes the area abbreviations used for each block in the database. For blocks included in previous work the same abbreviation was used where possible. Some new blocks have been added.

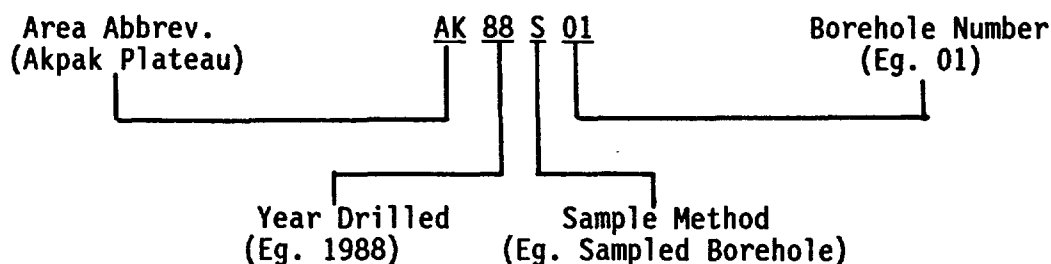
In previous work, gravity cores from the Ukalerk area were bisected into North and South as the South section is considered to belong to the Erksak region. Renaming consisted of replacing the "UB" prefix with the appropriate prefix "NU" or "SU" but the actual corehole number remained the same. For the 1991 work, gravity cores and boreholes compiled were from the South Ukalerk area.

In 1989, many coreholes from the GSC database were identified by the program name rather than a geographic region name as an identifying prefix. the corehole name format was otherwise consistent with the other renamed boreholes or coreholes. For instance:



In 1991, the remaining coreholes from GSC (with the exception of five boreholes from the Arctic Kiggiak program which had insufficient information to compile) were located on a base map, and named according to region. the coreholes compiled previously have also been located, however corehole names have not yet been updated to reflect the geographic region.

In 1989, boreholes obtained from EBA job numbers 0101-4809 and 0101-4912 were renamed to reflect the job number, as the original borehole names did not necessarily reflect geographical regions, but rather location on a proposed pipeline route - for example, centreline or transverse line or alternate line. These borehole names should be changed to reflect geographical regions. For example, borehole 4809-01 (originally P588501 - for "sampled borehole on pipeline centreline") would be renamed as follows:



The original corehole or borehole numbers (i.e. from the original logs) are identified in the top centre block of the printout logs and in "note\_3" or "xref\_3" of the database index page, if these have been changed.

The study number identifying the report source of the borehole is recorded in the "xref\_1" field of the database index page. In future, a granular source number will be recorded in the "xref\_2" field.

#### 4.3 Reference To Sea-Level

To facilitate searching capabilities with respect to sea level or seabed, all coreholes/boreholes/surficial sediment samples have been referenced to a seabed at zero metres elevation. To allow ESEBase to provide seabed profiles, a negative water depth was entered in the "top/hole" field of the database index page for each corehole log.

#### 4.4 Sample Type

Table 2 presents a list of sample types and corresponding abbreviations used for the database. For gravity cores having no recovery where the depth of penetration is unknown, the sample type is not described under sample data, but only under soil description.

#### 4.5 Soil Description

The stratigraphic information on the logs includes the following components where available.

- principal component (e.g. Clay, Sand, Silt, etc.)
- Unified Soil Classification (USC)
- principal component modifier(s) (e.g. silty, some sand, etc.)
- particle shape
- structure
- moisture
- consistency
- plasticity
- colour
- ground ice description

It should be noted that many gravity core entries are the composite of several trials at the same location (for instance A, B and C). Where change in soil type does not occur at the same depth, an average depth was calculated. However, the actual depth of a particular sample (generally the most descriptive sample was input) was plotted. For this reason, occasionally the range of a particular soil sample does not match exactly to the soil description.

Many gravity core logs gave no indication of the depth of penetration. In these cases, an arbitrary value of 0.5 m was assigned.

#### 4.6 Soil Classification Data

Moisture content, Atterberg Limits, limited grain size analyses and Unified Soil Classification (USC) data have been included in the database.

All moisture contents from original logs have been included, except where several moisture contents were performed on subsamples of a single sample. If the moisture contents were similar for the subsamples then only one moisture content value was recorded; however, moisture contents which varied significantly from one subsample to the next (e.g. sand and clay layers within a sample) were included.

Atterberg Limits and grain size analyses were used to check and provide Unified Soil Classification System (USC) classifications. Stratigraphy entered in the 'soil description' section of ESEBase have USC classifications in upper and lower case characters. Uppercase characters (e.g. CL) imply that there is soil test data to confirm the classification, while lower case USC classifications (e.g. cl) implies that there is only an estimate of the USC classification. On occasion there is soil test data which is

insufficient to fully determine the classification, for example if a grain size analysis has been done but silt and clay contents have not been distinguished and no Atterberg Limits are available. Thus if a soil description is incomplete, for instance for a sand with a high fines content, it would be difficult to say whether the sand should be classed as "SM" or "SC". In these cases lower case USC classifications are used, particularly if the logger made no attempt at classification. All USC classifications have been entered in upper case characters in the 'Basic Soil Characteristics Data' file where test data is available.

All available grain size data has been included in the database. 'D50' data was not available for the logs and was not calculated due to time constraints. This data would be a valuable addition to the logs. Silt and clay contents are presented in separate fields in the 'Basic Soil Characteristics Data' file.

#### 4.7 Ground Ice Description and Sample Temperature

The ground ice description standard used for this database follows the guidelines established by NRC. Where available and readily interpreted, ground ice information has been stored in the 'Ground Ice Description' field of the 'Scientific', 'Permafrost' and 'Rock Data' file. Soil sample temperature has been entered in the 'Temp' field of the 'Scientific', 'Permafrost' and 'Rock Data' file. This field is presented on the borehole log for logs where temperature data is available.

### **5.0 CLOSURE**

In total, 412 corehole, borehole, and surficial sediment logs from the Beaufort Sea have been summarized in a database intended to allow interpretation of the distribution of granular resources and restrictions on their development. These logs provide a valuable addition to the database completed in 1988, and updated in 1989.

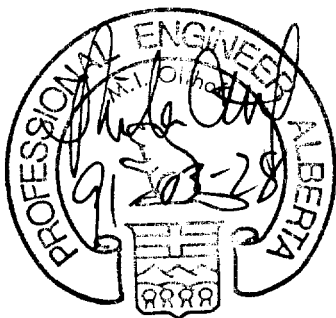
In the future, the 5 GSC logs and GSC Hudson core data not yet included in the database could be added.

Regular maintenance of the database by updating annually with new borehole data will provide a reliable source of data on Beaufort Sea granular resources.

Respectfully submitted,

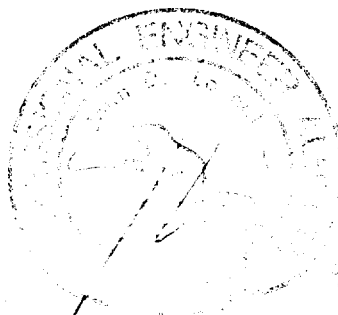
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<b>PERMIT TO PRACTICE</b>	
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Date	<i>9/24/02</i>
<b>PERMIT NUMBER: P 245</b>	
The Association of Professional Engineers, Geologists and Geophysicists of Alberta	



## LIST OF TABLES

TABLE 1      EXPLORATION BLOCK NAMES AND ABBREVIATIONS

TABLE 2      SAMPLE TYPES AND ABBREVIATIONS

**TABLE 1**  
**EXPLORATION BLOCK NAMES AND ABBREVIATIONS**  
 (includes 1988, 1989 and 1991 work)

<u>BLOCK NAME</u>	<u>ABBREVIATION</u>
Aagnerk	AA
Adlartok	AD
Amauligak	AE, AW, AF, AM
Akpak	AK
Alerk	AL
Angasak	AN
Aok	AOK
Arnak	AR
Amerk	AS
Baillie Island	BI
Nerlerk (Borrow)	BNR
Blow River	BR
Tingmiark (Borrow)	BTN
Tarsiut (Borrow)	BTAR
East Amauligak	EA
Arksak Borrow	EK
Ernerk	ERK
Irkuluk (Foundation)	FIRK
Natiak (Foundation)	FNAT
Nerlerk (Foundation)	FNR
Garry Island	G, GI
Herschel (borrow)	HB
Herschel Island	HI
Hooper/Pelly Region	HP
Isserk (Borrow)	IB
Isserk (I-15)	IR, 1SRK
Issigak (Borrow)	IBS, IK, ISGK
Immerark	IE
Igaluk	IG

**TABLE 1**  
**(Continued)**

**EXPLORATION BLOCK NAMES AND ABBREVIATIONS**  
**(includes 1988, 1989 and 1991 work)**

<u>BLOCK NAME</u>	<u>ABBREVIATION</u>
Igiloliroak	IGK
Amauligak I-06	IM
Irkaluk	IRK
Issigak	IS, II
Issungnak South	IS
Itiyok	IT
Inukpak	IU
Kakoluk	KA
Kogyuk	KB, KI, KY
Kadluk	KD
Kugdjuk	KG
Kaubvik	KH
Kaglulik	KK
Kugmallit Bay	KM
Kaglulik South	KS
Kilannak	KL
Kingark	KN
King Point	KO
Kopanoar	KP
Kringalik	KR
Kaslutut	KT
Kugmallit Trough	KU
MacKenzie Bay	MB
Minuk (Borrow)	MI
Minuk	MK
Miterk	MT
MacKenzie Trough West	MTW
Nayak	NA
Nektoralik	NE

TABLE 1

(Continued)

**EXPLORATION BLOCK NAMES AND ABBREVIATIONS**  
 (includes 1988, 1989 and 1991 work)

<u>BLOCK NAME</u>	<u>ABBREVIATION</u>
Nipterk	NP
Nipterk South (Borrow)	NS
Nipterk West (borrow)	NW
North Ukalerk	NU
Omat (Borrow)	OBS
Orksok	OK
Pullen Island	PLN
Sauvrak	PI, SK
Pelly Island	PY
Roland Bay	RB
Russel Inlet	RI
South Adlartok	SA
Sartok	SR
South Immerark	SI
South Orksok	SO
South Tarsiut	ST
South Ukalerk	SU
South Kogyuk	SY
Thetis Bay	TB
Tarsiut	TD, TW
Tiregluit	TG
Tuktoyaktuk Harbour	TH
Tent Island	TI
Unark	UK
West Tingmiark	WT
Nahidik (Program name used on 1989 where block name not available)	NK

**TABLE 2**  
**SAMPLE TYPES AND ABBREVIATIONS**  
**(Includes 1988, 1989, 1991 work)**

<u>SAMPLE TYPE</u>	<u>ABBREVIATION</u>
1) Grab Sample	Grab, G, GS, SH
2) Thin-Wall Tube	TWT, TT
3) Shelby Tube	T, TT
4) Heavy-Wall Tube	HWT, HT
5) Split-spoon	SS
6) Core	C
7) Gravity Core	GC
8) Liner	L
9) Piston Sample/Core	PIST, PC
10) Vibrocore	VIB
11) Drop Core	DC
12) No Recovery	NR

**LIST OF FIGURES**

FIGURE 1      AREA MAP OF THE BEAUFORT SEA

FIGURE 2      TYPICAL ESEBASE BOREHOLE LOG

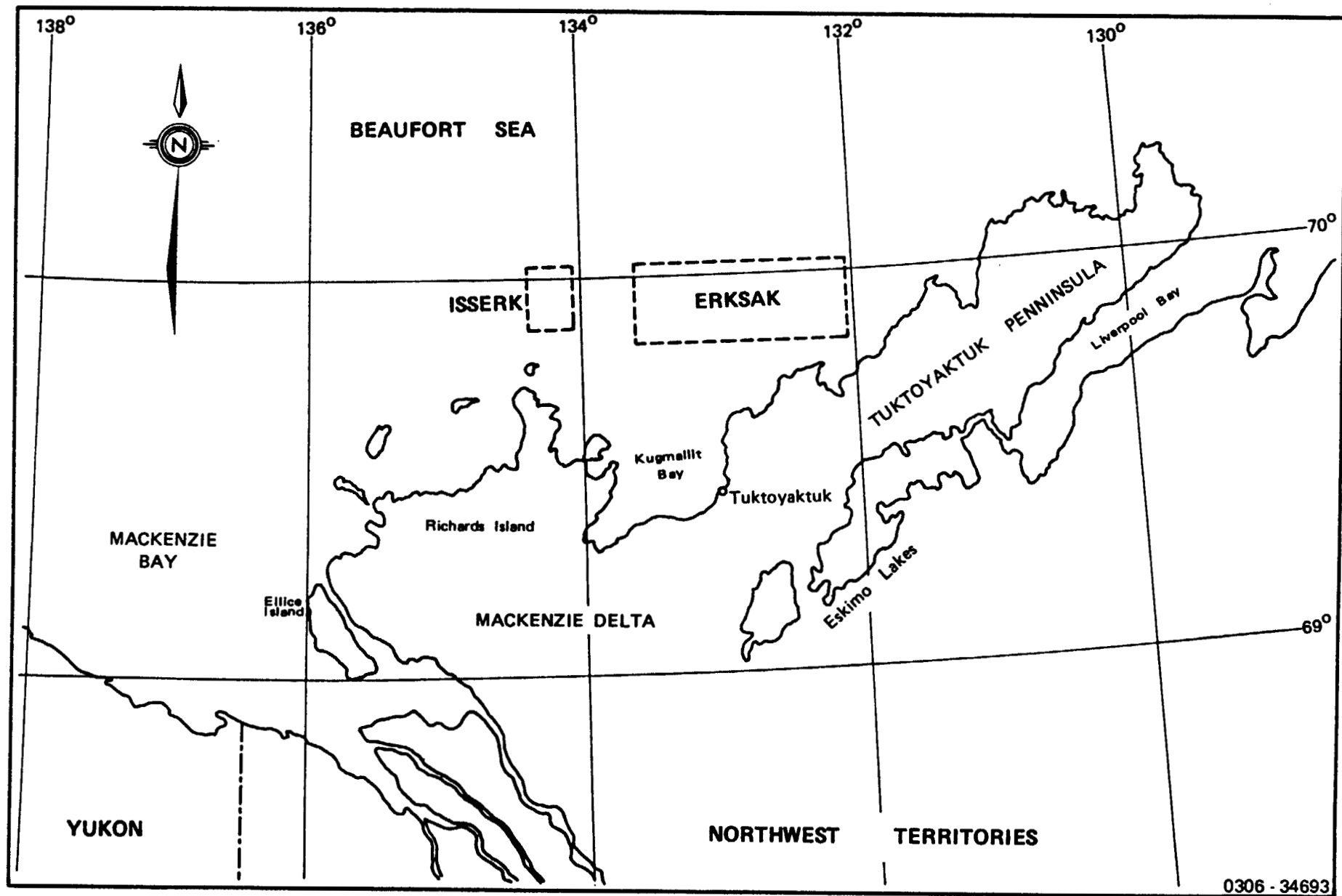


FIGURE 1 AREA MAP OF THE BEAUFORT SEA

AKPAK PLATEAU, PIPELINE ROUTE		DEPTHS ARE REFERENCED TO SEABED		BOREHOLE No. AK88GC01			
GULF CANADA		WATER DEPTH - NA		Project No: EBA 0101-4912B			
ORIGINAL BOREHOLE NO. GC-1		UTM ZONE: 8 N7750540.00 E535410.00		ELEVATION 0.00 (m)			
SAMPLE TYPE <input type="checkbox"/> SHELBY TUBE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> SPLIT SPOON <input type="checkbox"/> CORE <input type="checkbox"/> SHIPEK GRAB <input type="checkbox"/> GRAVITY CORE							
DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL DESCRIPTION	<div> <div>PLASTIC</div> <div>M.C.</div> <div>LIQUID</div> <div>20 40 60 80</div> </div>		USC	DEPTH (ft)
0.0			SAND (sw) - fine to medium grained, clean, olive overlying			SW	0.0
			SILT (ml) - clayey, laminae (thin horizontal), low plastic, olive grey			ML	
			END OF HOLE				
							-1.0
							-2.0
							-3.0
1.0							
EBA Engineering Consultants Ltd. Calgary, Alberta				COMPLETION DEPTH 0.2 m		COMPLETE 88/08/	
				LOGGED BY KWJ WWG		DWG NO.B-112	
						Page 1 of 1	



**APPENDIX A**  
**REPORT CATALOGUE DATA DICTIONARY**

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CATALOGUE OF GRANULAR RESOURCES - RELATED INFORMATION

DATA DICTIONARY - REPORT CATALOGUE

PART A: STUDY REFERENCE AND LOCATION

AA - STUDY NUMBER:

A unique study identifier number which serves as a link to other databases (e.g. Source Database, ESEBase Borehole Database).

AB - YEAR:

The calendar year in which the majority of the field work on the study was complete. (e.g. 1983)

ABI - MONTH:

The month in which the majority of the field work was completed (e.g. 07)

AC - SPONSOR:

The name of the company, department, agency or organization sponsoring the study. (e.g. Indian and Northern Affairs Canada, Yukon Transportation Engineering, Public Works Canada)

AC1 - SPONSOR JOB/FILE NUMBER:

AD - SPONSOR CONTACT NAME:

The name of the person within the sponsoring organization who might be contacted to obtain additional information on the study and/or authorization for its use.

AE - CONTRACTOR:

The name of the prime contractor, consultants or group contracted by the sponsor to undertake the study (e.g. EBA Engineering Consultants Ltd., Northern Engineering Services Company Ltd.)

AE1 - CONTRACTOR JOB/FILE NUMBER:

The contractor's file number

AE2 - CONTRACTOR CONTACT NAME

AE3 - REPORT TITLE:

The title of the original report

AF1 - MINIMUM ZONE:

The UTM zone in which the southwestern corner of the enclosing block occurs. (e.g. 07)

AF2 - MINIMUM EASTING:

The UTM grid line of the western extremity of the enclosing block. (e.g. 381987)

AF3 - MINIMUM NORTHING:

The UTM grid line of the southern extremity of the enclosing block. (e.g. 7548335)

AG1 - MINIMUM LATITUDE:

The latitude in decimal degrees of the southern extremity of the enclosing block (e.g. 69.72345)

AG2 - MINIMUM LONGITUDE:

The longitude in decimal degrees of the eastern extremity of the enclosing block (e.g. 135.03926)

AH1 - CENTRE LATITUDE:

The latitude in decimal degrees of the centre of the enclosing block (e.g. 70.72345)

AH2 - CENTRE LONGITUDE:

The longitude in decimal degrees of the centre of the enclosing block (e.g. 135.53926)

AI1 - CENTRE ZONE:

The UTM zone of the centre of the enclosing block (e.g. 08)

**AI2 - CENTRE EASTING:**

The UTM grid line of the centre of the enclosing block (e.g. 476321)

**AI3 - CENTRE NORTHING:**

The UTM grid line of the centre of the enclosing block (e.g. 7602500)

**AJ1 - MAXIMUM ZONE:**

The UTM zone in which the northeastern corner of the enclosing block occurs (e.g. 08)

**AJ2 - MAXIMUM EASTING:**

The UTM grid line of the western extremity of the enclosing block. (e.g. 567428)

**AJ3 - MAXIMUM NORTHING:**

The UTM grid line of the northern extremity of the enclosing block (e.g. 7661560)

**AK1 - MAXIMUM LATITUDE:**

The latitude in decimal degrees of the northern extremity of the enclosing block (e.g. 70.72345)

**AK2 - MAXIMUM LONGITUDE:**

The longitude in decimal degrees of the western extremity of the enclosing block (e.g. 136.03926)

**AL - GENERAL LOCATION - AREA NAME**

-regional or local name in location map/ plan

**AM - LOCATION MAP NUMBER:**

The map or plan number of any small scale accompanying regional map or trackplot which indicates the location of the study area, or series of separate detailed study/borrow sites or regional survey lines.

**AN - LOCATION MAP FORMAT:**

The format or type of data containing the location of the study area, or series of separate detailed study/borrow sites or regional survey lines (e.g. paper copy; mylar original, folded blue-line).

**AO - LOCATION MAP SCALE:**

The scale, expressed in terms of the representative fraction (e.g. 1:250,000) of any small scale accompanying regional map or trackplot which indicates the location of the study area, or series of separate detailed study/borrow sites or regional survey lines. The denominator only of the representative fraction is given since the numerator is consistently "1" (e.g. 250000)

**AP - LOCATION MAP DIGITIZER NUMBER:**

A unique five digit identifier number, to be assigned by INAC, which identifies a data set of points, lines, or polygons to be digitized from the location plan. This number links the report catalogue database to INAC's spatial database system.

**AQ - LOCATION MAP ARCHIVING:**

The general availability and where appropriate, specific location of storage of any map or plan number of any small scale accompanying regional map or trackplot which indicates the location of the study area, or series of separate detailed study/borrow sites or regional survey lines (e.g. sponsor/ contractor in-house, private/public repository, government agencies, etc.)

**AR - SITE PLAN/SITE NAME:**

Site or block name in site plans

**AS - SITE PLAN NUMBER:**

The map or plan number(s) of up to six larger scale accompanying local maps, site plans or trackplots which indicate the location of individual detailed study/borrow sites, boreholes/testpits/grab samples or detailed survey grids for separate study/borrow sites within the main study area.

**AT - SITE PLAN FORMAT:**

The format(s) or type(s) of up to six larger scale accompanying local maps, site plans or trackplots which indicate the location of individual detailed study/borrow sites, boreholes/testpits/grab samples or detailed survey grids for separate study/borrow site within the main study area (e.g. paper copy; mylar original, folded blueline).

**AU - SITE PLAN SCALE:**

The scale(s), expressed in terms of the representative fraction(s) (e.g. 1:50,000, 1:10,000) of up to six larger scale accompanying local maps, site plans or trackplots which indicate the location of individual detailed study/borrow sites, boreholes/testpits/grab samples or detailed survey grids for separate study/borrow sites within the main study area. The denominator only of the representative fraction is given since the numerator is consistently "1" (e.g. 5000)

**AV - SITE PLAN DIGITIZER NUMBER:**

A unique five digit identifier number or series of numbers, to be assigned by INAC, which identifies a data set of points, lines or polygons to be digitized from the site plans. This number links the report catalogue database to INAC's spatial database system.

**AW - SITE PLAN ARCHIVING:**

The general availability and, where appropriate, specific location of storage of up to six larger scale accompanying local maps, site plans or trackplots which indicate the location of individual detailed study/borrow sites, boreholes/testpits/grab samples or detailed survey grids for separate study/borrow sites within the main study area (e.g. sponsor/contractor in-house, private/public repository, government agencies).

**AX - SOURCE NUMBERS:**

A cross-reference field (to the source catalogue, when prepared) which lists the source numbers of the sources included in the report.

**AY - SURVEY LINE NUMBERS/LOCATION DETAILS:**

Description of geophysical or hydrographic survey line numbers or locations, or further location details of geotechnical studies.

**PART B:     STUDY DETAILS****BB - STUDY TYPE:**

The type of data collected during the study or sub-study (e.g. hydrographic, geophysical, seabed sampling, geotechnical, dredging)

**BC - STUDY SCOPE:**

The areal scope of the study or sub-study (e.g. regional, site specific single site, many sites)

**BD - STUDY SIZE:**

The extent of size of the study in terms of number of potential borrow sites identified, number of testpits or boreholes, or total number of line kilometres of geophysical data. (e.g. 21 sites; 55 BH's; 145 km)

**BE - SURVEY LEVEL:**

The general purpose or level of detail of the study (e.g. airphoto interpretation, reconnaissance, exploration, delineation, production)

**BF - SURVEY PATTERN:**

The pattern in which the individual borrow sites within the study area occur, or in which boreholes or survey lines within specific detailed study sites were laid out. (e.g. random, corridor, line, grid)

**BG - SURVEY SPACING:**

The relative (e.g. random, wide) or actual (range and/or average) spacing of the survey data or study site. (e.g. 250 m E-W, 500 m N-S; 10 - 15 km)

**BH - PROGRAM LENGTH/SURVEY LENGTH:**

The length of the field data collection or survey program, in days or showing specific dates.

**BI - SEASON:**

The season of the year in which the field data collection or survey program was conducted. (e.g. late summer, winter)

**BJ - EQUIPMENT TYPE:**

The type(s) of equipment used to collect data or obtain samples, (e.g. hand-excavated testpits; D8 cat; sonic drill; CME 750 Auger drill, etc.)

**BK - PENETRATION:**

The average penetration of drilling or soil sampling equipment, (e.g. 5, 7.5, 10), directly related to the equipment type.

**BL - RESOLUTION:**

The suitability of the data for distinguishing variations in subsurface stratigraphy, expressed in relative (e.g. poor, variable, unknown) or actual (e.g. range and/or average in tenths of metres) terms. (e.g. 0.5)

**BM - SAMPLING/RECORDING RATE:**

The relative (e.g. continuous, intermittent, slow) and/or actual rate of sampling or recording. (e.g. samples at 1 m intervals; chart speed)

**BN - SAMPLE/RECORDING QUALITY:**

A description of the relative overall quality or range in quality of the data, samples or records with regard to its use for determining subsurface stratigraphy and/or borrow quality. (e.g. poor-fair, good, disturbed, etc.)

**BO - SAMPLE/RECORDING TYPE(S):**

Additional details on the type(s) of samples (e.g. 75 mm diam. CRREL core, 1-2 kg grab samples, 100 mm sonic casing) or records obtained with the indicated types of equipment.

**BP - SAMPLE/RECORDING SIZE:**

The total number(s) of samples obtained during the study, where appropriate, and related to the Sample/Recording type(s) (e.g. 75 grabs, 15 CRREL core)



**BQ - INTERPRETATION/TESTING LEVEL:**

The extent of laboratory testing of samples (e.g. routine classification testing only, concrete aggregate suitability testing); or the level of detail of the interpretation of geophysical records (e.g. field, preliminary, detailed) or geotechnical data (e.g. pit plans for 3 sources), as appropriate.

**BR - REPORT LEVEL:**

The type or level of detail of any report(s) resulting from the study. (e.g. annotated records, field logs/report only, summary/data compilation report, formal geophysical interpretation/geotechnical evaluation report)

**BS - REPORT DISTRIBUTION:**

The extent of distribution and/or general availability of any reports resulting from the study. (e.g. internal, sponsor/contractor only, specific government department/agencies/libraries, published)

**BT - DATA ARCHIVING:**

The general availability and, where appropriate, specific location of storage of raw data obtained during the study. (e.g. sponsor/contractor in-house, private/public repository, government agencies).

**BU - OTHER REPORTS:**

Related to present report or sources covered in present report.

**BY1 - COMPILER:**

Record compiled by (company/name).

**BY2 - COMPILE DATE:**

Date record compiled.

**BY3 - DATA COMPILATION PROJECT NUMBER:**

BZ1 - UPDATER:

Record updated by (Company/Name).

BZ2 - UPDATE DATE:

Date record updated (most recent).

BZ3 - DATA UPDATE PROJECT NUMBER:

**APPENDIX B**

**REPORT CATALOGUE ENTRIES**

**B.1 - Geotechnical**

**B.2 - Geophysical and Hydrographic**

**APPENDIX B.1**  
**GEOTECHNICAL**

BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

=====

STUDY NUMBER: AMOC79TK                      MONTH: 7      YEAR: 1979

SPONSOR : AMOCO CANADA PETROLEUM COMPANY LTD. (CANMAR)

JOB NO :                      CONTACT:

CONTRACTOR : EBA (FOR ALBERTA, PULLERITS, DICKSON AND ASSOC. LTD.)

JOB NO : 0302-0610                      CONTACT: MR. NEIL MACLEOD

REPORT TITLE: GEOTECHNICAL DESIGN PARAMETERS FOR PROPOSED CANMAR BASE CAMP DOCK IN TUKTOYAKTUK

HARBOUR, NWT

<u>COORDINATES :</u>	<u>MINIMUM</u>	<u>CENTRE</u>	<u>MAXIMUM</u>
UTM:    ZONE:	0	8	0
EASTING:	0	0	0
NORTHING:	0	0	0
OR: LATITUDE:	0.00000	69.42976	0.00000
LONGITUDE:	0.00000	132.98476	0.00000

LOCATION:

GENERAL LOCATION

SITE PLAN

NAME : TUKTOYAKTUK HARBOUR

NUMBER:

SCALE : 1:0

1:

FORMAT:

ARCHIV:

DIG NO:

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS:

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : GEOTECHNICAL

SCOPE: ONE SITE

LEVEL: PRELIMINARY EXPLORATION

SIZE :                      3 BHs

SURVEY PATTERN: IRREGULAR

SURVEY SPACING: IRREGULAR

SEASON: SUMMER

PROGRAM LENGTH: NA

EQUIPMENT : NA

PENETRATION: 5.2M-35.1M-55.22M (SAND, CLAY, SILT)

RESOLUTION : GOOD

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : NA

QUALITY: NA

TYPE : NA

SIZE : NA

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : SOIL STRATIGRAPHY

REPORT : NA

DISTRIB: SPONSOR/CONTRACTOR

OTHER : EBA 30-1469, 0301-34227, 101-2995, 101-2843.2, 101-2968 (108Hs)

ARCHIVING OF INFORMATION:

REPORT : SPONSOR/CONTRACTOR

DATA : SC

DATA COMPILATION AND UPDATING:

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.

DATE : 91/03/19      COMPILATION PROJECT NO.: 0306-34693

UPDATED BY :

DATE :                      UPDATE PROJECT NO.:

**STUDY NUMBER:** D-81-002      **MONTH:** 7    **YEAR:** 1981

<u>COORDINATES :</u>	<u>MINIMUM</u>	<u>CENTRE</u>	<u>MAXIMUM</u>
UTM:    ZONE:	8	0	8
EASTING:	462000	0	466500
NORTHING:	7736500	0	7739500
OR: LATITUDE:	0.00000		0.00000
LONGITUDE:	0.00000	0.00000	0.00000

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
 DATE : 88/03 COMPILATION PROJECT NO.: 0306-34413  
 UPDATED BY: EBA ENGINEERING CONSULTANTS LTD.  
 DATE : 91/03/27 UPDATE PROJECT NO.: 0306-34693

BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

\*\*\*\*\*  
STUDY NUMBER: D-82-002

MONTH: 7    YEAR: 1982

SPONSOR : AMOCO CANADA PETROLEUM CO LTD. (DOME, CANMAR)

JOB NO : CONTACT: K. Hewitt

CONTRACTOR : EBA Engineering Consultants Ltd. and McClelland Engineers, Inc.

JOB NO : 101-3605    CONTACT: MR. KEVIN JONES

REPORT TITLE: 1982 OFFSHORE GEOTECHNICAL SITE INVESTIGATION, BAILLIE ISLAND GRAVEL SEARCH,  
BEAUFORT SEA

<u>COORDINATES :</u>	<u>MINIMUM</u>	<u>CENTRE</u>	<u>MAXIMUM</u>
UTM: ZONE:	8	0	8
EASTING:	512180	0	584090
NORTHING:	7765050	0	7885520
OR: LATITUDE:	0.00000		0.00000
LONGITUDE:	0.00000	0.00000	0.00000

LOCATION:

	<u>GENERAL LOCATION</u>	<u>SITE PLAN</u>
NAME :		Baillie Island
NUMBER: 1,A.1,A.2		1,A.1,A.2
SCALE : 1:2272727		1:2272727,270270,675
FORMAT:		
ARCHIV:		
DIG NO:		

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS:

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : dredging

SCOPE: 1 site

LEVEL: stratigraphy, delineation

SIZE : 22 clam-shell samples

SURVEY PATTERN: random

SURVEY SPACING: random

SEASON: summer    PROGRAM LENGTH:

EQUIPMENT : clam-shell sampler, bucket dredge sampler

PENETRATION: seabed surface

RESOLUTION : good

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : N.A.

QUALITY: disturbed

TYPE : clam-shell samples

SIZE : 22 grab

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : grain distribution

REPORT : summary/data compilation report

DISTRIB: sponsor/contractors

OTHER :

ARCHIVING OF INFORMATION:

REPORT :

DATA : sponsor/contractors

DATA COMPILATION AND UPDATING:

COMPILED BY:

DATE : 88/03    COMPILATION PROJECT NO.:

UPDATED BY : EBA ENGINEERING CONSULTANTS LTD.

DATE : 91/03/27    UPDATE PROJECT NO.: 0306-34693

BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

=====

STUDY NUMBER: APOA70S8FT      MONTH: 0      YEAR: 1970

SPONSOR : ARCTIC PETROLEUM OPERATORS ASSOCIATION  
JOB NO : APOA #3      CONTACT:  
CONTRACTOR : GOLDER BRAUNER & ASSOCIATES  
JOB NO :      CONTACT:  
REPORT TITLE: 1970 BOTTOM SAMPLING PROGRAM, SOUTH COAST OF BEAUFORT SEA - MACKENZIE BAY TO  
LIVERPOOL BAY, NWT

COORDINATES :	MINIMUM	CENTRE	MAXIMUM
UTM: ZONE:	0	0	0
EASTING:	0	0	0
NORTHING:	0	0	0
OR: LATITUDE:	0.00000	0.00000	0.00000
LONGITUDE:	0.00000	0.00000	0.00000

LOCATION:

	GENERAL LOCATION	SITE PLAN
NAME :	SOUTH COAST OF BEAUFORT SEA	MACKENZIE BAY TO LIVERPOOL BAY

NUMBER:  
SCALE : 1:0      1:  
FORMAT:  
ARCHIV: SPONSOR/CONTRACTOR  
DIG NO: NA      NA

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS:

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : GEOTECHNICAL  
SCOPE: REGIONAL  
LEVEL: BOTTOM SAMPLING

SIZE :      11 Bhs, 36 INSITU TESTS (SPT, VANE)  
SURVEY PATTERN: NA  
SURVEY SPACING: NA  
SEASON: NA      PROGRAM LENGTH: NA

EQUIPMENT : NA

PENETRATION: 2.7M-12.2M-18M-30M (SILT, SILT-SAND, SAND)

RESOLUTION : NA

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : NA  
QUALITY: NA  
TYPE : NA  
SIZE : NA

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : SOIL CLASSIFICATION, PROPERTIES, STRENGTH, PERMAFROST  
REPORT : NA  
DISTRIB: SPONSOR/CONTRACTOR  
OTHER : EBA #3-0150, 3-0177

ARCHIVING OF INFORMATION:

REPORT : SPONSOR/CONTRACTOR  
DATA : SC

DATA COMPILATION AND UPDATING:

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/08      COMPILATION PROJECT NO.: 0306-34693  
UPDATED BY :  
DATE :      UPDATE PROJECT NO.:



BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

=====

STUDY NUMBER: BDOP75BFT                      MONTH: 0      YEAR: 1975

SPONSOR : BEAUFORT-DELTA OIL PROJECT LTD.  
JOB NO : 39 (NO. 6)                      CONTACT:  
CONTRACTOR : EBA ENGINEERING CONSULTANTS LTD.  
JOB NO : 3-0177                      CONTACT: MR. DON HAYLEY  
REPORT TITLE: MACKENZIE BAY - A CRITICAL REVIEW OF THE AVAILABLE SEA BOTTOM AND SUBSURFACE  
INFORMATION, 1976 MAY

COORDINATES :	MINIMUM	CENTRE	MAXIMUM
UTM: ZONE:	8	8	8
EASTING:	460000	0	552000
NORTHING:	7710000	0	7760000
OR: LATITUDE:	0.00000	0.00000	0.00000
LONGITUDE:	0.00000	0.00000	0.00000

LOCATION:

	GENERAL LOCATION	SITE PLAN
NAME :	MACKENZIE BAY TO KUGMALLIT BAY	

NUMBER: 3-0,3-1,4-0  
SCALE : 1:800000                      1:  
FORMAT: PAPER COPY  
ARCHIV: SPONSOR/CONTRACTOR  
DIG NO: NA                      NA

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS: UNKNOWN

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : GEOPHYSICAL, GEOTECHNICAL  
SCOPE: MANY SITES  
LEVEL: REVIEW OF EXISTING DATA, SEISMIC AND SOIL DATA COLLECTION (UNDER EBA #965.2)

SIZE : 80000 SQ KM  
SURVEY PATTERN: NA  
SURVEY SPACING: N/A  
SEASON: N/A                      PROGRAM LENGTH: N/A

EQUIPMENT : NA

PENETRATION: 150M+ (SILT, SAND, CLAY)

RESOLUTION : GENERALLY GOOD

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : NA  
QUALITY: NA  
TYPE : NA  
SIZE : N/A

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : SOIL STRATIGRAPHY  
REPORT : GEOTECHNICAL REVIEW  
DISTRIB: SPONSOR/CONTRACTOR  
OTHER : EBA #E-965.2, 3-0150, 3-0090

ARCHIVING OF INFORMATION:

REPORT : SPONSOR/CONTRACTOR  
DATA : SC

DATA COMPILATION AND UPDATING:

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/08                      COMPILATION PROJECT NO.: 0306-34693  
UPDATED BY :  
DATE :                      UPDATE PROJECT NO.:

BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

=====

STUDY NUMBER: BDOP768FT1      MONTH: 2      YEAR: 1976

SPONSOR : BEAUFORT-DELTA OIL PROJECT LTD.  
JOB NO : 39 (NO. 6)      CONTACT: MR. P.E. BOISSEAU  
CONTRACTOR : EBA ENGINEERING CONSULTANTS LTD.  
JOB NO : 3-0090      CONTACT: MR. DON HAYLEY  
REPORT TITLE: GEOTECHNICAL REVIEW OF ARCTIC PETROLEUM OPERATORS ASSOCIATION REPORT NO. 39 (MAJOR TASK NO. 06)

<u>COORDINATES :</u>	<u>MINIMUM</u>	<u>CENTRE</u>	<u>MAXIMUM</u>
UTM: ZONE:	8	8	8
EASTING:	460000	0	552000
NORTHING:	7710000	0	7760000
OR: LATITUDE:	0.00000	0.00000	0.00000
LONGITUDE:	0.00000	0.00000	0.00000

LOCATION:

	<u>GENERAL LOCATION</u>	<u>SITE PLAN</u>
NAME :	MACKENZIE BAY TO KUGMALLIT BAY PIPELINE ROUTE-INFERRED STRAT.	PROFILE
NUMBER:	N/A	3-90-A1
SCALE :	1:0	1:200000
FORMAT:	NA	BLUELINE
ARCHIV:	NA	SPONSOR/CONTRACTOR
DIG NO:	NA	NA

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS: N/A

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : GEOTECHNICAL  
SCOPE: PIPELINE ALIGNMENT  
LEVEL: REVIEW OF FINDINGS OF ARCTIC PETROLEUM OPERATORS ASSOCIATION RPT 39

SIZE : 56 KM  
SURVEY PATTERN: NA  
SURVEY SPACING: N/A  
SEASON: N/A      PROGRAM LENGTH: N/A

EQUIPMENT : NA

PENETRATION: 150M (SILT,CLAY,SAND)

RESOLUTION : APPEARS GOOD

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : NA  
QUALITY: NA  
TYPE : NA  
SIZE : N/A

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : SOIL STRATIGRAPHY, ICE MOVEMENTS, PERMAFROST  
REPORT : GEOTECHNICAL REVIEW  
DISTRIB: SPONSOR/CONTRACTOR  
OTHER : EBA #E-660(1974), E-965(1975), PEMCAN-RESULTS OF SHALLOW PROFILES PROGRAM, NORTH OF RICHARDS ISLAND

ARCHIVING OF INFORMATION:

REPORT : SPONSOR/CONTRACTOR  
DATA : SC

DATA COMPILATION AND UPDATING:

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/08      COMPILATION PROJECT NO.: 0306-34693  
UPDATED BY :  
DATE :      UPDATE PROJECT NO.:

BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

=====

STUDY NUMBER: BOOP768FT2      MONTH: 5      YEAR: 1976

SPONSOR : BEAUFORT-DELTA OIL PROJECT LTD.  
JOB NO : 39 (NO. 6)      CONTACT: MR. P.E. BOISSEAU  
CONTRACTOR : EBA ENGINEERING CONSULTANTS LTD.  
JOB NO : 3-0150      CONTACT: MR. DON HAYLEY  
REPORT TITLE: MACKENZIE BAY GEOTECHNICAL INFORMATION, A REVIEW FOR MARINE PIPELINE STUDIES, 1976  
MAY

<u>COORDINATES :</u>	<u>MINIMUM</u>	<u>CENTRE</u>	<u>MAXIMUM</u>
UTM: ZONE:	8	8	8
EASTING:	460000	0	552000
NORTHING:	7710000	0	7760000
OR: LATITUDE:	0.00000	0.00000	0.00000
LONGITUDE:	0.00000	0.00000	0.00000

LOCATION:

<u>GENERAL LOCATION</u>	<u>SITE PLAN</u>
NAME : MACKENZIE BAY TO KUGMALLIT BAY	

NUMBER: 3-1,3-1,3-2,4-0  
SCALE : 1:800000      1:  
FORMAT: BLUELINE  
ARCHIV: SPONSOR/CONTRACTOR  
DIG NO: NA      NA

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS: N/A

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : GEOTECHNICAL REVIEW  
SCOPE: PIPELINE ALIGNMENT  
LEVEL: REVIEW OF AVAILABLE INFORMATION FOR AREA

SIZE : 8000 KM  
SURVEY PATTERN: NA  
SURVEY SPACING: N/A  
SEASON: N/A      PROGRAM LENGTH: N/A

EQUIPMENT : NA

PENETRATION: 150M+, (SILT, SAND, CLAY)

RESOLUTION : GENERALLY GOOD

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : NA  
QUALITY: NA  
TYPE : NA  
SIZE : N/A

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : SOIL STRATIGRAPHY  
REPORT : GEOTECHNICAL REVIEW  
DISTRIB: SPONSOR/CONTRACTOR  
OTHER : EBA #E-660, E-965.2, COOK, PICKERING & DOYLA (1972, 1973) GOLDER 1970,  
HUNTEC (1974), PEMCON (1972), EBA 3-

ARCHIVING OF INFORMATION:

REPORT : SPONSOR/CONTRACTOR  
DATA : SC

DATA COMPILATION AND UPDATING:

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/08      COMPILATION PROJECT NO.: 0306-34693  
UPDATED BY :  
DATE :      UPDATE PROJECT NO.:

BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

=====

STUDY NUMBER: BDOP768FT3      MONTH: 0      YEAR: 1976

SPONSOR : BEAUFORT-DELTA OIL PROJECT LTD.  
JOB NO : 39 (NO. 6)      CONTACT:  
CONTRACTOR : EBA ENGINEERING CONSULTANTS LTD.  
JOB NO : 3-0177      CONTACT: MR. DON HAYLEY  
REPORT TITLE: OFFSHORE PIPELINE ACTIVITIES, 1975-1976 PART 1-BACKGROUND REPORTS (1 VOL), PART 2,  
SOME GEOTECHNICAL, GEOPHYSICAL, GEOTHERMAL AND ENVIRONMENTAL ASPECTS OF THE SOUTHERN

COORDINATES : BS (3 VOLS)  

UTM:	ZONE:	MINIMUM	CENTRE	MAXIMUM
	EASTING:	8	8	8
	NORTHING:	455000	0	650000
OR:	LATITUDE:	7696000	0	7774000
	LONGITUDE:	0.00000	0.00000	0.00000
		0.00000	0.00000	0.00000

LOCATION:  

	GENERAL LOCATION	SITE PLAN
NAME :	MACKENZIE BAY TO KUGHALLIT BAY	

NUMBER: M1,M2,M3  
SCALE : 1:100000      1:  
FORMAT: BLUELINE  
ARCHIV: SPONSOR/CONTRACTOR  
DIG NO: NA      NA

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS: N/A

DESCRIPTION OF STUDY AND SURVEY DETAILS:  
TYPE : GEOTECHNICAL, GEOPHYSICAL, GEOTHERMAL, ENVIRONMENTAL  
SCOPE: REGIONAL  
LEVEL: REVIEW OF EXISTING INFORMATION

SIZE : NA  
SURVEY PATTERN: NA  
SURVEY SPACING: NA  
SEASON: NA      PROGRAM LENGTH: NA

EQUIPMENT : NA

PENETRATION: NA

RESOLUTION : NA

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : NA  
QUALITY: NA  
TYPE : NA  
SIZE : NA

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:  
INTERP : SOIL STRATIGRAPHY, GEOTHERMAL, ENVIRONMENTAL ASPECTS  
REPORT : FORMAL REVIEW  
DISTRIB: SPONSOR/CONTRACTOR  
OTHER :

ARCHIVING OF INFORMATION:  
REPORT : SPONSOR/CONTRACTOR  
DATA : SC

DATA COMPILATION AND UPDATING:  
COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/11      COMPILATION PROJECT NO.: 0306-34693  
UPDATED BY :  
DATE :      UPDATE PROJECT NO.:

BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

=====

STUDY NUMBER: ESS072MKDL      MONTH: 0      YEAR: 1972

SPONSOR : ESSO RESOURCES CANADA LTD.  
JOB NO :      CONTACT: JEFF WEAVER, PHD  
CONTRACTOR : COOK, PICKERING & DOYLE  
JOB NO :      CONTACT:  
REPORT TITLE: SOIL DRILLING PROGRAM - MACKENZIE DELTA, 1972

<u>COORDINATES</u> :	<u>MINIMUM</u>	<u>CENTRE</u>	<u>MAXIMUM</u>
UTM: ZONE:	0	0	0
EASTING:	0	0	0
NORTHING:	0	0	0
OR: LATITUDE:	0.00000	0.00000	0.00000
LONGITUDE:	0.00000	0.00000	0.00000

LOCATION:

	<u>GENERAL LOCATION</u>	<u>SITE PLAN</u>
NAME :	MACKENZIE DELTA	SOUTH OF HOOPER & PELLY ISLANDS

NUMBER:  
SCALE : 1:0      1:  
FORMAT:  
ARCHIV: SPONSOR/CONTRACTOR  
DIG NO: NA      NA

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS:

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : GEOTECHNICAL  
SCOPE: REGIONAL  
LEVEL: SOIL STRATIGRAPHY

SIZE :      205 SQ KM, 46 CHS(121 IN-SITU TESTS-SPT)  
SURVEY PATTERN: NA  
SURVEY SPACING: NA  
SEASON: NA      PROGRAM LENGTH: NA

EQUIPMENT : NA

PENETRATION: 2.7M-12.2M, MAX 33.3M, (CLAY, CLAY-SILT, SILT-SAND, SAND)

RESOLUTION : NA

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : NA  
QUALITY: NA  
TYPE : NA  
SIZE : NA

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : SOIL CLASSIFICATION, PROPERTIES, STRENGTH, PERMAFROST  
REPORT : NA  
DISTRIB: SPONSOR/CONTRACTOR  
OTHER : EBA #3-0150, ESSO 2739-04 (MAY 1972), 3-0177

ARCHIVING OF INFORMATION:

REPORT : SPONSOR/CONTRACTOR  
DATA : SC

DATA COMPILATION AND UPDATING:

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/08      COMPILATION PROJECT NO.: 0306-34693  
UPDATED BY :  
DATE :      UPDATE PROJECT NO.:

**STUDY NUMBER:** ESS072R1

MONTH: 0      YEAR: 1972

**JOB NO :** **CONTACT: JEFF WEAVER, PHD**

**JOB NO :** **CONTACT:**

<u>COORDINATES :</u>	<u>MINIMUM</u>	<u>CENTRE</u>	<u>MAXIMUM</u>
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LOCATION:

## SITE PLAN

**NUMBER :**

1:

ARCHIV: SPONSOR/CONTRACTOR

NA

**SURVEY LINES / LOCATION DETAILS:**

**TYPE : GEOPHYSICAL, GEOTECHNICAL**

LEVEL: SOIL CLASSIFICATION, DELINEATE BORROW

**SURVEY PATTERN:** NA

**SURVEY SPACING:** NA

SEASON: NA

**PROGRAM LENGTH: NA**

EQUIPMENT : NA

**PENETRATION: 2.7M**

**RESOLUTION : NA**

**RATE : NA**

QUALITY: NA

TYPE : NA

SIZE : NA

INTERP : SOIL CLASSIFICATION, BORROW

REPORT : NA

DISTRIB: SPONSOR/CONTRACTOR

OTHER : EBA 3-0090,3-0150,3-0177

## REPORT : SPONSOR/CONTRACTOR

DATA : SC

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.

DATE : 91/03/08

DATE :  
UPDATED BY :

DATE :

UPDATE PROJECT NO.:

BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

=====

STUDY NUMBER: ESS073RI                      MONTH: 0      YEAR: 1973

SPONSOR : ESSO RESOURCES CANADA LTD.  
JOB NO :                      CONTACT: JEFF WEAVER, PHD  
CONTRACTOR : COOK, PICKERING & DOYLE  
JOB NO :                      CONTACT:  
REPORT TITLE: SOIL ENGINEERING REPORT-BEAUFORT SEA-NORTHWEST OF RICHARDS ISLAND, 1973

<u>COORDINATES :</u>	<u>MINIMUM</u>	<u>CENTRE</u>	<u>MAXIMUM</u>
UTM:    ZONE:	0	0	0
EASTING:	0	0	0
NORTHING:	0	0	0
OR: LATITUDE:	0.00000	0.00000	0.00000
LONGITUDE:	0.00000	0.00000	0.00000

LOCATION:

<u>GENERAL LOCATION</u>	<u>SITE PLAN</u>
NAME : NORTHWEST OF RICHARDS ISLAND	WEST OF PELLY ISLAND TO KUGMALLIT BAY
NUMBER:	
SCALE : 1:0	1:
FORMAT:	
ARCHIV: SPONSOR/CONTRACTOR	
DIG NO: NA	NA

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS:

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : GEOTECHNICAL  
SCOPE: ONE SITE  
LEVEL: SOIL CLASSIFICATION

SIZE :                      10 BHs, (12 IN-SITU TESTS-SPT)  
SURVEY PATTERN:    NA  
SURVEY SPACING:    NA  
SEASON: NA                      PROGRAM LENGTH: NA

EQUIPMENT : NA

PENETRATION: 6M-12M(CLAY-SILT,SILT,SILT-SAND,SAND)

RESOLUTION : NA

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : NA  
QUALITY: NA  
TYPE : NA  
SIZE : NA

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : SOIL CLASSIFICATION, PROPERTIES, STRENGTH  
REPORT : NA  
DISTRIB: SPONSOR/CONTRACTOR  
OTHER : EBA #3-0150, 3-0177

ARCHIVING OF INFORMATION:

REPORT : SPONSOR/CONTRACTOR  
DATA : SC

DATA COMPILATION AND UPDATING:

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/08      COMPILATION PROJECT NO.: 0306-34693  
UPDATED BY :  
DATE :                      UPDATE PROJECT NO.:

BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

=====

STUDY NUMBER: ESSO781S                      MONTH: 5      YEAR: 1978

SPONSOR : ESSO RESOURCES CANADA LTD.  
JOB NO :                                      CONTACT: JEFF WEAVER, PHD  
CONTRACTOR : EBA ENGINEERING CONSULTANTS LTD.  
JOB NO : 36-0334                      CONTACT: MR. NEIL MACLEOD  
REPORT TITLE: SEISMIC INTERPRETATION OF ISSUNGNAK/ISSERK NORTH, 1978 MAY 03

<u>COORDINATES :</u>	<u>MINIMUM</u>	<u>CENTRE</u>	<u>MAXIMUM</u>
UTM: ZONE:	0	0	0
EASTING:	0	0	0
NORTHING:	0	0	0
OR: LATITUDE:	0.00000	0.00000	0.00000
LONGITUDE:	0.00000	0.00000	0.00000

LOCATION:

	<u>GENERAL LOCATION</u>	<u>SITE PLAN</u>
NAME :	ISSUNGNAK	
NUMBER: 1		
SCALE :	1:400000	1:
FORMAT:	PAPER COPY	
ARCHIV:	SPONSOR/CONTRACTOR	
DIG NO:	NA	NA

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS: N/A

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : GEOPHYSICAL, GEOTECHNICAL

SCOPE: ONE SITE

LEVEL: INTERPRETATION OF EXISTING DATA FOR PLANNING OF 1978 BORROW INVESTIGATION

SIZE : N/A  
SURVEY PATTERN: NA  
SURVEY SPACING: NA  
SEASON: NA                                      PROGRAM LENGTH: NA

EQUIPMENT : NA

PENETRATION: N/A

RESOLUTION : GOOD

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : NA  
QUALITY: NA  
TYPE : NA  
SIZE : NA

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : SOIL STRATIGRAPHY

REPORT : LETTER

DISTRIB: SPONSOR/CONTRACTOR

OTHER : GSC 1977 NAHIDIK(PULLEN 30-67), HUNTEC LINES 14000, 15588, 17300, 18800  
KENTING, 844-849, 854-865, 887, 888

ARCHIVING OF INFORMATION:

REPORT : SPONSOR/CONTRACTOR  
DATA : SC

DATA COMPILATION AND UPDATING:

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.

DATE : 91/03/08      COMPILATION PROJECT NO.: 0306-34693

UPDATED BY :

DATE :                      UPDATE PROJECT NO.:



**STUDY NUMBER: E-83-001**

MONTH: 7      YEAR: 1983

**JOB NO :** **CONTACT: JEFF WEAVER, PHD**

**CONTRACTOR : EBA Engineering Consultants Ltd.**

JOB NO : 101-3868 CONTACT: MR. KEVIN JONES

REPORT TITLE: 1983 OFFSHORE GEOTECHNICAL SITE INVESTIGATION, ISSIGAK BORROW SITE, BEAUFORT SEA

<u>COORDINATES :</u>		<u>MINIMUM</u>	<u>CENTRE</u>	<u>MAXIMUM</u>
UTM:	ZONE:	8	0	8
	EASTING:	458600	0	466300
	NORTHING:	7730000	0	7739000
OR:	LATITUDE:	0.00000		0.00000
	LONGITUDE:	0.00000	0.00000	0.00000

**LOCATION:**

### GENERAL LOCATION

## SITE PLAN

NAME : Issigak

NUMBER: A A  
SCALE : 1:37000 1:37000

**FORMAT:**

ARCHIV:

**DIG NO:**

**SOURCE NUMBER(S):**

**SURVEY LINES / LOCATION DETAILS:**

**DESCRIPTION OF STUDY AND SURVEY DETAILS:**

**TYPE :** geotechnical

**SCOPE: 10 sites**

**LEVEL:** delineation

SIZE : 460 GCs, 125 BHs  
SURVEY PATTERN: GC: line, BH: random  
SURVEY SPACING: random  
SEASON: summer PROGRAM LENGTH:

**EQUIPMENT** : Sinco 5000 WS (wireline)

**PENETRATION: BH: 0.3-2.2-10.6m, GC: 1.0m**

**RESOLUTION : good**

**INFORMATION ON SAMPLES OR SURVEY RECORDS:**

**RATE : BH: 0.6-2m intervals**

**QUALITY:** disturbed but stratigraphy intact

TYPE : 63mm heavy-walled tubes, SPT

**SIZE : 370 grab**

**LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:**

**INTERP : soil classification**

**REPORT : formal geotechnical evaluation**

**DISTRIB:** sponsor/contractor

**OTHER :**

**ARCHIVING OF INFORMATION:**

**REPORT : SPONSOR/CONTRACTOR**

**DATA : sponsor/contractor**

**DATA COMPILATION AND UPDATING:**

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.

DATE : 88/03      COMPILATION PROJECT NO.: 0306-34413

**UPDATED BY : EBA ENGINEERING CONSULTANTS LTD.**

**DATE : 91/03/27 UPDATE PROJECT NO.: 0306-34693**

BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

=====

STUDY NUMBER: ESS087AN MONTH: 1 YEAR: 1987

SPONSOR : ESSO RESOURCES CANADA LTD.  
JOB NO : CONTACT: JEFF WEAVER, PHD  
CONTRACTOR : GOLDER ASSOCIATES LTD.  
JOB NO : 862-2072 CONTACT: MR. KEN BEEN  
REPORT TITLE: VERIFICATION TESTING AND INSTRUMENT INSTALLATIONS, ANGASAK EO3 SPRAY ICE  
ISLAND, 1987 JULY

COORDINATES :	MINIMUM	CENTRE	MAXIMUM
UTM: ZONE:	0	0	0
EASTING:	0	0	0
NORTHING:	0	0	0
OR: LATITUDE:	0.00000	70.21225	0.00000
LONGITUDE:	0.00000	129.54723	0.00000

LOCATION:

	<u>GENERAL LOCATION</u>	<u>SITE PLAN</u>
NAME :	ANGASAK L-03	ANGASAK L-03
NUMBER: 1		2
SCALE : 1:2964300		1:1000
FORMAT: PAPER COPY		PAPER COPY
ARCHIV: SPONSOR/CONTRACTOR		SPONSOR/CONTRACTOR
DIG NO: NA		NA

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS: N/A

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : GEOTECHNICAL  
SCOPE: ONE SITE  
LEVEL: SOIL CLASSIFICATION, STRATIGRAPHY

SIZE : 5 BHs, 3 SONDEX/SI, 3IPI, 3 POREWATER, 14CPT  
SURVEY PATTERN: IRREGULAR GRID  
SURVEY SPACING: IRREGULAR, GENERALLY LESS THAN 50M  
SEASON: WINTER PROGRAM LENGTH: 9 DAYS, JAN 22-FEB 4

EQUIPMENT : CME 750 DRILL WITH HOLLOW STEM AUGER, MUD ROTARY, NQ WIRELINE CORE BARREL

PENETRATION: 12.8M-14.9M SPRAY ICE/SEABED BHs, 56.3 GSC BH(SILTY SAND, SANDY SILT, SAND, ORGANIC LAYERS)  
RESOLUTION : GOOD

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : 1.5M BHs, CONTINUOUS FOR CORE AND CPT  
QUALITY: GOOD  
TYPE : CORE IN ICE, SPLIT SPOON IN SOIL, POREWATER  
SIZE : 23 SPLIT SPOON, 19 TWT

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : SOIL CLASSIFICATION, STRATIGRAPHY  
REPORT : GEOTECHNICAL DATA, FORMAL REPORT  
DISTRIB: SPONSOR/CONTRACTOR  
OTHER :

ARCHIVING OF INFORMATION:

REPORT : SPONSOR/CONTRACTOR  
DATA : SC

DATA COMPILATION AND UPDATING:

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/04 COMPILATION PROJECT NO.: 0306-34693  
UPDATED BY :  
DATE : UPDATE PROJECT NO.:

BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

=====

STUDY NUMBER: ESSO90NP                      MONTH: 1      YEAR: 1989

SPONSOR : ESSO RESOURCES CANADA LTD.  
JOB NO :    CONTACT: JEFF WEAVER, PHD  
CONTRACTOR : GOLDER ASSOCIATES LTD.  
JOB NO : 882-2105                                      CONTACT: MR. KEN BEEN  
REPORT TITLE: VERIFICATION TESTING AND INSTRUMENT INSTALLATIONS, NIPTERK P-32 SPRAY ICE  
ISLAND, BEAUFORT SEA, NORTHWEST TERRITORIES, 1990 APRIL

<u>COORDINATES :</u>	<u>MINIMUM</u>	<u>CENTRE</u>	<u>MAXIMUM</u>
UTM: ZONE:	0	0	0
EASTING:	0	0	0
NORTHING:	0	0	0
OR: LATITUDE:	0.00000	69.69410	0.00000
LONGITUDE:	0.00000	135.37899	0.00000

LOCATION:

	<u>GENERAL LOCATION</u>	<u>SITE PLAN</u>
NAME :	NIPTERK P-32	NIPTERK P-32
NUMBER:	1	2
SCALE :	1:0	1:2000
FORMAT:	PAPER COPY	PAPER COPY
ARCHIV:	SPONSOR/CONTRACTOR	SPONSOR/CONTRACTOR
DIG NO:	NA	NA

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS: N/A

DESCRIPTION OF STUDY AND SURVEY DETAILS:  
TYPE : GEOTECHNICAL  
SCOPE: ONE SITE  
LEVEL: SOIL CLASSIFICATION AND STRATIGRAPHY

SIZE :                      8 BHs, 5 CHs, 13 CPTs  
SURVEY PATTERN: IRREGULAR  
SURVEY SPACING: IRREGULAR  
SEASON: WINTER                                      PROGRAM LENGTH: JAN 3-15

EQUIPMENT : CME 750 DRILL WITH HOLLOW STEM AUGER AND ROTARY IN SOIL, CORING IN ICE

PENETRATION: 14.3M TO 21.6M (CLAY, SAND AND PEA GRAVEL AT 20.8M)

RESOLUTION : SOIL - GOOD

INFORMATION ON SAMPLES OR SURVEY RECORDS:  
RATE : SELECTED DEPTHS  
QUALITY: POOR FOR ICE, GOOD FOR SOIL  
TYPE : CORE IN ICE, SPLIT SPOON AND TT IN SOIL, PORE WATER  
SIZE : 2 CORE, 9 TT, 12 SPLIT SPOON

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:  
INTERP : SOIL CLASSIFICATION AND STRATIGRAPHY  
REPORT : GEOTECHNICAL DATA, FORMAL REPORT  
DISTRIB: SPONSOR/CONTRACTOR  
OTHER :

ARCHIVING OF INFORMATION:  
REPORT : SPONSOR/CONTRACTOR  
DATA : SC

DATA COMPILATION AND UPDATING:  
COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/04                      COMPILATION PROJECT NO.: 0306-34693  
UPDATED BY :  
DATE :                                      UPDATE PROJECT NO.:



STUDY NUMBER: GSC75SBFT MONTH: 0 YEAR: 1975

<u>COORDINATES :</u>	<u>MINIMUM</u>	<u>CENTRE</u>	<u>MAXIMUM</u>
UTM: ZONE:	0	0	0
EASTING:	0	0	0
NORTHING:	0	0	0
OR: LATITUDE:	0.00000	0.00000	0.00000
LONGITUDE:	0.00000	0.00000	0.00000

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/11 COMPILATION PROJECT NO.: 0306-34693  
UPDATED BY :  
DATE : UPDATE PROJECT NO.:

=====

STUDY NUMBER: GSC82BFT                      MONTH: 0    YEAR: 1982

<u>COORDINATES :</u>	<u>MINIMUM</u>	<u>CENTRE</u>	<u>MAXIMUM</u>
UTM: ZONE:	0	0	0
EASTING:	0	0	0
NORTHING:	0	0	0
OR: LATITUDE:	0.00000	0.00000	0.00000
LONGITUDE:	0.00000	0.00000	0.00000

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/11 COMPILATION PROJECT NO.: 0306-34693  
UPDATED BY :  
DATE : UPDATE PROJECT NO.:

**STUDY NUMBER: GSC84BFT**

MONTH: 0      YEAR: 1984

**JOB NO : MR NO 38 CONTACT: MR. STEVE BLASCO**

**CONTRACTOR : GEOLOGICAL SURVEY OF CANADA**

**JOB NO : MISC. RPT NO. 38 CONTACT: MR. STEVE BLASCO**

**REPORT TITLE: MARINE SCIENCE ATLAS OF THE BEAUFORT SEA, SEDIMENT MISC REPORT NO. 38**

<u>COORDINATES :</u>	<u>MINIMUM</u>	<u>CENTRE</u>	<u>MAXIMUM</u>
UTM: ZONE:	0	0	0
EASTING:	0	0	0
NORTHING:	0	0	0
OR: LATITUDE:	0.00000	0.00000	0.00000
LONGITUDE:	0.00000	0.00000	0.00000

**LOCATION:**

### GENERAL LOCATION

## SITE PLAN

**NAME : BEAUFORT SEA**

**NUMBER:**

SCALE : 1:0 1:

**FORMAT:**

**ARCHIV:**

DIG NO: NA NA

**SOURCE NUMBER(S):**

**SURVEY LINES / LOCATION DETAILS: N/A**

**DESCRIPTION OF STUDY AND SURVEY DETAILS:**

**TYPE : GEOLOGICAL**

**SCOPE: REGIONAL**

**LEVEL: NA**

SIZE : NA

**SURVEY PATTERN:** NA

**SURVEY SPACING:** NA

SEASON: NA PROGRAM LENGTH: NA

EQUIPMENT : NA

**PENETRATION: NA**

RESOLUTION : NA

**INFORMATION ON SAMPLES OR SURVEY RECORDS:**

**RATE : NA**

QUALITY: NA

**TYPE : NA**

**SIZE : NA**

**LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:**

### INTERP : SOIL TYPE DISTRIBUTION, CHARACTERISTICS

**REPORT : FORMAL OVERVIEW REPORT**

DISTRIB: SPONSOR/CONTRACTOR

OTHER :

**ARCHIVING OF INFORMATION:**

REPORT : SPONSOR/CONTRACTOR

DATA : SC

**DATA COMPILATION AND UPDATING:**

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.

DATE : 91/03/11      COMPILATION PROJECT NO.: 0306-34693

**UPDATED BY :**

DATE : UPDATE PROJECT NO.:

BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

=====

STUDY NUMBER: GSC87KP                      MONTH: 0      YEAR: 1987

SPONSOR : GEOLOGICAL SURVEY OF CANADA  
JOB NO : OF1770                      CONTACT:  
CONTRACTOR : KEITH PHILPOTT CONSULTING LTD 1987  
JOB NO :                                      CONTACT: K. PHILPOTT  
REPORT TITLE: BEAUFORT SEA COASTAL SEDIMENT STUDY, EVALUATION OF INSHORE WAVE CLIMATE & COASTAL  
SEDIMENT TRANSPORT TECHNIQUE AT KING POINT, YUKON OCT. 1987

<u>COORDINATES :</u>	<u>MINIMUM</u>	<u>CENTRE</u>	<u>MAXIMUM</u>
UTM:    ZONE:	8	0	8
EASTING:	380000	0	384125
NORTHING:	7667000	0	7670000
OR: LATITUDE:	0.00000	0.00000	0.00000
LONGITUDE:	0.00000	0.00000	0.00000

LOCATION:

	<u>GENERAL LOCATION</u>	<u>SITE PLAN</u>
NAME :	BEAUFORT SEA	KING POINT, YK
NUMBER:	1.1	1.6
SCALE :	1:2632000	1:37500
FORMAT:	PAPER COPY	PAPER COPY
ARCHIV:	SPONSOR/CONTRACTOR	SPONSOR/CONTRACTOR
DIG NO:	NA	NA

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS:

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : GEOTECHNICAL  
SCOPE: REGIONAL  
LEVEL: FIELD PROGRAM, COMPUTER MODELLING

SIZE :                      17 PROFILE LINES ALONG BEACH  
SURVEY PATTERN:      RADIAL FROM KING POINT  
SURVEY SPACING:      IRREGULAR  
SEASON: SUMMER                      PROGRAM LENGTH: NA

EQUIPMENT : HAND COLLECTED

PENETRATION: LIKELY <0.3M

RESOLUTION : UNKNOWN

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : SURFICIAL SAMPLES  
QUALITY: UNKNOWN-POOR  
TYPE : SUSPENDED SEDIMENT, BOTTOM SEDIMENT (BEACH & NEAR SHORE)  
SIZE : 16 S.S.

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : EVALUATE INSHORE WAVE CLIMATE, COASTAL SEDIMENT TRANSPORT MODELLING  
REPORT : FORMAL GEOTECHNICAL  
DISTRIB: SPONSOR/CONTRACTOR  
OTHER : GSC OF1259

ARCHIVING OF INFORMATION:

REPORT : SPONSOR/CONTRACTOR/GSC  
DATA : SC

DATA COMPILATION AND UPDATING:

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/04      COMPILATION PROJECT NO.: 0306-34693  
UPDATED BY :  
DATE :                      UPDATE PROJECT NO.:



BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

=====

STUDY NUMBER: GSC87SBFT                      MONTH: 0      YEAR: 1986

SPONSOR : GEOLOGICAL SURVEY OF CANADA  
JOB NO : OF1826                      CONTACT:  
CONTRACTOR : DOBROCKY SATECH LTD.  
JOB NO : 1-1155-1                      CONTACT: RICHARD GILLIE  
REPORT TITLE: BEAUFORT SEA COASTAL MORPHOLOGY STUDY MARCH 1987

<u>COORDINATES :</u>	<u>MINIMUM</u>	<u>CENTRE</u>	<u>MAXIMUM</u>
UTM:    ZONE:	0	0	0
EASTING:	0	0	0
NORTHING:	0	0	0
OR: LATITUDE:	69.00000	0.00000	70.25000
LONGITUDE:	128.00000	0.00000	142.00000

LOCATION:

<u>GENERAL LOCATION</u>	<u>SITE PLAN</u>
NAME : BEAUFORT SEA COAST	

NUMBER: 2.1  
SCALE : 1:2128000                      1:  
FORMAT: PAPER COPY  
ARCHIV: SPONSOR/CONTRACTOR  
DIG NO: NA

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS:

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : GEOLOGICAL  
SCOPE: 22 SITES  
LEVEL: DELINEATION

SIZE :                      40 BEACH PROFILES,10 SITES  
SURVEY PATTERN:    NA  
SURVEY SPACING:    NA  
SEASON: SUMMER                      PROGRAM LENGTH: JULY 13-27,1986

EQUIPMENT : SURVEY LEVEL,TAPE & ROD,BRUNTON COMPASS

PENETRATION: N/A

RESOLUTION : GOOD +1.5M MSL

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : N/A  
QUALITY: NA  
TYPE : NA  
SIZE : N/A

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : CHANGES IN COASTAL POSITION/EROSION-PROFILES  
REPORT : FORMAL GEOTECHNICAL  
DISTRIB: SPONSOR/CONTRACTOR  
OTHER : OF1770

ARCHIVING OF INFORMATION:

REPORT : SPONSOR/CONTRACTOR  
DATA : FIELD SURVEY NOTES,BEACH PROFILE DATA AT AGC

DATA COMPILATION AND UPDATING:

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/14                      COMPILATION PROJECT NO.: 0306-34693  
UPDATED BY :  
DATE :                      UPDATE PROJECT NO.:

BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

\*\*\*\*\*  
STUDY NUMBER: G-82-004                      MONTH: 8      YEAR: 1982

SPONSOR : GULF CANADA RESOURCES LTD.  
JOB NO :                      CONTACT: MR. CHRIS GRAHAM  
CONTRACTOR : EBA Engineering Consultants Ltd.  
JOB NO : 101-3659              CONTACT: MR. KEVIN JONES  
REPORT TITLE: 1982 OFFSHORE GEOTECHNICAL SITE INVESTIGATION, NORTH UKALERK

<u>COORDINATES :</u>	<u>MINIMUM</u>	<u>CENTRE</u>	<u>MAXIMUM</u>
UTM:    ZONE:	8	0	8
EASTING:	563900	0	584000
NORTHING:	7773000	0	7788100
OR: LATITUDE:	0.00000		0.00000
LONGITUDE:	0.00000	0.00000	0.00000

LOCATION:

	<u>GENERAL LOCATION</u>	<u>SITE PLAN</u>
NAME :	Ukalerk	
NUMBER: 1.2	1.2	
SCALE : 1:2000000	1:2000000, 100000	
FORMAT:		
ARCHIV:		
DIG NO:		

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS:

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : geotechnical  
SCOPE: regional  
LEVEL: delineation

SIZE :                      27 BHs  
SURVEY PATTERN:    random  
SURVEY SPACING:    random  
SEASON: summer                      PROGRAM LENGTH:

EQUIPMENT : Simco 5000 WS (wireline) and Vibrocore

PENETRATION: 1.2-6.9-9.7m

RESOLUTION : fair to good

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : 1.0m intermittent and continuous  
QUALITY: disturbed - stratigraphy intact  
TYPE : sonic casing 10.0m long, thin-walled tubes, SPT  
SIZE : 36 tubes, 171 vibrocore

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : soil classification  
REPORT : formal borrow evaluation  
DISTRIB: sponsor/contractor  
OTHER :

ARCHIVING OF INFORMATION:

REPORT : SPONSOR/CONTRACTOR  
DATA : sponsor/contractor

DATA COMPILATION AND UPDATING:

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 88/03                      COMPILATION PROJECT NO.: 0306-34413  
UPDATED BY : EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/27                      UPDATE PROJECT NO.: 0306-34693

BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

\*\*\*\*\*  
STUDY NUMBER: G-82-006      MONTH: 9      YEAR: 1982

SPONSOR : GULF CANADA RESOURCES LTD.  
JOB NO :      CONTACT: MR. CHRIS GRAHAM  
CONTRACTOR : EBA Engineering Consultants Ltd.  
JOB NO : 101-3686      CONTACT: MR. KEVIN JONES  
REPORT TITLE: 1982 OFFSHORE GEOTECHNICAL SITE INVESTIGATION, ISSERK BORROW

<u>COORDINATES :</u>	<u>MINIMUM</u>	<u>CENTRE</u>	<u>MAXIMUM</u>
UTM:    ZONE:	8	0	8
EASTING:	526500	0	527500
NORTHING:	7759500	0	7762000
OR: LATITUDE:	0.00000		0.00000
LONGITUDE:	0.00000	0.00000	0.00000

LOCATION:

	<u>GENERAL LOCATION</u>	<u>SITE PLAN</u>
NAME :		Isserk
NUMBER: 1,2		1,2
SCALE : 1:2272727		1:2272727,10000
FORMAT:		
ARCHIV:		
DIG NO:		

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS:

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : geotechnical  
SCOPE: 1 site  
LEVEL: delineation

SIZE :            3 BHs  
SURVEY PATTERN: random  
SURVEY SPACING: random  
SEASON: fall      PROGRAM LENGTH:

EQUIPMENT : Sonic 5000 drill

PENETRATION: 6.7-9.2-11.0m

RESOLUTION : good

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : 1.0-1.5m intervals  
QUALITY: disturbed - stratigraphy intact  
TYPE : 63mm thin-walled tubes  
SIZE : 20 tubes

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : soil classification  
REPORT : formal geotechnical report  
DISTRIB: sponsor/contractor  
OTHER :

ARCHIVING OF INFORMATION:

REPORT : SPONSOR/CONTRACTOR  
DATA : sponsor/contractor

DATA COMPILATION AND UPDATING:

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 88/03      COMPILATION PROJECT NO.: 0306-34413  
UPDATED BY : EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/27      UPDATE PROJECT NO.: 0306-34693

STUDY NUMBER: G-82-009                      MONTH: 9    YEAR: 1982

**MONTH: 9      YEAR: 1982**

REPORT TITLE: 1982 OFFSHORE GEOTECHNICAL SITE INVESTIGATION, HERSCHEL BORROW SITE, BEAUFORT SEA

<u>COORDINATES :</u>		<u>MINIMUM</u>	<u>CENTRE</u>	<u>MAXIMUM</u>
UTM:	ZONE:	8	0	8
	EASTING:	562100	0	596300
	NORTHING:	7710000	0	7729800
OR:	LATITUDE:	0.00000		0.00000
	LONGITUDE:	0.00000	0.00000	0.00000

## SITE PLAN

**SOURCE NUMBER(S):**

**SURVEY LINES / LOCATION DETAILS:**

LEVEL: geophysical

**PROGRAM LENGTH:**

**RESOLUTION : good**

**SIZE : 65 tubes, 8 SPT, 31 cores**

**OTHER :**

**DATA : sponsor/contractors**

**DATE : 91/03/27 UPDATE PROJECT NO.: 0306-34693**

BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

STUDY NUMBER: G-82-010 MONTH: 9 YEAR: 1982

SPONSOR : GULF CANADA RESOURCES LTD.  
JOB NO : CONTACT: MR. CHRIS GRAHAM  
CONTRACTOR : EBA Engineering Consultants Ltd. and McClelland Engineers, Inc.  
JOB NO : 101-3658 CONTACT: MR. KEVIN JONES  
REPORT TITLE: 1982 OFFSHORE GEOTECHNICAL SITE INVESTIGATION, KRINGALIK

COORDINATES :	MINIMUM	CENTRE	MAXIMUM
UTM: ZONE:	8	0	8
EASTING:	443100	0	444450
NORTHING:	7769100	0	7769200
OR: LATITUDE:	0.00000		0.00000
LONGITUDE:	0.00000	0.00000	0.00000

LOCATION:

	GENERAL LOCATION	SITE PLAN
NAME :	Kringalik	
NUMBER: 1,2	1,2	
SCALE : 1:2272727	1:2272727,250	
FORMAT:		
ARCHIV:		
DIG NO:		

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS:

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : geotechnical  
SCOPE: 1 site  
LEVEL: foundation parameters, geologic hazards

SIZE : 1 BH, 6 in-situ testholes  
SURVEY PATTERN: random  
SURVEY SPACING: random  
SEASON: summer PROGRAM LENGTH:

EQUIPMENT : Simco 5000 WS (wireline)

PENETRATION: BH:31.0m, PH:7.0-33.0-71.0m

RESOLUTION : good

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : 1.5m intervals  
QUALITY: disturbed - stratigraphy intact  
TYPE : 63mm and 76mm thin-walled tubes, piston, SPT  
SIZE : 17 tubes, 2 piston, 3 SPT

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : soil classification, strength and consolidation  
REPORT : formal geotechnical evaluation  
DISTRIB: sponsor/contractors  
OTHER :

ARCHIVING OF INFORMATION:

REPORT : SPONSOR/CONTRACTOR  
DATA : sponsor/contractors

DATA COMPILATION AND UPDATING:

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 88/03 COMPILATION PROJECT NO.: 0306-34413  
UPDATED BY : EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/27 UPDATE PROJECT NO.: 0306-34693

**STUDY NUMBER:** GULF88AK1      **MONTH:** 4      **YEAR:** 1988

SPONSOR : GULF CANADA RESOURCES LTD.  
JOB NO : CONTACT: MR. BRIAN ROGERS  
CONTRACTOR : EBA ENGINEERING CONSULTANTS LTD.  
JOB NO : 0101-4809 CONTACT: MR. KEVIN JONES  
REPORT TITLE: 1988 OFFSHORE GEOTECHNICAL SITE INVESTIGATION, PROPOSED NORTH POINT PIPELINE  
 ROUTE, BEAUFORT SEA, 1988 JUNE

LOCATION:

NUMBER: 1	2
SCALE : 1:2205900	1:88810
FORMAT: PAPER COPY	PAPER COPY
ARCHIV: SPONSOR/CONTRACTOR	SPONSOR/CONTRACTOR
DIG NO: NA	NA

**SURVEY LINES / LOCATION DETAILS:**

SIZE : 18 BHS,42 CPTS,APPROXIMATELY 26 KM  
SURVEY PATTERN: LINE,(MAIN,ALT, LATERAL PROPOSED ROUTES)  
SURVEY SPACING: 760M TO 2840M FOR BHS,750M FOR CPTS  
SEASON: SPRING PROGRAM LENGTH: 14 DAYS,APRIL 5-19

**RESOLUTION : GOOD**

RATE : 1.5M TO 10M DEPTH, THEN 3M FOR BHs; CONTINUOUS FOR CORE  
 QUALITY: GOOD  
 TYPE : THIN & HEAVY WALLED TUBES, SPLIT SPOON, CORE, POREWATER, SEAWATER  
 SIZE : 197 DISTURBED, 18 TUBE, 70 GAS, 55 CORE

INTERP : SOIL CLASSIFICATION,STRATIGRAPHY,PROPERTIES,PERMAFROST  
REPORT : PRELIMINARY GEOTECHNICAL DATA,FORMAL REPORT  
DISTRIB: SPONSOR/CONTRACTOR  
OTHER : EBA #0101-4912B,EBA 0101-4724,0101-4912D,MCGREGOR 88-27(PO3/507)

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 89/03 COMPILATION PROJECT NO.: 0305-34475  
UPDATED BY : EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/04 UPDATE PROJECT NO.: 0306-34693

BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

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STUDY NUMBER: GULF88AK2                      MONTH: 8      YEAR: 1988

SPONSOR : GULF CANADA RESOURCES LTD.  
JOB NO :    CONTACT: MR. CHRIS GRAHAM  
CONTRACTOR : EBA ENGINEERING CONSULTANTS LTD.  
JOB NO : 0101-4912E                      CONTACT: MR. KEVIN JONES  
REPORT TITLE: SUMMER 1988 OFFSHORE GEOTECHNICAL SITE INVESTIGATION, ISSIGAK, MINUK, AKPAK PLATEAU  
AND NIPTERK BORROW SITES, BEAUFORT SEA 1989 FEBRUARY

<u>COORDINATES</u> :	<u>MINIMUM</u>	<u>CENTRE</u>	<u>MAXIMUM</u>
UTM:    ZONE:	8	8	8
EASTING:	534003	539690	545378
NORTHING:	7748163	7758649	7769134
OR: LATITUDE:	0.00000	0.00000	0.00000
LONGITUDE:	0.00000	0.00000	0.00000

LOCATION:

	<u>GENERAL LOCATION</u>	<u>SITE PLAN</u>
NAME :	AKPAK PLATEAU (PIPELINE ROUTE)	AKPAK PLATEAU

NUMBER: 1	2
SCALE : 1:2239000	1:2027000
FORMAT: PAPER COPY	PAPER COPY
ARCHIV: SPONSOR/CONTRACTOR	SPONSOR/CONTRACTOR
DIG NO: NA	NA

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS:

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : GEOTECHNICAL  
SCOPE: ONE SITE  
LEVEL: DELINEATION, SOIL CLASSIFICATION

SIZE :                      57 GCs  
SURVEY PATTERN:    LINE  
SURVEY SPACING:    IRREGULAR  
SEASON: SUMMER                      PROGRAM LENGTH: 2 DAYS, AUG 8, 20

EQUIPMENT : SIMCO 5000 WS TOP DRIVE ROTARY DRILL, WIRELINE

PENETRATION: 0.4M(CLAY, SAND, CLAY); UNITS I, II, III

RESOLUTION : GOOD

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : SURFICIAL SAMPLES  
QUALITY: NA  
TYPE : GCs  
SIZE : 57 GCs

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : SOIL CLASSIFICATION  
REPORT : GEOTECHNICAL DATA, FORMAL REPORT  
DISTRIB: SPONSOR/CONTRACTOR  
OTHER : EBA 0101-4912B(DESCRIPTION & REPORTING FOR SITE INVESTIGATION COVERED IN REPORT)

ARCHIVING OF INFORMATION:

REPORT : SPONSOR/CONTRACTOR  
DATA : SC

DATA COMPILATION AND UPDATING:

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 89/03                      COMPILATION PROJECT NO.: 0305-34475  
UPDATED BY : EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/04                      UPDATE PROJECT NO.: 0306-34693

## STUDY NUMBER: GULF88AK3 MONTH: 8 YEAR: 1988

<u>COORDINATES :</u>		<u>MINIMUM</u>	<u>CENTRE</u>	<u>MAXIMUM</u>
UTM:	ZONE:	8	8	8
	EASTING:	534003	539690	545378
	NORTHING:	7748163	7758649	7769134
OR:	LATITUDE:	0.00000	0.00000	0.00000
	LONGITUDE:	0.00000	0.00000	0.00000

DATE : 91/03/04 UPDATE PROJECT NO.: 0306-34693



BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

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STUDY NUMBER: GULF88AMLK      MONTH: 8      YEAR: 1988

SPONSOR : GULF CANADA RESOURCES LTD.  
JOB NO : CONTACT: MR. MIKE HARDY  
CONTRACTOR : EBA ENGINEERING CONSULTANTS LTD.  
JOB NO : 0101-4912D      CONTACT: MR. KEVIN JONES  
REPORT TITLE: 1988 OFFSHORE GEOTECHNICAL SITE INVESTIGATION, AMAULIGAK B-46 & D-32, BEAUFORT  
SEA, CANADA, 1989 JANUARY

<u>COORDINATES</u> :	<u>MINIMUM</u>	<u>CENTRE</u>	<u>MAXIMUM</u>
UTM:    ZONE:	8	8	8
EASTING:	548783	549295	549806
NORTHING:	7768397	7772109	7775822
OR: LATITUDE:	0.00000	0.00000	0.00000
LONGITUDE:	0.00000	0.00000	0.00000

LOCATION:

	<u>GENERAL LOCATION</u>	<u>SITE PLAN</u>
NAME :	AMAULIGAK B-46 & D-32	AMAULIGAK B-46 & D-32
NUMBER:	1	2
SCALE :	1:2205900	1:250
FORMAT:	PAPER COPY	PAPER COPY
ARCHIV:	SPONSOR/CONTRACTOR	SPONSOR/CONTRACTOR
DIG NO:	NA	NA

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS:

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : GEOTECHNICAL  
SCOPE: 2 SITES  
LEVEL: SOIL STRATIGRAPHY, CLASSIFICATION, PROPERTIES, SHALLOW GEOLOGIC HAZARDS

SIZE :            2 BHs, 2 CPTs, 2 PMTs  
SURVEY PATTERN: IRREGULAR  
SURVEY SPACING: WITHIN APPROXIMATELY 12M BTWN BHs AT EACH SITE  
SEASON: SUMMER                      PROGRAM LENGTH: 4 DAYS, AUG 14-17

EQUIPMENT : CPT PROBE, SINCO 5000 WS TOP DRIVE ROTARY DRILL, WIRELINE

PENETRATION: 46.4M TO 60.2M FOR BHs, 14.3M TO 54.5M FOR CPTs, 10M TO 42.3M FOR  
PMTs (CLAY, SAND, CLAY-UNITS I, II, III)  
RESOLUTION : GOOD

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : 1.5M TO 10M DEPTH, THEN 3M FOR BHs, CONTINUOUS FOR CPTs  
QUALITY: GOOD  
TYPE : THIN & HEAVY WALLED TUBES, POREWATER  
SIZE : 28 TT, 18 HT, 10 POREWATER

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : SOIL CLASSIFICATION, PROPERTIES, STRATIGRAPHY  
REPORT : GEOTECHNICAL DATA, FORMAL REPORT  
DISTRIB: SPONSOR/CONTRACTOR  
OTHER : EBA 0101-4724, 0101-4809, 4912B, 3685, 3862, 0101C-4141, 4118, 4417, 4416, GOLDER 1981

ARCHIVING OF INFORMATION:

REPORT : SPONSOR/CONTRACTOR  
DATA : SC

DATA COMPILATION AND UPDATING:

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 89/03      COMPILATION PROJECT NO.: 0305-34475  
UPDATED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/04      UPDATE PROJECT NO.: 0306-34693

BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

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STUDY NUMBER: GULF88EK                      MONTH: 9      YEAR: 1988

SPONSOR : GULF CANADA RESOURCES LTD.  
JOB NO :                                      CONTACT: MR. BRIAN ROGERS  
CONTRACTOR : EBA ENGINEERING CONSULTANTS LTD.  
JOB NO : 0101-4912E                      CONTACT: MR. KEVIN JONES  
REPORT TITLE: SUMMER 1988 OFFSHORE GEOTECHNICAL SITE INVESTIGATION, ISSIGAK, MINUK, AKPAK PLATEAU  
AND NIPTERK BORROW SITES, BEAUFORT SEA, 1989 FEBRUARY

<u>COORDINATES</u> :	<u>MINIMUM</u>	<u>CENTRE</u>	<u>MAXIMUM</u>
UTM:    ZONE:	0	0	0
EASTING:	0	0	0
NORTHING:	0	0	0
OR: LATITUDE:	0.00000	0.00000	0.00000
LONGITUDE:	0.00000	0.00000	0.00000

LOCATION:

	<u>GENERAL LOCATION</u>	<u>SITE PLAN</u>
NAME :	ERKSAK	
NUMBER:	2	
SCALE :	1:2239000	1:
FORMAT:	PAPER COPY	
ARCHIV:	SPONSOR/CONTRACTOR	
DIG NO:	NA	NA

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS:

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : GEOTECHNICAL  
SCOPE: ONE SITE  
LEVEL: TRY NEW CLAMSHELL SAMPLER

SIZE :                      3 CSs  
SURVEY PATTERN: UNKNOWN  
SURVEY SPACING: UNKNOWN  
SEASON: FALL                      PROGRAM LENGTH: 1 DAY, SEPT 1

EQUIPMENT : SIMCO 5000 WS TOP DRIVE ROTARY DRILL, WIRELINE

PENETRATION: UNKNOWN

RESOLUTION : UNKNOWN

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : SURFICIAL SAMPLES  
QUALITY: GOOD  
TYPE : CLAM SHELL  
SIZE : 3 CLAM SHELL (CS)

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : SOIL CLASSIFICATION  
REPORT : GEOTECHNICAL DATA  
DISTRIB: SPONSOR/CONTRACTOR  
OTHER :

ARCHIVING OF INFORMATION:

REPORT : SPONSOR/CONTRACTOR  
DATA : SC

DATA COMPILATION AND UPDATING:

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 89/03                      COMPILATION PROJECT NO.: 0305-34475  
UPDATED BY : EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/04                      UPDATE PROJECT NO.: 0306-34693

1

BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

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STUDY NUMBER: GULF88FNR                      MONTH: 8      YEAR: 1988

SPONSOR : GULF CANADA RESOURCES LTD.  
JOB NO :    CONTACT: MR. MIKE HARDY  
CONTRACTOR : EBA ENGINEERING CONSULTANTS LTD.  
JOB NO : 0101-4912C                      CONTACT: MR. KEVIN JONES  
REPORT TITLE: 1988 OFFSHORE GEOTECHNICAL SITE INVESTIGATION,NERLERK BERM B-67, BEAUFORT SEA,  
CANADA 1989 JANUARY

<u>COORDINATES</u> :	<u>MINIMUM</u>	<u>CENTRE</u>	<u>MAXIMUM</u>
UTM:    ZONE:	8	8	8
EASTING:	562509	562623	562737
NORTHING:	7814108	7814539	7814969
OR: LATITUDE:	0.00000	0.00000	0.00000
LONGITUDE:	0.00000	0.00000	0.00000

LOCATION:

	<u>GENERAL LOCATION</u>	<u>SITE PLAN</u>
NAME :	NERLERK B-67	NERLERK B-67
NUMBER: 1		2
SCALE : 1:2205900		1:5000
FORMAT: PAPER COPY		PAPER COPY
ARCHIV: SPONSOR/CONTRACTOR		SPONSOR/CONTRACTOR
DIG NO: NA		NA

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS:

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : GEOTECHNICAL  
SCOPE: ONE SITE  
LEVEL: DELINEATION,SOIL CLASSIFICATION

SIZE :                      17 CPTs,3 PMTs,8 BHs  
SURVEY PATTERN: IRREGULAR GRID AND LINE  
SURVEY SPACING: IRREGULAR  
SEASON: SUMMER                      PROGRAM LENGTH: 8 DAYS,AUG 17-25

EQUIPMENT : CPT PROBE,SIMCO 5000 WS TOP DRIVE ROTARY DRILL,WIRELINE

PENETRATION: 1.8M TO 23.0M FOR CPTs,3.7M TO 16.0M FOR PMTs,1.4M TO 28.2M FOR BHs

RESOLUTION : GOOD

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : 1.5M TO 3.0M FOR BHs,CONTINUOUS FOR CPTs  
QUALITY: GOOD  
TYPE : THIN & HEAVY WALLED TUBES  
SIZE : 1

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : SOIL CLASSIFICATION,STRATIGRAPHY,SOIL PROPERTIES  
REPORT : GEOTECHNICAL DATA, FORMAL REPORT  
DISTRIB: SPONSOR/CONTRACTOR  
OTHER : BEEN ET AL,1987 CAN. GT JRNL 24,P170-8,SLADEN ET AL,1985&87CAN GT JRNL 22,P579-88 & 24  
P179-85

ARCHIVING OF INFORMATION:

REPORT : SPONSOR/CONTRACTOR  
DATA : SC

DATA COMPILATION AND UPDATING:

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 89/03                      COMPILATION PROJECT NO.: 0305-34475  
UPDATED BY : EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/04                      UPDATE PROJECT NO.: 0306-34693

BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

=====

STUDY NUMBER: GULF88HB                      MONTH: 8      YEAR: 1988

SPONSOR : GULF CANADA RESOURCES LTD.  
JOB NO :                      CONTACT: MR. CHRIS GRAHAM  
CONTRACTOR : EBA ENGINEERING CONSULTANTS LTD.  
JOB NO : 0101-4912A                      CONTACT: MR. KEVIN JONES  
REPORT TITLE: SUMMER 1988 OFFSHORE SITE INVESTIGATION PROPOSED MOLIKPAQ SET DOWN LOCATION  
HERSCHEL BASIN, BEAUFORT SEA, 1988 NOVEMBER

<u>COORDINATES</u> :	<u>MINIMUM</u>	<u>CENTRE</u>	<u>MAXIMUM</u>
UTM: ZONE:	0	0	0
EASTING:	0	0	0
NORTHING:	0	0	0
OR: LATITUDE:	69.41250	0.00000	69.56333
LONGITUDE:	139.89000	0.00000	138.16500

<u>LOCATION:</u>	<u>GENERAL LOCATION</u>	<u>SITE PLAN</u>
NAME :	HERSCHEL BASIN	HERSCHEL BASIN
NUMBER:	1	2
SCALE :	1:2205900	1:204100
FORMAT:	PAPER COPY	PAPER COPY
ARCHIV:	SPONSOR/CONTRACTOR	SPONSOR/CONTRACTOR
DIG NO:	NA	NA

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS: GCS OBTAINED ALONG 10M WATER DEPTH CONTOUR WHILE SAILING FROM  
SIMPSON PT TO ROLAND BAY AND AT ROLAND BAY (18 GCS)

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : GEOTECHNICAL  
SCOPE: MANY SITES  
LEVEL: SOIL CLASSIFICATION, STRATIGRAPHY

SIZE :                      1 BH, 34 GCS, 3 CPTS  
SURVEY PATTERN: LINE  
SURVEY SPACING: UNKNOWN  
SEASON: SUMMER/FALL                      PROGRAM LENGTH: 2 DAYS, AUG 28, 29

EQUIPMENT : CPT PROBE, SIMCO 5000WS TOP DRIVE ROTARY DRILL, DRAG BITS, CORE BARREL,  
WIRELINE, PILICON HAND VANE  
PENETRATION: 9.7M FOR BHs, 10M TO 13M FOR CPTs, .30M TO .87M FOR GCs

RESOLUTION : GOOD

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : 1.0M TO 1.5M  
QUALITY: GOOD  
TYPE : THIN & HEAVY WALLED TUBES, HEAVY WALL GC  
SIZE : 6 THIN WALLED TUBES, 29 GCs, 4 HEAVY WALL TUBES

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : SOIL CLASSIFICATION, PROPERTIES, STRATIGRAPHY  
REPORT : GEOTECHNICAL DATA, FORMAL REPORT  
DISTRIB: SPONSOR/CONTRACTOR  
OTHER : BATH SURVEY

ARCHIVING OF INFORMATION:

REPORT : SPONSOR/CONTRACTOR  
DATA : SC

DATA COMPILATION AND UPDATING:

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 89/03                      COMPILATION PROJECT NO.: 0305-34475  
UPDATED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/04                      UPDATE PROJECT NO.: 0306-34693

BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

=====

STUDY NUMBER: GULF881SGK      MONTH: 8      YEAR: 1988

SPONSOR : GULF CANADA RESOURCES LTD.  
JOB NO :      CONTACT: MR. CHRIS GRAHAM  
CONTRACTOR : EBA ENGINEERING CONSULTANTS LTD.  
JOB NO : 0101-4912E      CONTACT: MR. KEVIN JONES  
REPORT TITLE: SUMMER 1988 OFFSHORE GEOTECHNICAL SITE INVESTIGATION, ISSIGAK, MINUK, AKPAK PLATEAU  
AND NIPTERK BORROW SITES, BEAUFORT SEA, 1989 FEBRUARY

<u>COORDINATES</u> :	<u>MINIMUM</u>	<u>CENTRE</u>	<u>MAXIMUM</u>
UTM:    ZONE:	8	8	8
EASTING:	459453	459903	460354
NORTHING:	7732154	7732733	7733312
OR:    LATITUDE:	69.69611	0.00000	69.70661
LONGITUDE:	136.02418	0.00000	136.00471

LOCATION:

	<u>GENERAL LOCATION</u>	<u>SITE PLAN</u>
NAME :	ISSIGAK	ISSIGAK
NUMBER:	1	E-1
SCALE :	1:2239000	1:7500
FORMAT:	PAPER COPY	PAPER COPY
ARCHIV:	SPONSOR/CONTRACTOR	SPONSOR/CONTRACTOR/CANADIAN ENGINEE
DIG NO:	NA	NA

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS: GC LINE FROM SW TO NE, BHs CLOSE TO SW END

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : GEOTECHNICAL  
SCOPE: ONE SITE  
LEVEL: DELINEATION, SOIL CLASSIFICATION

SIZE :            5 BHs, 30 GCs (NO RECOVERY)  
SURVEY PATTERN: IRREGULAR LINE FOR GC, IRREGULAR GRID BH  
SURVEY SPACING: IRREGULAR GENERALLY <150M  
SEASON: FALL                      PROGRAM LENGTH: 1 DAY, AUG 26

EQUIPMENT : SIMCO 5000 WS TOP DRIVE ROTARY DRILL, WIRELINE

PENETRATION: 3.7M TO 4.3M (GRAVEL & SAND, CLAY) IN BHs

RESOLUTION : GOOD

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : 1M IN BHs  
QUALITY: GOOD FOR BHs, POOR (NO RECOVERY) FOR GCs  
TYPE : HT  
SIZE : 24 TUBES

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : SOIL CLASSIFICATION  
REPORT : GEOTECHNICAL DATA, FORMAL REPORT  
DISTRIB: SPONSOR/CONTRACTOR  
OTHER :

ARCHIVING OF INFORMATION:

REPORT : SPONSOR/CONTRACTOR  
DATA : SC/CANADIAN ENGINEERING SERVICES LTD. (LOCATIONS)

DATA COMPILATION AND UPDATING:

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 89/03      COMPILATION PROJECT NO.: 0305-34475  
UPDATED BY : EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/04      UPDATE PROJECT NO.: 0306-34693

BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

=====

STUDY NUMBER: GULF88MK                      MONTH: 8      YEAR: 1988

SPONSOR : GULF CANADA RESOURCES LTD.  
JOB NO :    CONTACT: MR. CHRIS GRAHAM  
CONTRACTOR : EBA ENGINEERING CONSULTANTS LTD.  
JOB NO : 0101-4912E                                      CONTACT: MR. KEVIN JONES  
REPORT TITLE: SUMMER 1988 OFFSHORE GEOTECHNICAL SITE INVESTIGATION, ISSIGAK, MINUK, AKPAK PLATEAU  
AND NIPTERK BORROW SITES, BEAUFORT SEA, 1989 FEBRUARY

<u>COORDINATES</u> :	<u>MINIMUM</u>	<u>CENTRE</u>	<u>MAXIMUM</u>
UTM:    ZONE:	8	8	8
EASTING:	451803	453398	454992
NORTHING:	7735248	7736762	7738275
OR: LATITUDE:	69.72311	0.00000	69.74969
LONGITUDE:	136.16369	0.00000	136.24772

LOCATION:

	<u>GENERAL LOCATION</u>	<u>SITE PLAN</u>
NAME :	MINUK	MINUK
NUMBER:	1	E-3
SCALE :	1:2239000	1:15000
FORMAT:	PAPER COPY	PAPER COPY
ARCHIV:	SPONSOR/CONTRACTOR	SPONSOR/CONTRACTOR/CANADIAN ENGINEE
DIG NO:	NA	NA

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS: GC LINE FROM SE TO NW

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : GEOTECHNICAL  
SCOPE: ONE SITE  
LEVEL: DELINEATION, SOIL CLASSIFICATION

SIZE :                      45 GCs  
SURVEY PATTERN:    LINE  
SURVEY SPACING:    100M APPROX  
SEASON: FALL                                      PROGRAM LENGTH: 1 DAY, AUG 27

EQUIPMENT : SIMCO 5000 WS TOP DRIVE ROTARY DRILL, WIRELINE

PENETRATION: 0.48M TO 0.94M (CLAY)

RESOLUTION : GOOD

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : SURFICIAL SAMPLE  
QUALITY: GOOD WHEN RECOVERED  
TYPE : GCs  
SIZE : 35 GCs

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : SOIL CLASSIFICATION  
REPORT : GEOTECHNICAL DATA, FORMAL REPORT  
DISTRIB: SPONSOR/CONTRACTOR  
OTHER :

ARCHIVING OF INFORMATION:

REPORT : SPONSOR/CONTRACTOR  
DATA : SC/CANADIAN ENGINEERING SERVICES LTD. (LOCATIONS)

DATA COMPILATION AND UPDATING:

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 89/03                      COMPILATION PROJECT NO.: 0305-34475  
UPDATED BY : EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/04                      UPDATE PROJECT NO.: 0306-34693

BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

=====

STUDY NUMBER: GULF88NW                      MONTH: 8      YEAR: 1988

SPONSOR : GULF CANADA RESOURCES LTD.  
JOB NO :                      CONTACT: MR. CHRIS GRAHAM  
CONTRACTOR : EBA ENGINEERING CONSULTANTS LTD.  
JOB NO : 0101-4912E                      CONTACT: MR. KEVIN JONES  
REPORT TITLE: SUMMER 1988 OFFSHORE GEOTECHNICAL SITE INVESTIGATION, ISSIGAK, MINUK, AKPAK PLATEAU  
AND NIPTERK BORROW SITES, BEAUFORT SEA, 1988 FEBRUARY

<u>COORDINATES</u> :	<u>MINIMUM</u>	<u>CENTRE</u>	<u>MAXIMUM</u>
UTM:    ZONE:	8	8	8
EASTING:	465038	0	466491
NORTHING:	7740033	0	7742964
OR: LATITUDE:	69.76773	0.00000	69.79382
LONGITUDE:	135.86819	0.00000	135.90696

LOCATION:

	<u>GENERAL LOCATION</u>	<u>SITE PLAN</u>
NAME :	NIPTERK	NIPTERK WEST
NUMBER:	1	E-4
SCALE :	1:2239000	1:13000
FORMAT:	PAPER COPY	PAPER COPY
ARCHIV:	SPONSOR/CONTRACTOR	SPONSOR/CONTRACTOR/CANADIAN ENGINEE
DIG NO:	NA	NA

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS: GC FROM SE TO NW, BHs IN SOUTH HALF

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : GEOTECHNICAL  
SCOPE: ONE SITE  
LEVEL: DELINEATION, SOIL CLASSIFICATION

SIZE :                      3 BHs, 35 GCs  
SURVEY PATTERN:    LINE  
SURVEY SPACING:    <150M APPROX  
SEASON: FALL                      PROGRAM LENGTH: 1 DAY, AUG 26

EQUIPMENT : SIMCO 5000 WS TOP DRIVE ROTARY DRILL, WIRELINE

PENETRATION: 2.4M TO 4.8M IN BHs, 0.12M TO 0.51M IN GCs (CLAY, SILT, SAND, GRAVEL)

RESOLUTION : GOOD

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : SURFICIAL SAMPLE  
QUALITY: GOOD WHEN RECOVERED  
TYPE : HT  
SIZE : 15 TUBES, 22 GC

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : SOIL CLASSIFICATION  
REPORT : GEOTECHNICAL DATA, FORMAL REPORT  
DISTRIB: SPONSOR/CONTRACTOR  
OTHER :

ARCHIVING OF INFORMATION:

REPORT : SPONSOR/CONTRACTOR  
DATA : SC/CANADIAN ENGINEERING SERVICES LTD. (LOCATIONS)

DATA COMPILATION AND UPDATING:

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 89/03                      COMPILATION PROJECT NO.: 0305-34475  
UPDATED BY : EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/04                      UPDATE PROJECT NO.: 0306-34693

BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

STUDY NUMBER: GULF88NS

MONTH: 8 YEAR: 1988

SPONSOR : GULF CANADA RESOURCES LTD.

JOB NO : CONTACT: MR. CHRIS GRAHAM

CONTRACTOR : EBA ENGINEERING CONSULTANTS LTD.

JOB NO : 0101-4912E CONTACT: MR. KEVIN JONES

REPORT TITLE: SUMMER 1988 OFFSHORE GEOTECHNICAL SITE INVESTIGATION, ISSIGAK, MINUK, AKPAK PLATEAU  
AND NIPTERK BORROW SITES, BEAUFORT SEA 1988 FEBRUARY

COORDINATES :	MINIMUM	CENTRE	MAXIMUM
UTM: ZONE:	8	8	8
EASTING:	463990	0	464697
NORTHING:	7738304	0	7739510
OR: LATITUDE:	69.75189	0.00000	69.76446
LONGITUDE:	135.91446	0.00000	135.93230

LOCATION:

GENERAL LOCATION

SITE PLAN

NAME : NIPTERK

NIPTERK SOUTH

NUMBER: 1

E-2

SCALE : 1:2239000

1:8500

FORMAT: PAPER COPY

PAPER COPY

ARCHIV: SPONSOR/CONTRACTOR

SPONSOR/CONTRACTOR/CANADIAN ENGINEER

DIG NO: NA

NA

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS: GC LINE FROM SW TO NE

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : GEOTECHNICAL

SCOPE: ONE SITE

LEVEL: DELINEATION, SOIL CLASSIFICATION

SIZE : 15 GCs

SURVEY PATTERN: LINE

SURVEY SPACING: 100M APPROX

SEASON: FALL

PROGRAM LENGTH: 1 DAY, AUG 27

EQUIPMENT : SINCO 5000 WS TOP DRIVE ROTARY DRILL, WIRELINE

PENETRATION: 0.18M TO TO 0.40M FOR GCs (LOGS 37-49) (CLAY, SAND, CLAY)

RESOLUTION : GOOD

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : SURFICIAL SAMPLE

QUALITY: GOOD WHEN RECOVERED

TYPE : GC

SIZE : 7 GCs

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : SOIL CLASSIFICATION

REPORT : GEOTECHNICAL DATA, FORMAL REPORT

DISTRIB: SPONSOR/CONTRACTOR

OTHER :

ARCHIVING OF INFORMATION:

REPORT : SPONSOR/CONTRACTOR

DATA : SC/CANADIAN ENGINEERING SERVICES LTD. (LOCATIONS)

DATA COMPILATION AND UPDATING:

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.

DATE : 89/03 COMPILATION PROJECT NO.: 0305-34475

UPDATED BY: EBA ENGINEERING CONSULTANTS LTD.

DATE : 91/03/04 UPDATE PROJECT NO.: 0306-34693



BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

=====

STUDY NUMBER: GULF89ISRK                      MONTH: 9      YEAR: 1989

SPONSOR : GULF CANADA RESOURCES LTD.  
JOB NO :    CONTACT: MR. CHRIS GRAHAM  
CONTRACTOR : GOLDER ASSOCIATES LTD.  
JOB NO : 892-2069B                                      CONTACT: MR. KEN BEEN  
REPORT TITLE: SITE INVESTIGATION FOR ISSERK I-15 SITE, AKPAK PLATEAU, BEAUFORT SEA, 1990 JANUARY

COORDINATES :	MINIMUM	CENTRE	MAXIMUM
UTM:    ZONE:	8	8	8
EASTING:	526840	526867	526897
NORTHING:	7756054	7756087	7756118
OR:    LATITUDE:	0.00000	69.91245	0.00000
LONGITUDE:	0.00000	134.29910	0.00000

LOCATION:

	GENERAL LOCATION	SITE PLAN
NAME : ISSERK		ISSERK I-15
NUMBER: 1		2
SCALE : 1:2400000		1:500
FORMAT: PAPER COPY		PAPER COPY
ARCHIV: SPONSOR/CONTRACTOR		SPONSOR/CONTRACTOR
DIG NO: NA		NA

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS: USED ERKSAK SAND FILL FOR ISLAND

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : GEOTECHNICAL  
SCOPE: ONE SITE  
LEVEL: DELINEATION, SOIL PROPERTIES, CLASSIFICATION

SIZE :                      7 CPTs, 3 BHs, 7 GCs  
SURVEY PATTERN: IRREGULAR  
SURVEY SPACING: IRREGULAR  
SEASON: FALL                                      PROGRAM LENGTH: 10 DAYS, SEPT 23-OCT 3

EQUIPMENT : MODULAR DRILL RIG, DRAG BIT WITH WIRELINE, CPT PROBE, PILICOM VANE, FALL VANE

PENETRATION: 11.1M TO 40M FOR BHs, 5.5M TO 10.0M FOR CPTs, UP TO .23M FOR GC

RESOLUTION : GOOD

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : 1.5M TO 3M FOR BHs, CONTINUOUS FOR CPTs  
QUALITY: GENERALLY GOOD  
TYPE : TT, GRAVITY CORES  
SIZE : 26 TT, 7 GCs

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : SOIL PROPERTIES, CLASSIFICATION, STRATIGRAPHY  
REPORT : FORMAL GEOTECHNICAL  
DISTRIB: SPONSOR/CONTRACTOR/ESSO  
OTHER : GOLDER 892-2069A

ARCHIVING OF INFORMATION:

REPORT : SPONSOR/CONTRACTOR/ESSO  
DATA : SC

DATA COMPILATION AND UPDATING:

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/04      COMPILATION PROJECT NO.: 0306-34693  
UPDATED BY :  
DATE :                      UPDATE PROJECT NO.:

BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

=====

STUDY NUMBER: GULF89SU                      MONTH: 8      YEAR: 1989

SPONSOR : GULF CANADA RESOURCES LTD.  
JOB NO :                                      CONTACT: MR. MIKE HARDY  
CONTRACTOR : EBA ENGINEERING CONSULTANTS LTD.  
JOB NO : 0101-10168                      CONTACT: MR. KEVIN JONES  
REPORT TITLE: 1989 OFFSHORE GEOTECHNICAL SITE INVESTIGATION, SOUTH UKALERK, BEAUFORT SEA

<u>COORDINATES :</u>	<u>MINIMUM</u>	<u>CENTRE</u>	<u>MAXIMUM</u>
UTM: ZONE:	8	8	8
EASTING:	578531	578608	578684
NORTHING:	7777750	7777891	7778032
OR: LATITUDE:	0.00000	0.00000	0.00000
LONGITUDE:	0.00000	0.00000	0.00000

LOCATION:

	<u>GENERAL LOCATION</u>	<u>SITE PLAN</u>
NAME :	SOUTH UKALERK	SOUTH UKALERK
NUMBER:	1	2,3
SCALE :	1:0	1:
FORMAT:	PAPER COPY	PAPER COPY
ARCHIV:	SPONSOR/CONTRACTOR	SPONSOR/CONTRACTOR
DIG NO:	NA	NA

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS:

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : GEOTECHNICAL  
SCOPE: TWO SITES  
LEVEL: SOIL CLASSIFICATION, STRATIGRAPHY, PROPERTIES

SIZE :                      2 BHs, 9 CPTs FOR UKALERK, 9 GC FOR ISSERK  
SURVEY PATTERN: IRREGULAR GRID  
SURVEY SPACING: IRREGULAR  
SEASON: SUMMER                      PROGRAM LENGTH: 6 DAYS, AUG 7-12

EQUIPMENT : CPT PROBE, SINCO 5000 WS TOP DRIVE ROTARY DRILL, WIRELINE

PENETRATION: 32.8M TO 59.1M FOR BHs, 8.2M TO 58.5M FOR CPT, .4M TO .9M FOR GCs,  
CLAY, SAND, CLAY, SILT & CLAY, UNITS I, II, III, IV, CLAY  
RESOLUTION : GOOD

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : 3M  
QUALITY: GOOD  
TYPE : TT, HT, POREWATER, GC  
SIZE : TT, 23 HT, 18 POREWATER

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : SOIL CLASSIFICATION, PROPERTIES, STRATIGRAPHY  
REPORT : GEOTECHNICAL DATA, FORMAL REPORT  
DISTRIB: SPONSOR/CONTRACTOR  
OTHER : EBA #0101-3867, GEOTERREX 1983

ARCHIVING OF INFORMATION:

REPORT : SPONSOR/CONTRACTOR  
DATA : SC

DATA COMPILATION AND UPDATING:

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/04                      COMPILATION PROJECT NO.: 0306-34693  
UPDATED BY : EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/04                      UPDATE PROJECT NO.: 0306-34693

BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

=====

STUDY NUMBER: INAC871BS      MONTH: 4      YEAR: 1987

SPONSOR : INDIAN AND NORTHERN AFFAIRS CANADA  
JOB NO : MOGAP A4:A4-6      CONTACT: MR. ROBERT GOWAN  
CONTRACTOR : EBA ENGINEERING CONSULTANTS LTD.  
JOB NO : 0301-34241      CONTACT: MR. NEIL MACLEOD  
REPORT TITLE: SYNTHESIS AND INTERPRETATION OF BATHYMETRIC GEOPHYSICAL AND GEOTECHNICAL DATA FROM  
ISSIGAK BORROW BLOCK, 1987 APRIL

COORDINATES :	MINIMUM	CENTRE	MAXIMUM
UTM: ZONE:	8	8	8
EASTING:	454900	462000	467000
NORTHING:	7732000	7737000	7740000
OR: LATITUDE:	0.00000	0.00000	0.00000
LONGITUDE:	0.00000	0.00000	0.00000

LOCATION:

	GENERAL LOCATION	SITE PLAN
NAME :	ISSIGAK BORROW BLOCK	ISSIGAK DEPOSIT
NUMBER:	1.1	2.1, 2.2
SCALE :	1:1000000	1:250000
FORMAT:	PAPER COPY	PAPER COPY
ARCHIV:	SPONSOR/CONTRACTOR	SPONSOR/CONTRACTOR
DIG NO:	NA	NA

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS:

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : GEOPHYSICAL, GEOTECHNICAL, BATHYMETRIC  
SCOPE: ONE SITE  
LEVEL: REVIEW AND SYNTHESIS OF EXISTING DATA

SIZE : N/A  
SURVEY PATTERN: NA  
SURVEY SPACING: N/A  
SEASON: N/A      PROGRAM LENGTH: N/A

EQUIPMENT : NA

PENETRATION: 6M TO PENETRATE DEPOSIT

RESOLUTION : GOOD

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : NA  
QUALITY: NA  
TYPE : NA  
SIZE : N/A

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : SOIL STRATIGRAPHY, BORROW QUANTITIES  
REPORT : FORMAL REVIEW  
DISTRIB: SPONSOR/CONTRACTOR  
OTHER : EBA#E-660, E-965.2, 101-2968, 101-3097, 101-3808, 101-3883, 101-3897, 101-3210, GEOTERREX93-41,  
93-28, HARDY

ARCHIVING OF INFORMATION:

REPORT : SPONSOR/CONTRACTOR  
DATA : SC

DATA COMPILATION AND UPDATING:

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/08      COMPILATION PROJECT NO.: 0306-34693  
UPDATED BY :  
DATE :      UPDATE PROJECT NO.:

**APPENDIX B.2**  
**GEOPHYSICAL AND HYDROGRAPHIC**

BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

\*\*\*\*\*  
STUDY NUMBER: AMOC85AD

MONTH: 7    YEAR: 1985

SPONSOR : AMOCO CANADA PETROLEUM CO LTD (DOME PETROLEUM LTD)

JOB NO : CONTACT: MR. ROCQUE GOH

CONTRACTOR : MCGREGOR GEOSCIENCES LTD.

JOB NO : 85-45.1(P14/297)    CONTACT: MR. TONY LAPIERRE

REPORT TITLE: WELLSITE SEABED SURVEY, ADLARTOK SITE, MACKENZIE TROUGH, 1986 JUNE (1 VOL.)

<u>COORDINATES :</u>	<u>MINIMUM</u>	<u>CENTRE</u>	<u>MAXIMUM</u>
UTM:    ZONE:	8	8	8
EASTING:	385000	0	401300
NORTHING:	7721700	0	7736200
OR: LATITUDE:	0.00000	69.64778	0.00000
LONGITUDE:	0.00000	137.75778	0.00000

LOCATION:

GENERAL LOCATION

NAME : ADLARTOK P-09

SITE PLAN

ADLARTOK P-09

NUMBER: FIG. 1

SCALE : 1:1852000

FORMAT: PAPER COPY

ARCHIV: SPONSOR/CONTRACTOR

DIG NO: NA

FIG.2 (ENCLOSURE 1)

1:10000

BLUELINE

SPONSOR/CONTRACTOR/MCELHANNY

NA

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS: 11 NW-SE LINES, 11 NE-SW LINES; NUMEROUS PORTIONS OF LINES AND  
E-W, N-S LINES IN CENTER PORTION OF SITE (THROUGH AND NEAR  
P-09)

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : GEOPHYSICAL

SCOPE: ONE SITE

LEVEL: SOIL/ROCK STRATIGRAPHY, ANOMALIES, FAULTS, GAS

SIZE : 192KM

SURVEY PATTERN: IRREGULAR GRID

SURVEY SPACING: IRREGULAR

SEASON: SUMMER

PROGRAM LENGTH: 23 DAYS, JULY 10 - AUG 11

EQUIPMENT : 24 CHANNEL SEISMIC, SURFACE-TOWED BOOMER, SUB-BOTTOM PROFILER, SIDESCAN SONAR,  
ECHOSOUNDER

PENETRATION: 1400M (E2-12.5M SOFT TO VERY SOFT CLAY, E1-CLAY/SOME SAND INTERBEDS TO 109M)

RESOLUTION : GOOD

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : 1MS, CONTINUOUS, CONTINUOUS, CONTINUOUS, CHARTSPEED

QUALITY: POOR TO GOOD, DEPENDING ON WEATHER

TYPE : DIGITAL/ANALOG, ANALOG, ANALOG, ANALOG, ANALOG

SIZE : NA, NA, NA, NA, NA

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : SOIL/ROCK STRATIGRAPHY, BATHYMETRY, FAULTS

REPORT : FORMAL GEOPHYSICAL

DISTRIB: SPONSOR/CONTRACTOR

OTHER : EBA #0101C-4400

ARCHIVING OF INFORMATION:

REPORT : SPONSOR/CONTRACTOR/COGLA 9426-D3-2E

DATA : SPONSOR/CONTRACTOR

DATA COMPILATION AND UPDATING:

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.

DATE : 91/03/05    COMPILATION PROJECT NO.: 0306-34693

UPDATED BY :

DATE :                      UPDATE PROJECT NO.:

BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

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STUDY NUMBER: AMOC88AA                      MONTH: 7      YEAR: 1988

SPONSOR : AMOCO CANADA PETROLEUM CO LTD  
JOB NO : 889032                      CONTACT: MR. ROCQUE GOH  
CONTRACTOR : MCGREGOR GEOSCIENCES LTD.  
JOB NO : 88-11.1(PO2/500)              CONTACT: MR. TONY LAPIERRE  
REPORT TITLE: WELLSITE SURVEY REPORT, AAGNERK SITE, MACKENZIE TROUGH, BEAUFORT SEA, 1989 APRIL

COORDINATES :	MINIMUM	CENTRE	MAXIMUM
UTM: ZONE:	8	8	8
EASTING:	415400	0	424400
NORTHING:	7734700	0	7746500
OR: LATITUDE:	0.00000	69.74815	0.00000
LONGITUDE:	0.00000	137.02253	0.00000

LOCATION:

	<u>GENERAL LOCATION</u>	<u>SITE PLAN</u>
NAME :	AAGNERK	AAGNERK
NUMBER:	FIG. 1	FIG. 2,5 (ENCLOSURE 1,3)
SCALE :	1:588200	1:10000
FORMAT:	PAPER COPY	BLUELINE
ARCHIV:	SPONSOR/CONTRACTOR	SPONSOR/CONTRACTOR/CHALLENGER
DIG NO:	NA	NA

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS: 11 NW-SE LINES, 23 NE-SW LINES, 2 TIE-LINES

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : GEOPHYSICAL  
SCOPE: ONE SITE  
LEVEL: SOIL/ROCK STRATIGRAPHY, ANOMALIES

SIZE : 36 LINES, 235 KM  
SURVEY PATTERN: IRREGULAR GRID  
SURVEY SPACING: IRREGULAR  
SEASON: SUMMER                      PROGRAM LENGTH: 6 DAYS, JULY 25-29, AUG 17-20

EQUIPMENT : MULTI CHANNEL SEISMIC, SURFACE-TOWED BOOMER, SIDESCAN SONAR, SUB-BOTTOM PROFILER,  
ECHOSOUNDER, GRAB SAMPLER, GRAVITY CORER, SEA FLOOR CAMERA  
PENETRATION: 860M (MT1A 0-47M-CLAY & SILT, 35-36M-SANDY INTERBED, MT1B-SANDY SILT/SILT/SILT & CLAY  
TO 91M  
RESOLUTION : GOOD

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : 1MS, CONTINUOUS, CONTINUOUS, CONTINUOUS, CHARTSPEED, SURFICIAL SAMPL  
QUALITY: POOR TO GOOD DEPENDING ON WEATHER  
TYPE : DIGITAL/ANALOG, ANALOG, ANALOG, ANALOG, ANALOG, GRAB, GC, PHOTO  
SIZE : NA, NA, NA, NA, NA, 7 GRAB, 2 GC

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : SOIL/ROCK STRATIGRAPHY, BATHYMETRY, GAS, PERMAFROST, FAULTS  
REPORT : FORMAL GEOPHYSICAL  
DISTRIB: SPONSOR/CONTRACTOR  
OTHER :

ARCHIVING OF INFORMATION:

REPORT : SPONSOR/CONTRACTOR/COGLA 9426-A4-2E  
DATA : SPONSOR/CONTRACTOR

DATA COMPILATION AND UPDATING:

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/05                      COMPILATION PROJECT NO.: 0306-34693  
UPDATED BY :  
DATE :                      UPDATE PROJECT NO.:

BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

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STUDY NUMBER: AMOC88KN                      MONTH: 7      YEAR: 1988

SPONSOR : AMOCO CANADA PETROLEUM CO LTD  
JOB NO : 889032                      CONTACT: MR. ROCQUE GOM  
CONTRACTOR : MCGREGOR GEOSCIENCES LTD.  
JOB NO : 88-11.2(P02/502)                      CONTACT: MR. TONY LAPIERRE  
REPORT TITLE: WELLSITE SURVEY REPORT, KINGARK SITE, MACKENZIE TROUGH, BEAUFORT SEA, APRIL 1989

<u>COORDINATES :</u>	<u>MINIMUM</u>	<u>CENTRE</u>	<u>MAXIMUM</u>
UTM: ZONE:	8	8	8
EASTING:	403000	0	409400
NORTHING:	7731900	0	7739500
OR: LATITUDE:	0.00000	69.72896	0.00000
LONGITUDE:	0.00000	137.47086	0.00000

LOCATION:

	<u>GENERAL LOCATION</u>	<u>SITE PLAN</u>
NAME :	KINGARK	KINGARK
NUMBER:	FIG. 1	FIG,5 (ENCLOSURE 1,3)
SCALE :	1:588200	1:10000
FORMAT:	PAPER COPY	BLUELINE
ARCHIV:	SPONSOR/CONTRACTOR	SPONSOR/CONTRACTOR/CHALLENGER
DIG NO:	NA	NA

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS: 9 NW-SE LINES, 15 NE-SW LINES, 3 TIE-LINES

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : GEOPHYSICAL  
SCOPE: ONE SITE  
LEVEL: SOIL/ROCK STRATIGRAPHY, GAS, FAULTS, SHALLOW ANOMALIES

SIZE : 27 LINES, 126 KM  
SURVEY PATTERN: IRREGULAR GRID  
SURVEY SPACING: IRREGULAR  
SEASON: SUMMER                      PROGRAM LENGTH: 7 DAYS, JULY 29-31, A 8, 11, 22, 23

EQUIPMENT : MULTI CHANNEL SEISMIC, SURFACE-TOWED BOOMER, SIDESCAN SONAR, SUB-BOTTOM PROFILER, ECHOSOUNDER, GRAB SAMPLER, GRAVITY CORER, SEA FLOOR CAMERA  
PENETRATION: 1280M (UNIT MT1A 0-7M CLAY, 7-16.5M CLAY, 16.5-22M CLAY & SILT, UNIT MT1B -22-26M SILT & SAND, 26-103M SILT AND CLAY)  
RESOLUTION : GOOD

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : 1MS, CONTINUOUS, CONTINUOUS, CONTINUOUS, CHARTSPEED, SURFICIAL SAMPL  
QUALITY: GENERALLY GOOD  
TYPE : DIGITAL/ANALOG, ANALOG, ANALOG, ANALOG, ANALOG, GRAB, GC, PHOTOS  
SIZE : NA, NA, NA, NA, NA, 7 GRAB, 2 GC

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : SOIL/ROCK STRATIGRAPHY, BATHYMETRY, PERMAFROST FAULTS, GAS  
REPORT : FORMAL GEOPHYSICAL  
DISTRIB: SPONSOR/CONTRACTOR  
OTHER :

ARCHIVING OF INFORMATION:

REPORT : SPONSOR/CONTRACTOR/COGLA 9426-A4-2E  
DATA : SPONSOR/CONTRACTOR

DATA COMPILATION AND UPDATING:

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/05                      COMPILATION PROJECT NO.: 0306-34693  
UPDATED BY :  
DATE :                      UPDATE PROJECT NO.:

BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

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STUDY NUMBER: AMOC880K MONTH: 8 YEAR: 1988

SPONSOR : AMOCO CANADA PETROLEUM CO LTD  
JOB NO : 889032 CONTACT: MR. ROCQUE GOM  
CONTRACTOR : MCGREGOR GEOSCIENCES LTD.  
JOB NO : 88-11.3(P02/503) CONTACT: MR. TONY LAPIERRE  
REPORT TITLE: WELLSITE SURVEY REPORT, ORKSOK SITE, MACKENZIE TROUGH, BEAUFORT SEA, 1989 JUNE (2  
VOLS)

COORDINATES :	MINIMUM	CENTRE	MAXIMUM
UTM: ZONE:	8	8	8
EASTING:	402200	0	412600
NORTHING:	7717000	0	7727000
OR: LATITUDE:	0.00000	69.60592	0.00000
LONGITUDE:	0.00000	137.45804	0.00000

LOCATION:

	<u>GENERAL LOCATION</u>	<u>SITE PLAN</u>
NAME :	ORKSOK (MACKENZIE BAY)	ORKSOK
NUMBER:	FIG. 1	FIG. 2,3 (ENCLOSURE 1,2)
SCALE :	1:250000	1:10000
FORMAT:	PAPER COPY	BLUELINE
ARCHIV:	SPONSOR/CONTRACTOR/CHALLENGER	SPONSOR/CONTRACTOR/CHALLENGER
DIG NO:	NA	NA

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS: 11 DIP LINES, 21 STRIKE LINES, 4 OTHER LINES (TIE-LINES)

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : GEOPHYSICAL  
SCOPE: ONE SITE  
LEVEL: SOIL & ROCK STRATIGRAPHY, DETECTION OF SEISMIC ANOMALIES, HAZARDS, FAULTING

SIZE : 35 LINES, 235 KM  
SURVEY PATTERN: IRREGULAR GRID  
SURVEY SPACING: IRREGULAR  
SEASON: SUMMER PROGRAM LENGTH: 9 DAYS, JULY 31-AUG 8, 1988

EQUIPMENT : MULTI CHANNEL SEISMIC, SURFACE-TOWED BOOMER, SIDESCAN SONAR, SUB-BOTTOM PROFILER,  
ECHOSOUNDER, GRAB SAMPLER, GRAVITY CORER, SEA FLOOR CAMERA  
PENETRATION: 571M (UNIT MT1A TO 24.5M-CLAY, CLAY & SILT, UNIT MT1B-SILT & SAND TO 29.5M, SILT &  
CLAY TO 103M)  
RESOLUTION : GOOD

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : 1MS, CONTINUOUS, CONTINUOUS, CONTINUOUS, CHARTSPEED, SURFICIAL SAMPL  
QUALITY: POOR TO GOOD DEPENDING ON WEATHER, FINAL DATA APPEARS GENERALLY GOOD  
TYPE : DIGITAL/ANALOG, ANALOG, ANALOG, ANALOG, ANALOG, GRAB, GC, PHOTOS  
SIZE : NA, NA, NA, NA, NA, 7 GRAB, 2 GC

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : SOIL & ROCK STRATIGRAPHY, FAULTS, GAS, CORRELATION TO EXISTING BHs (EBA)  
REPORT : FORMAL GEOPHYSICAL  
DISTRIB: SPONSOR/CONTRACTOR  
OTHER : EBA #0101-4422, 0101-4418

ARCHIVING OF INFORMATION:

REPORT : SPONSOR/CONTRACTOR/COGLA 9426-A4-2E  
DATA : SPONSOR/CONTRACTOR

DATA COMPILATION AND UPDATING:

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/05 COMPILATION PROJECT NO.: 0306-34693  
UPDATED BY :  
DATE : UPDATE PROJECT NO.:



BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

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STUDY NUMBER: AMOC88SA                      MONTH: 8      YEAR: 1988

SPONSOR : AMOCO CANADA PETROLEUM CO LTD  
JOB NO : 889032                      CONTACT: MR. ROCQUE GOH  
CONTRACTOR : MCGREGOR GEOSCIENCES LTD.  
JOB NO : 88-11.4(P02/518)                      CONTACT: MR. TONY LAPIERRE  
REPORT TITLE: WELLSITE SURVEY REPORT, SOUTH ADLARTOK SITE, MACKENZIE TROUGH, BEAUFORT SEA, 1989 JUNE

<u>COORDINATES :</u>	<u>MINIMUM</u>	<u>CENTRE</u>	<u>MAXIMUM</u>
UTM: ZONE:	8	8	8
EASTING:	391200	0	401000
NORTHING:	7721500	0	7729400
OR: LATITUDE:	0.00000	69.61667	0.00000
LONGITUDE:	0.00000	137.65000	0.00000

LOCATION:

	<u>GENERAL LOCATION</u>	<u>SITE PLAN</u>
NAME :	SOUTH ADLARTOK	SOUTH ADLARTOK
NUMBER:	FIG. 1	FIG. 2,5 (ENCLOSURE 1,2)
SCALE :	1:250000	1:1000
FORMAT:	PAPER COPY	BLUELINE
ARCHIV:	SPONSOR/CONTRACTOR	SPONSOR/CONTRACTOR/CHALLENGER
DIG NO:	NA	NA

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS: 13 NW-SE LINES, 14 NE-SW LINES, 3 TIE-LINES

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : GEOPHYSICAL  
SCOPE: ONE SITE  
LEVEL: SOIL/ROCK STRATIGRAPHY, ANOMALIES

SIZE : 30 LINES, 156 KM  
SURVEY PATTERN: IRREGULAR GRID  
SURVEY SPACING: IRREGULAR  
SEASON: SUMMER                      PROGRAM LENGTH: 7 DAYS, AUG 6-11, 23-25

EQUIPMENT : MULTI CHANNEL SEISMIC, SURFACE-TOWED BOOMER, SIDESCAN SONAR, SUB-BOTTOM PROFILER,  
ECHOSOUNDER, GRAB SAMPLER, GRAVITY CORER, SEA FLOOR CAMERA  
PENETRATION: 1059M (MT1A-0-15M-CLAY, 15-22M-CLAY & SILT, MT1B-SILT TO 112M)

RESOLUTION : GOOD

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : 1MS, CONTINUOUS, CONTINUOUS, CONTINUOUS, CHARTSPEED, SURFICIAL SAMPL  
QUALITY: POOR TO GOOD DEPENDING ON THE WEATHER  
TYPE : DIGITAL/ANALOG, ANALOG, ANALOG, ANALOG, ANALOG, GRAB, GC, PHOTO  
SIZE : NA, NA, NA, NA, NA, 7 GRAB, 2 GC

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : SOIL/ROCK STRATIGRAPHY, BATHYMETRY, GAS, FAULTS, PERMAFROST  
REPORT : FORMAL GEOPHYSICAL  
DISTRIB: SPONSOR/CONTRACTOR  
OTHER :

ARCHIVING OF INFORMATION:

REPORT : SPONSOR/CONTRACTOR/COGLA 9426-A4-2E  
DATA : SPONSOR/CONTRACTOR

DATA COMPILATION AND UPDATING:

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/05                      COMPILATION PROJECT NO.: 0306-34693  
UPDATED BY :  
DATE :                      UPDATE PROJECT NO.:

BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

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STUDY NUMBER: AMOC881E                      MONTH: 8      YEAR: 1988

SPONSOR : AMOCO CANADA PETROLEUM CO LTD  
JOB NO : 889032                      CONTACT: MR. ROCQUE GOM  
CONTRACTOR : MCGREGOR GEOSCIENCES LTD.  
JOB NO : 88-11.5(PO3/520)                      CONTACT: MR. TONY LAPIERRE  
REPORT TITLE: WELLSITE SURVEY REPORT, IMMERARK SITE, MACKENZIE TROUGH, BEAUFORT SEA, 1989 JUNE (2 VOLUMES)

COORDINATES :	MINIMUM	CENTRE	MAXIMUM
UTM:    ZONE:	8	8	8
EASTING:	391200	0	402700
NORTHING:	7707800	0	7718600
OR: LATITUDE:	0.00000	69.52694	0.00000
LONGITUDE:	0.00000	137.58333	0.00000

LOCATION:

	<u>GENERAL LOCATION</u>	<u>SITE PLAN</u>
NAME :	IMMERARK	IMMERARK
NUMBER:	FIG. 1	FIG. 2,6 (ENCLOSURE 1,3)
SCALE :	1:250000	1:10000
FORMAT:	PAPER COPY	BLUELINE
ARCHIV:	SPONSOR/CONTRACTOR/CHALLENGER	SPONSOR/CONTRACTOR/CHALLENGER
DIG NO:	NA	NA

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS: 12 NW-SE LINES, 10 NE-SW LINES, 4 OTHER LINES

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : GEOPHYSICAL  
SCOPE: ONE SITE  
LEVEL: SOIL/ROCK STRATIGRAPHY, ANOMALIES

SIZE :                      26 LINES, 168 KM BOOMER  
SURVEY PATTERN:                      IRREGULAR GRID  
SURVEY SPACING:                      IRREGULAR  
SEASON: SUMMER                      PROGRAM LENGTH: 9 DAYS, AUG 12-14, 21-26

EQUIPMENT : 24 CHANNEL SEISMIC, SURFACE-TOWED BOOMER, SIDESCAN SONAR, ECHOSOUNDER, GRAB  
SAMPLER, GRAVITY CORER, SEA FLOOR CAMERA  
PENETRATION: 1077M (UNIT MT1A-0-18M CLAY, 18-24M-CLAY & SILT, UNIT MT1B-SILT TO 105M)

RESOLUTION : GOOD TO 120M

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : 1MS, CONTINUOUS, CONTINUOUS, CHARTSPEED, SURFICIAL SAMPLES  
QUALITY: GENERALLY GOOD  
TYPE : DIGITAL/ANALOG, ANALOG, ANALOG, ANALOG, GRAB, GC, PHOTO  
SIZE : NA, NA, NA, NA, 9 GRAB, 2 GC

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : SOIL/ROCK STRATIGRAPHY, BATHYMETRY, GAS, CORRELATION TO EXISTING BHs  
REPORT : FORMAL GEOPHYSICAL  
DISTRIB: SPONSOR/CONTRACTOR  
OTHER :

ARCHIVING OF INFORMATION:

REPORT : SPONSOR/CONTRACTOR/COGLA 9426-A4-2E  
DATA : SPONSOR/CONTRACTOR

DATA COMPILATION AND UPDATING:

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/05                      COMPILATION PROJECT NO.: 0306-34693  
UPDATED BY :  
DATE :                      UPDATE PROJECT NO.:

BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

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STUDY NUMBER: AMOC88IU                      MONTH: 8      YEAR: 1988

SPONSOR : AMOCO CANADA PETROLEUM CO LTD  
JOB NO : 889032                      CONTACT: MR. ROCQUE GOH  
CONTRACTOR : MCGREGOR GEOSCIENCES LTD.  
JOB NO : 88-11.5(P03/520)                      CONTACT: MR. TONY LAPIERRE  
REPORT TITLE: WELLSITE SURVEY REPORT, IMMERARK SITE, MACKENZIE TROUGH, BEAUFORT SEA, 1989 JUNE (2 VOLUMES)

COORDINATES :	MINIMUM	CENTRE	MAXIMUM
UTM: ZONE:	8	8	8
EASTING:	386300	0	392100
NORTHING:	7712400	0	7713800
OR: LATITUDE:	0.00000	69.50000	0.00000
LONGITUDE:	0.00000	137.83333	0.00000

LOCATION:

	<u>GENERAL LOCATION</u>	<u>SITE PLAN</u>
NAME :	INUKPAK	INUKPAK
NUMBER:	FIG. 1	FIG. 3 (ENCLOSURE 2)
SCALE :	1:250000	1:10000
FORMAT:	PAPER COPY	BLUELINE
ARCHIV:	SPONSOR/CONTRACTOR/CHALLENGER	SPONSOR/CONTRACTOR/CHALLENGER
DIG NO:	NA	NA

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS: 1 LINE E-W, TIES INTO IMMERARK

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : GEOPHYSICAL  
SCOPE: ONE SITE  
LEVEL: SOIL/ROCK STRATIGRAPHY, ANOMALIES

SIZE : 1 LINE, 17.5 DIG/AN  
SURVEY PATTERN: LINE  
SURVEY SPACING: N/A  
SEASON: SUMMER                      PROGRAM LENGTH: 1 DAY

EQUIPMENT : 24 CHANNEL SEISMIC, SURFACE-TOWED BOOMER, SIDESCAN SONAR, ECHOSOUNDER, GRAB  
SAMPLER, GRAVITY CORER, SEA FLOOR CAMERA  
PENETRATION: 1077M (UNIT MT1A-0-18M CLAY, 18-24M CLAY & SILT, MT1B-SILT 105M)

RESOLUTION : GOOD TO 120M

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : 1MS, CONTINUOUS, CONTINUOUS, CHARTSPEED, SURFICIAL SAMPLES  
QUALITY: GENERALLY GOOD  
TYPE : DIGITAL/ANALOG, ANALOG, ANALOG, ANALOG, GRAB, GC, PHOTOS  
SIZE : NA, NA, NA, NA, 9 GRAB, 2 GC

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : SOIL/ROCK STRATIGRAPHY, BATHYMETRY, GAS, CORRELATION TO EXISTING BHs  
REPORT : FORMAL GEOPHYSICAL  
DISTRIB: SPONSOR/CONTRACTOR  
OTHER :

ARCHIVING OF INFORMATION:

REPORT : SPONSOR/CONTRACTOR/COGLA 9426-A4-2E  
DATA : SPONSOR/CONTRACTOR

DATA COMPILATION AND UPDATING:

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/05      COMPILATION PROJECT NO.: 0306-34693  
UPDATED BY :  
DATE :                      UPDATE PROJECT NO.:

BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

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STUDY NUMBER: AMOC89TG                      MONTH: 8      YEAR: 1989

SPONSOR : AMOCO CANADA PETROLEUM CO LTD  
JOB NO : 899046                      CONTACT: MR. ROCQUE GON  
CONTRACTOR : MCGREGOR GEOSCIENCES LTD.  
JOB NO : 89-14.1(P03/533)                      CONTACT: MR. TONY LAPIERRE  
REPORT TITLE: WELLSITE SURVEY REPORT, TIREGLUIT SITE, YUKON SHELF/MACKENZIE TROUGH, BEAUFORT  
SEA, 1989 DECEMBER (2 VOLUMES)

<u>COORDINATES :</u>	<u>MINIMUM</u>	<u>CENTRE</u>	<u>MAXIMUM</u>
UTM: ZONE:	8	8	8
EASTING:	569100	0	528600
NORTHING:	7737600	0	7749500
OR: LATITUDE:	0.00000	69.77944	0.00000
LONGITUDE:	0.00000	139.06611	0.00000

LOCATION:

	<u>GENERAL LOCATION</u>	<u>SITE PLAN</u>
NAME :	TIREGLUIT	TIREGLUIT
NUMBER:	FIG. 1	FIG. 2,3 (ENCLOSURE 1,2)
SCALE :	1:909100	1:10000
FORMAT:	PAPER COPY	BLUELINE
ARCHIV:	SPONSOR/CONTRACTOR	SPONSOR/CONTRACTOR/MCELHANNY
DIG NO:	NA	NA

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS: 10 NW-SE LINES, 23 NE-SW LINES, 1 TIE-IN LINE

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : GEOPHYSICAL  
SCOPE: ONE SITE  
LEVEL: SOIL/ROCK STRATIGRAPHY, ANOMALIES, FAULTING

SIZE : 34 LINES, 231 KM  
SURVEY PATTERN: IRREGULAR GRID  
SURVEY SPACING: IRREGULAR  
SEASON: SUMMER                      PROGRAM LENGTH: 8 DAYS, AUG 9, 10, 21-26

EQUIPMENT : MULTI CHANNEL SEISMIC, SURFACE-TOWED BOOMER, SIDESCAN SONAR, SUB-BOTTOM PROFILER,  
ECHOSOUNDER, GRAB SAMPLER, GRAVITY CORER, SEA FLOOR CAMERA  
PENETRATION: 1088M (UNIT NP1-0-2M CLAY-SANDY, GRAVELLY; 2-21.5M CLAY; NP2-21.6M GRAVEL TO 48.0M  
CLAY)  
RESOLUTION : GOOD

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : 1MS, CONTINUOUS, CONTINUOUS, CONTINUOUS, CHARTSPEED, SURFICIAL SAMPL  
QUALITY: POOR TO GOOD DEPENDING ON WEATHER, GENERALLY GOOD  
TYPE : DIGITAL/ANALOG, ANALOG, ANALOG, ANALOG, GRAB, PHOTOS  
SIZE : NA, NA, NA, NA, NA, 8 GRAB

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : SOIL/ROCK STRATIGRAPHY, BATHYMETRY, GAS, FAULTS, CORRELATION TO EXISTING BHs  
REPORT : FORMAL GEOPHYSICAL  
DISTRIB: SPONSOR/CONTRACTOR  
OTHER : EBA #0101-4277

ARCHIVING OF INFORMATION:

REPORT : SPONSOR/CONTRACTOR/COGLA 9426-A4-3E  
DATA : SPONSOR/CONTRACTOR

DATA COMPILATION AND UPDATING:

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/05                      COMPILATION PROJECT NO.: 0306-34693  
UPDATED BY :  
DATE :                      UPDATE PROJECT NO.:

BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

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STUDY NUMBER: AMOC89SR                      MONTH: 8      YEAR: 1989

SPONSOR : AMOCO CANADA PETROLEUM CO LTD  
JOB NO : 899046                      CONTACT: MR. ROCQUE GON  
CONTRACTOR : MCGREGOR GEOSCIENCES LTD.  
JOB NO : 89-14.2(P02/545)              CONTACT: MR. TONY LAPIERRE  
REPORT TITLE: WELLSITE SURVEY REPORT, SARTOK SITE, MACKENZIE TROUGH, BEAUFORT SEA, 1990 JULY (2  
VOLUMES)

<u>COORDINATES :</u>	<u>MINIMUM</u>	<u>CENTRE</u>	<u>MAXIMUM</u>
UTM: ZONE:	8	8	8
EASTING:	388100	9	395700
NORTHING:	7742100	0	7750000
OR: LATITUDE:	0.00000	69.80000	0.00000
LONGITUDE:	0.00000	137.79111	0.00000

LOCATION:

	<u>GENERAL LOCATION</u>	<u>SITE PLAN</u>
NAME :	SARTOK	SARTOK
NUMBER:	FIG. 1	FIG. 2,3 (ENCLOSURE 1,2)
SCALE :	1:1000000	1:10000
FORMAT:	PAPER COPY	BLUELINE
ARCHIV:	SPONSOR/CONTRACTOR	SPONSOR/CONTRACTOR/MCELHANNEY
DIG NO:	NA	NA

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS: 10 NW-SE LINES, 16 NE-SW LINES, 2 OTHER LINES INCLUDING TIE-IN

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : GEOPHYSICAL  
SCOPE: ONE SITE  
LEVEL: SOIL/ROCK STRATIGRAPHY, ANOMALIES, FAULTING

SIZE : 28 LINES, 172 KM  
SURVEY PATTERN: IRREGULAR GRID  
SURVEY SPACING: IRREGULAR  
SEASON: SUMMER                      PROGRAM LENGTH: 10 DAYS, AUG 5-12, 15, 16

EQUIPMENT : MULTI CHANNEL SEISMIC, SURFACE-TOWED BOOMER, SIDESCAN SONAR, SUB-BOTTOM PROFILER,  
ECHOSOUNDER, GRAB SAMPLER, GRAVITY CORER, SEA FLOOR CAMERA  
PENETRATION: 680M (UNIT MT1-0-100M-CLAY)

RESOLUTION : GOOD

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : 1MS, CONTINUOUS, CONTINUOUS, CONTINUOUS, CHARTSPEED, SURFICIAL (.8M)  
QUALITY: GENERALLY GOOD  
TYPE : DIGITAL/ANALOG, ANALOG, ANALOG, ANALOG, ANALOG, GRAB, GC, PHOTOS  
SIZE : NA, NA, NA, NA, NA, 7 GRAB, 2 GC

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : SOIL/ROCK STRATIGRAPHY, BATHYMETRY, GAS, FAULTS, CORRELATION TO EXISTING BHs  
REPORT : FORMAL GEOPHYSICAL  
DISTRIB: SPONSOR/CONTRACTOR  
OTHER :

ARCHIVING OF INFORMATION:

REPORT : SPONSOR/CONTRACTOR/COGLA 9426-A4-3E  
DATA : SPONSOR/CONTRACTOR

DATA COMPILATION AND UPDATING:

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/05              COMPILATION PROJECT NO.: 0306-34693  
UPDATED BY :  
DATE :                      UPDATE PROJECT NO.:

BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

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STUDY NUMBER: AMOC89SY                      MONTH: 8      YEAR: 1989

SPONSOR : AMOCO CANADA PETROLEUM CO LTD  
JOB NO : 899046                      CONTACT: MR. ROCQUE GOM  
CONTRACTOR : MCGREGOR GEOSCIENCES LTD.  
JOB NO : 89-14.3(P02/537)                      CONTACT: MR. TONY LAPIERRE  
REPORT TITLE: WELLSITE SURVEY REPORT, SOUTH KOGYUK SITE, TINGMIARK PLAIN, BEAUFORT SEA

<u>COORDINATES :</u>	<u>MINIMUM</u>	<u>CENTRE</u>	<u>MAXIMUM</u>
UTM: ZONE:	8	8	8
EASTING:	567500	0	576200
NORTHING:	7770500	0	7778100
OR: LATITUDE:	0.00000	70.06053	0.00000
LONGITUDE:	0.00000	133.19178	0.00000

LOCATION:

	<u>GENERAL LOCATION</u>	<u>SITE PLAN</u>
NAME :	SOUTH KOGYUK L-34	SOUTH KOGYUK L-34
NUMBER:	FIG. 1	FIG. 2,4 (ENCLOSURE 1,2)
SCALE :	1:500000	1:10000
FORMAT:	PAPER COPY	BLUELINE
ARCHIV:	SPONSOR/CONTRACTOR	SPONSOR/CONTRACTOR/MCELHANNY
DIG NO:	NA	NA

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS: 18 NW-SE LINES, 10 NE-SW LINES, 2 TIE-LINES

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : GEOPHYSICAL  
SCOPE: ONE SITE  
LEVEL: SOIL/ROCK STRATIGRAPHY, ANOMALIES, GEOHAZARDS

SIZE : 30 LINES, 159 KM (+ 46 KM TIE/TEST LINES)  
SURVEY PATTERN: IRREGULAR GRID  
SURVEY SPACING: IRREGULAR  
SEASON: SUMMER                      PROGRAM LENGTH: 7 DAYS, JULY 30-AUG 1, 27-30

EQUIPMENT : MULTI CHANNEL SEISMIC, SURFACE-TOWED BOOMER, SIDESCAN SONAR, SUB-BOTTOM PROFILER,  
ECHOSOUNDER, GRAB SAMPLER, GRAVITY CORER, SEA FLOOR CAMERA  
PENETRATION: 595M (SEQUENCE 1:0-1M CLAY, 1-45M SAND, 45-69M SILT(TARSIUT SILT), 69-595M SAND  
LAYERS(FROZEN))  
RESOLUTION : GOOD

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : 1MS, CONTINUOUS, CONTINUOUS, CONTINUOUS, CHARTSPEED, SURFICIAL SAMPL  
QUALITY: POR TO GOOD DEPENDING ON WEATHER  
TYPE : DIGITAL/ANALOG, ANALOG, ANALOG, ANALOG, ANALOG, GRAB, PHOTO  
SIZE : NA, NA, NA, NA, NA, GRAB

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : SOIL STRATIGRAPHY, BATHYMETRY, PERMAFROST, GAS  
REPORT : FORMAL GEOPHYSICAL  
DISTRIB: SPONSOR/CONTRACTOR  
OTHER :

ARCHIVING OF INFORMATION:

REPORT : SPONSOR/CONTRACTOR/COGLA 9426-A4-3E  
DATA : SPONSOR/CONTRACTOR

DATA COMPILATION AND UPDATING:

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/05                      COMPILATION PROJECT NO.: 0306-34693  
UPDATED BY :  
DATE :                      UPDATE PROJECT NO.:

BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

=====

**STUDY NUMBER:** AMOC89                      **MONTH:** 8    **YEAR:** 1989

**SPONSOR :** AMOCO CANADA PETROLEUM CO LTD  
**JOB NO :** 899046                      **CONTACT:** MR. ROCQUE GOH  
**CONTRACTOR :** MCGREGOR GEOSCIENCES LTD.  
**JOB NO :** 89-14.4(PO2/542)                      **CONTACT:** MR. TONY LAPIERRE  
**REPORT TITLE:** WELLSITE SURVEY REPORT, SOUTH IMMERARK SITE, MACKENZIE TROUGH, BEAUFORT SEA

<u>COORDINATES :</u>	<u>MINIMUM</u>	<u>CENTRE</u>	<u>MAXIMUM</u>
UTM: ZONE:	8	8	8
EASTING:	396000	0	400300
NORTHING:	7701900	0	7709600
OR: LATITUDE:	0.00000	69.72500	0.00000
LONGITUDE:	0.00000	138.01389	0.00000

**LOCATION:**

	<u>GENERAL LOCATION</u>	<u>SITE PLAN</u>
<b>NAME :</b>	SOUTH IMMERARK	SOUTH IMMERARK
<b>NUMBER:</b>	FIG. 1	FIG. 2,5 (ENCLOSURE 1,2)
<b>SCALE :</b>	1:909100	1:10000
<b>FORMAT:</b>	PAPER COPY	BLUELINE
<b>ARCHIV:</b>	SPONSOR/CONTRACTOR	SPONSOR/CONTRACTOR/MCELHANNEY
<b>DIG NO:</b>	NA	NA

**SOURCE NUMBER(S):**

**SURVEY LINES / LOCATION DETAILS:** 15 LINES NW-SE, 13 LINES NE-SW, 1 TIE-LINE

**DESCRIPTION OF STUDY AND SURVEY DETAILS:**

**TYPE :** GEOPHYSICAL  
**SCOPE:** ONE SITE  
**LEVEL:** SOIL/ROCK STRATIGRAPHY, ANOMALIES, FAULTING

**SIZE :** 19 LINES, 140 KM  
**SURVEY PATTERN:** IRREGULAR GRID  
**SURVEY SPACING:** IRREGULAR  
**SEASON:** SUMMER                      **PROGRAM LENGTH:** 4 DAYS, AUG 8, 13-15

**EQUIPMENT :** MULTI CHANNEL SEISMIC, SURFACE-TOWED BOOMER, SIDESCAN SONAR, SUB-BOTTOM PROFILER, ECHOSOUNDER, GRAB SAMPLER, GRAVITY CORER, SEA FLOOR CAMERA  
**PENETRATION:** 419M (MT1A-0-18M CLAY, 18-25M CLAY/SILT, MT1B-SILT TO 96M)

**RESOLUTION :** GOOD

**INFORMATION ON SAMPLES OR SURVEY RECORDS:**

**RATE :** 1MS, CONTINUOUS, CONTINUOUS, CONTINUOUS, CHARTSPEED, SURFICIAL SAMPL  
**QUALITY:** GENERALLY GOOD  
**TYPE :** DIGITAL/ANALOG, ANALOG, ANALOG, ANALOG, GRAB, GC, PHOTOS  
**SIZE :** NA, NA, NA, NA, NA, 8 GRAB, 2 GC

**LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:**

**INTERP :** SOIL/ROCK STRATIGRAPHY, BATHYMETRY, GAS, FAULTING, PERMAFROST  
**REPORT :** FORMAL GEOPHYSICAL  
**DISTRIB:** SPONSOR/CONTRACTOR  
**OTHER :**

**ARCHIVING OF INFORMATION:**

**REPORT :** SPONSOR/CONTRACTOR/COGLA 9426-A4-3E  
**DATA :** SPONSOR/CONTRACTOR

**DATA COMPILATION AND UPDATING:**

**COMPILED BY:** EBA ENGINEERING CONSULTANTS LTD.  
**DATE :** 91/03/05                      **COMPILATION PROJECT NO.:** 0306-34693  
**UPDATED BY :**  
**DATE :**                      **UPDATE PROJECT NO.:**

BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

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STUDY NUMBER: AMOC89SO                      MONTH: 8      YEAR: 1989

SPONSOR : AMOCO CANADA PETROLEUM CO LTD  
JOB NO : 899046                      CONTACT: MR. ROCQUE GON  
CONTRACTOR : MCGREGOR GEOSCIENCES LTD.  
JOB NO : 89-14.5(P03/540)                      CONTACT: MR. TONY LAPIERRE  
REPORT TITLE: WELLSITE SURVEY REPORT,SOUTH ORKSOK SITE,MACKENZIE TROUGH, BEAUFORT SEA, 1990  
MARCH, (2 VOLS)

<u>COORDINATES</u> :	<u>MINIMUM</u>	<u>CENTRE</u>	<u>MAXIMUM</u>
UTM: ZONE:	8	8	8
EASTING:	407300	0	412800
NORTHING:	7712000	0	7717500
OR: LATITUDE:	0.00000	69.52333	0.00000
LONGITUDE:	0.00000	137.30958	0.00000

LOCATION:

	<u>GENERAL LOCATION</u>	<u>SITE PLAN</u>
NAME :	SOUTH ORKSOK	SOUTH ORKSOK
NUMBER:	FIG. 1	FIG. 2,3(ENCLOSURE 1,2)
SCALE :	1:1923100	1:10000
FORMAT:	PAPER COPY	BLUELINE
ARCHIV:	SPONSOR/CONTRACTOR	SPONSOR/CONTRACTOR/MCELHANNEY
DIG NO:	NA	NA

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS: 10 E-W LINES, 10 N-S LINES (INCLUDING A TIE-LINE)

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : GEOPHYSICAL  
SCOPE: ONE SITE  
LEVEL: SOIL/ROCK STRATIGRAPHY, ANOMALIES, GAS

SIZE : 20 LINES, 130 KM  
SURVEY PATTERN: IRREGULAR GRID  
SURVEY SPACING: IRREGULAR  
SEASON: SUMMER                      PROGRAM LENGTH: 6 DAYS, AUG 1-7 1989

EQUIPMENT : MULTI CHANNEL SEISMIC, SURFACE-TOWED BOOMER, SIDESCAN SONAR, SUB-BOTTOM PROFILER,  
ECHOSOUNDER, GRAB SAMPLER, GRAVITY CORER, SEA FLOOR CAMERA  
PENETRATION: 249M, (UNIT MT1A-CLAY, CLAY, CLAY & SILT-28.75M, UNIT MT1B-SILT & SAND 38.5M, SILT &  
CLAY-102M  
RESOLUTION : GOOD

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : 1MS, CONTINUOUS, CONTINUOUS, CHARTSPEED, SURFICIAL SAMPL  
QUALITY: GENERALLY GOOD  
TYPE : DIGITAL/ANALOG, ANALOG, ANALOG, ANALOG, ANALOG, GRAB, GC, PHOTOS  
SIZE : NA, NA, NA, NA, NA, 5 GRAB, 2 GC

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : SOIL/ROCK STRATIGRAPHY, GAS, CORRELATION TO EXISTING BHs (EBA)  
REPORT : FORMAL GEOPHYSICAL  
DISTRIB: SPONSOR/CONTRACTOR  
OTHER : EBA #0101C-4422, 0101C-4418

ARCHIVING OF INFORMATION:

REPORT : SPONSOR/CONTRACTOR/COGLA 9426-A4-3E  
DATA : SPONSOR/CONTRACTOR

DATA COMPILATION AND UPDATING:

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/05                      COMPILATION PROJECT NO.: 0306-34693  
UPDATED BY :  
DATE :                      UPDATE PROJECT NO.:



## STUDY NUMBER: GULF83SU MONTH: 8 YEAR: 1983

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SPONSOR      : GULF CANADA RESOURCES LTD.
JOB NO       : 1970-018             CONTACT: MR. CHRIS GRAHAM
CONTRACTOR   : GEOTERREX LTD.
JOB NO       : 031                 CONTACT: MR. BERNARD LAROCHE
REPORT TITLE : OFFSHORE GEOPHYSICAL SITE INVESTIGATION,SOUTH UKALERK SITE,BEAUFORT SEA,
              COMPILATION REPORT 1983,MARINE AND SUBBOTTOM SURVEY,1985 OCTOBER
COORDINATES : MINIMUM           CENTRE           MAXIMUM
UTM:  ZONE:      8                   8                   8
      EASTING:    572250              576215              580380
      NORTHING:   7772570            7777499            7780830
OR:  LATITUDE:   0.00000             70.09444             0.00000
      LONGITUDE:  0.00000            132.99444            0.00000

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<u>IDENTIFIER</u>	<u>GENERAL LOCATION</u>	<u>SITE PLAN</u>
NAME : SOUTH UKALERK		SOUTH UKALERK
NUMBER: FIG. 2		PLATE II
SCALE : 1:1176500		1:10000
FORMAT: PAPER COPY		PAPER COPY
ARCHIV: SPONSOR/CONTRACTOR		SPONSOR/CONTRACTOR
DIG NO: NA		NA

**SURVEY LINES / LOCATION DETAILS: 13 NE-SW 7 KM LINES AT 250M SPACING, 7 NW-SE LINES AT VARIABLE SPACING**

TYPE : GEOPHYSICAL  
SCOPE: ONE SITE  
LEVEL: SURFICIAL GEOLOGY, ANOMALOUS/STRUCTURAL FEATURES, GEOHAZARDS

SIZE : 20 LINES, 108.1 KM  
SURVEY PATTERN: IRREGULAR GRID  
SURVEY SPACING: 7 KM LINES AT 250M APART, TIE LINES VARIABLE  
SEASON: SUMMER PROGRAM LENGTH: 3 DAYS, AUG 12-14

EQUIPMENT : ECHOSOUNDER, SIDESCAN SONAR, SUB-BOTTOM PROFILER, SURFACE-TOWED BOOMER, AIR GUN  
ARRAY  
PENETRATION: 200M + (SILTY CLAY,SAND,CLAY,SANDY SILT,SAND)UPPER 40M SAND,SAND RIDGES  
RESOLUTION : GOOD

**RATE : CHARTSPEED,CONTINOUS,CONTINOUS,CONTINOUS,1MS (12.5M/TRACE)**  
**QUALITY: GOOD TO 80M**  
**TYPE : ANALOG,ANALOG,ANALOG,ANALOG,ANALOG**  
**SIZE : NA,NA,NA,NA,NA**

INTERP : BATHYMETRY, MORPHOLOGY, SEDIMENT THICKNESS, ISOPACHS, UNCONFORMITIES, GAS, PERMAFROST  
REPORT : FORMAL GEOPHYSICAL  
DISTRIB: SPONSOR/CONTRACTOR  
OTHER : EBA #0101-3867, GEOTERREX 93-31, 93-28 (2 VOLS)

REPORT : SPONSOR/CONTRACTOR  
DATA : SPONSOR/CONTRACTOR

DATE : 91/03/04      COMPILATION PROJECT NO.: 0306-34693  
 UPDATED BY :  
 DATE :      UPDATE PROJECT NO.:

BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

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STUDY NUMBER: GULF88AK3                      MONTH: 9      YEAR: 1988

SPONSOR : GULF CANADA RESOURCES LTD.  
JOB NO : 1970-023                      CONTACT: MR. BRIAN ROGERS  
CONTRACTOR : MCGREGOR GEOSCIENCES LTD.  
JOB NO : 88-27(P03/507)                      CONTACT: MR. TONY LAPIERRE  
REPORT TITLE: AMAULIGAK TO NORTH POINT PIPELINE CORRIDOR GEOPHYSICAL SURVEY, BEAUFORT SEA, 1989  
APRIL

<u>COORDINATES :</u>	<u>MINIMUM</u>	<u>CENTRE</u>	<u>MAXIMUM</u>
UTM:    ZONE:	8	8	8
EASTING:	525500	538750	552000
NORTHING:	7741500	7760400	7779300
OR: LATITUDE:	0.00000	0.00000	0.00000
LONGITUDE:	0.00000	0.00000	0.00000

LOCATION:

	<u>GENERAL LOCATION</u>	<u>SITE PLAN</u>
NAME :	AKPAK PLATEAU AND KUGHALLIT TR AMAULIGAK TO NORTH POINT	

NUMBER: FIG. 1	FIG. 2,6 (ENCLOSURE 1,2)
SCALE : 1:1562500	1:100000
FORMAT: PAPER COPY	BLUELINE
ARCHIV: SPONSOR/CONTRACTOR	SPONSOR/CONTRACTOR/CHALLENGER
DIG NO: NA	NA

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS: 7 DIP LINES ALONG 4 KM WIDE CORRIDOR, 9 STRIKE LINES

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : GEOPHYSICAL  
SCOPE: PROPOSED PIPELINE ROUTE  
LEVEL: REVISION AND UPDATE OF HIGH RES GEOPHYSICAL, BOREHOLE AND GEOTECH DATA (1983-88)

SIZE :                      16 LINES, 440 LINE-KM  
SURVEY PATTERN: LINE, GRID NEAR SOUTH END  
SURVEY SPACING: 600M BETWEEN DIP LINES  
SEASON: FALL                      PROGRAM LENGTH: 8 DAYS AUG 28-SEPT 5

EQUIPMENT : SIDESCAN SONAR, SURFACE-TOWED BOOMER, SUB-BOTTOM PROFILER, ECHOSOUNDER

PENETRATION: 65M+ (CLAY, SILTS, SANDS, SAND/SILT/CLAY-VARIOUS UNITS)

RESOLUTION : POOR TO GOOD

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : CONTINUOUS, CONTINUOUS, CONTINUOUS, CHARTSPEED  
QUALITY: POOR TO GOOD DEPENDING ON WATER DEPTH  
TYPE : ANALOG, ANALOG, ANALOG, ANALOG  
SIZE : NA, NA, NA, NA

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : INTERPRET SEISMIC DATA, CORRELATE WITH GT DATA, SOIL/ROCK STRATIGRAPHY, MAP PERMAFROST, SHA  
REPORT : FORMAL GEOPHYSICAL  
DISTRIB: SPONSOR/CONTRACTOR  
OTHER : EBA #0101-4724B, EBA #0101-4809, EBA #0101-4912B, GEOTERREX #107, MCGREGOR #85-76.2

ARCHIVING OF INFORMATION:

REPORT : SPONSOR/CONTRACTOR  
DATA : SPONSOR/CONTRACTOR

DATA COMPILATION AND UPDATING:

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/04      COMPILATION PROJECT NO.: 0306-34693  
UPDATED BY :  
DATE :                      UPDATE PROJECT NO.:

BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

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STUDY NUMBER: CHS868FT                      MONTH: 8      YEAR: 1986

SPONSOR : DEPT OF FISHERIES & OCEANS, CHS  
JOB NO : FP941-0-6-0327      CONTACT: MR. GEORGE EATON  
CONTRACTOR : TERRA SURVEYS LTD.  
JOB NO :                      CONTACT: J.A.VOSBURGH  
REPORT TITLE: FINAL FIELD REPORT, 1986 LARSEN LIDER SURVEY, SIMPSON STRAIT AND REQUISITE CHANNEL

<u>COORDINATES :</u>	<u>MINIMUM</u>	<u>CENTRE</u>	<u>MAXIMUM</u>
UTM:    ZONE:	0	0	0
EASTING:	0	0	0
NORTHING:	0	0	0
OR: LATITUDE:	0.00000	0.00000	0.00000
LONGITUDE:	0.00000	0.00000	0.00000

LOCATION:

	<u>GENERAL LOCATION</u>	<u>SITE PLAN</u>
NAME :	SIMPSON STRAIT	REQUISITE CHANNEL
NUMBER:	1	2
SCALE :	1:250000	1:250000
FORMAT:	PAPER COPY	PAPER COPY
ARCHIV:	SPONSOR/CONTRACTOR	SPONSOR/CONTRACTOR
DIG NO:	NA	NA

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS:

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : HYDROGRAPHIC  
SCOPE: REGIONAL  
LEVEL: AIR COVERAGE OF SIMPSON STRAIT STARTED 1985, NEW FOR REQUISITE CHANNEL

SIZE :                      NA  
SURVEY PATTERN:    IRREGULAR GRID  
SURVEY SPACING:    IRREGULAR  
SEASON: SUMMER/FALL                      PROGRAM LENGTH: JULY 23 - SEPT 13

EQUIPMENT : AIR LIDAR, TRANSPONDERS, TIDE GAUGE, GPS

PENETRATION: BATHMETRY - SURFACE

RESOLUTION : GENERALLY GOOD

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : NA  
QUALITY: VARIABLE, DEPENDING ON WEATHER  
TYPE : NA  
SIZE : NA

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : BATHYMETRY  
REPORT : FIELD REPORT  
DISTRIB: SPONSOR/CONTRACTOR  
OTHER :

ARCHIVING OF INFORMATION:

REPORT : SPONSOR/CONTRACTOR  
DATA : SPONSOR/CONTRACTOR

DATA COMPILATION AND UPDATING:

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/26      COMPILATION PROJECT NO.: 0306-34693  
UPDATED BY :  
DATE :                      UPDATE PROJECT NO.:

BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

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STUDY NUMBER: CHS888FT                      MONTH: 8      YEAR: 1988

SPONSOR : DEPT OF FISHERIES & OCEANS, CHS  
JOB NO :                      CONTACT: MR. GEORGE EATON  
CONTRACTOR : DEPT OF FISHERIES & OCEANS, CANADIAN HYDROGRAPHIC SERVICE  
JOB NO : 7710-88                      CONTACT: MR. GEORGE EATON  
REPORT TITLE: 1988 FINAL FIELD REPORT, WESTERN ARCTIC SURVEYS, PACIFIC REGION, BEAUFORT SEA

	<u>MINIMUM</u>	<u>CENTRE</u>	<u>MAXIMUM</u>
UTM: ZONE:	8	8	8
EASTING:	0	0	0
NORTHING:	0	0	0
OR: LATITUDE:	0.00000	0.00000	0.00000
LONGITUDE:	0.00000	0.00000	0.00000

LOCATION:

	<u>GENERAL LOCATION</u>	<u>SITE PLAN</u>
NAME :	BS	BS
NUMBER:	PLATE 1	WA 10184, WA10184/1-10 (PLATE 4,5)(1
SCALE :	1:16150000	1:100000
FORMAT:	PAPER COPY	MYLAR
ARCHIV:	SPONSOR	SPONSOR
DIG NO:	NA	NA

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS: SURVEY BLOCK BOUNDED ON NORTH BY 1983 SHIPPING CORRIDOR SURVEY  
ON THE EAST BY 1986 SURVEY AND SOUTH BY 1985 SURVEY

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : HYDROGRAPHIC, GEOPHYSICAL  
SCOPE: REGIONAL, NAVIGATION CHART  
LEVEL: CONTINUATION OF SURVEYS CONDUCTED IN 1985, 1986 TO DETECT SHOALS, HAZARDS

SIZE : 24390 LINE-KM, 1472.8 KM, 6 SHOALS  
SURVEY PATTERN: N-S LINES  
SURVEY SPACING: 100M  
SEASON: SUMMER/FALL                      PROGRAM LENGTH: 36 DAYS, JULY 11-SEPT 25

EQUIPMENT : ECHOSOUNDER, RAYTHEON, DSF-600+PTR, 5 SIMRAD  
SKIPPER, MEYERS; NAVIG: ARGO/TRISPONDER, SYLEDIS; GEOPH: KLEIN SIDESCAN SONAR, SUB-BOTTOM  
PENETRATION: PROFLER  
BATHYMETRIC DATA-SURFACE, GP  
RESOLUTION : GOOD

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : CHARTSPEED FOR SOUNDERS, CONTINUOUS FOR NAVIG  
QUALITY: GENERALLY GOOD DEPENDING ON WEATHER  
TYPE : DIGITAL, ANALOG  
SIZE : NA

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : BATHYMETRIC CONTOURS, ICE SCOURS  
REPORT : SEASON FIELD REPORT  
DISTRIB: SPONSOR  
OTHER : 1983, 85, 86, 89 REPORTS FOR ADJOINING REGIONS (CHS), 1988 AGS/GSC REPORT OF ICE SCOURS  
HERSCHEL

ARCHIVING OF INFORMATION:

REPORT : SPONSOR  
DATA : SPONSOR

DATA COMPILATION AND UPDATING:

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/06      COMPILATION PROJECT NO.: 0306-34693  
UPDATED BY :  
DATE :                      UPDATE PROJECT NO.:

BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

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STUDY NUMBER: CHS89BFT                      MONTH: 8      YEAR: 1989

SPONSOR : DEPT OF FISHERIES & OCEANS, CHS  
JOB NO :    CONTACT: MR. GEORGE EATON  
CONTRACTOR : DEPT OF FISHERIES & OCEANS, CANADIAN HYDROGRAPHIC SERVICE  
JOB NO : 7710-89                                      CONTACT: MR. GEORGE EATON  
REPORT TITLE: FINAL FIELD REPORT 1989, SURVEYS IN THE BEAUFORT SEA

<u>COORDINATES :</u>	<u>MINIMUM</u>	<u>CENTRE</u>	<u>MAXIMUM</u>
UTM: ZONE:	8	8	8
EASTING:	0	0	0
NORTHING:	7748000	0	0
OR: LATITUDE:	69.91667	0.00000	0.00000
LONGITUDE:	135.91667	0.00000	0.00000

LOCATION:

	<u>GENERAL LOCATION</u>	<u>SITE PLAN</u>
NAME : BS		BS, 1:200000 SOUNDING SHEET SCHEME
NUMBER: FIG. 1		FIG. 2
SCALE : 1:657500		1:
FORMAT: PAPER COPY		PAPER COPY
ARCHIV: SPONSOR		SPONSOR
DIG NO: NA		NA

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS: SURVEY BLOCK BOUNDED ON NORTH BY 1983 SHIPPING CORRIDOR SURVEY,  
ON EAST BY 1988 SURVEY AND PART OF SOUTH BY 1985 SURVEY

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : HYDROGRAPHIC  
SCOPE: REGIONAL, NAVIGATION CHART  
LEVEL: CONTINUATION OF SURVEYS CONDUCTED IN 1985, 86, 88 FOR DETECTION OF SHOALS, HAZARDS

SIZE : 29,039 LINE-KM, 2750 SQKM, 27 SHOALS  
SURVEY PATTERN: N-S LINES  
SURVEY SPACING: 100M LINE SPACING  
SEASON: SUMMER/FALL                      PROGRAM LENGTH: JULY 10-SEPT 29

EQUIPMENT : ECHOSOUNDER, RAYTHEON DSF-6000, RAYTHEON PTR, 5 SIMRAD SKIPPER, NAVIG: ARGO/TRISPONDER

PENETRATION: BATHYMETRIC DATA-SURFACE

RESOLUTION : GOOD

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : CHARTSPEED FOR SOUNDERS, CONTINUOUS FOR NAVIG  
QUALITY: GENERALLY GOOD DEPENDING ON WEATHER  
TYPE : DIGITAL, ANALOG  
SIZE : NA

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : BATHYMETRIC CONTOURS FROM RAW DATA  
REPORT : SEASON FIELD REPORT  
DISTRIB: SPONSOR  
OTHER : 1983, 1985, 1986 & 1988 REPORTS FOR ADJOINING SHIPPING CORRIDOR AND REGIONS (CHS)

ARCHIVING OF INFORMATION:

REPORT : SPONSOR  
DATA : SPONSOR

DATA COMPILATION AND UPDATING:

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/06      COMPILATION PROJECT NO.: 0306-34693  
UPDATED BY :  
DATE :                      UPDATE PROJECT NO.:

BEAUFORT SEA  
INDIAN AND NORTHERN AFFAIRS CANADA  
CATALOGUE OF GRANULAR RESOURCE-RELATED INFORMATION

=====

STUDY NUMBER: CHS90BFT                      MONTH: 8      YEAR: 1990

SPONSOR : DEPT OF FISHERIES & OCEANS, CHS  
JOB NO :                      CONTACT: MR. GEORGE EATON  
CONTRACTOR : TERRA SURVEYS LTD.  
JOB NO :                      CONTACT: J.A.VOSBURGH  
REPORT TITLE: FINAL PROJECT REPORT, 1990 LIDAR SURVEY, DOLPHIN AND UNION STRAIT WESTERN ARCTIC

COORDINATES :	MINIMUM	CENTRE	MAXIMUM
UTM: ZONE:	0	0	0
EASTING:	0	0	0
NORTHING:	0	0	0
OR: LATITUDE:	0.00000	0.00000	0.00000
LONGITUDE:	0.00000	0.00000	0.00000

LOCATION:

	GENERAL LOCATION	SITE PLAN
NAME :	DOLPHIN & UNION STRAIT	DOLPHIN & UNION STRAIT,
NUMBER:	1,2,3	FS1-FS10 (FS=FIELD SHEET)
SCALE :	1:350000	1:20000
FORMAT:	PAPER COPY	PAPER COPY
ARCHIV:	SPONSOR/CONTRACTOR	SPONSOR/CONTRACTOR
DIG NO:	NA	NA

SOURCE NUMBER(S):

SURVEY LINES / LOCATION DETAILS: 16 PHOTO FLIGHTLINES

DESCRIPTION OF STUDY AND SURVEY DETAILS:

TYPE : HYDROGRAPHIC  
SCOPE: REGIONAL  
LEVEL: AIR PHOTO RECONNAISSANCE, GROUND TRUTHING

SIZE : 16 LINES, NA  
SURVEY PATTERN: PARALLEL LINES  
SURVEY SPACING: 3000M  
SEASON: SUMMER                      PROGRAM LENGTH: AUGUST

EQUIPMENT : AIR LIDAR, PHOTOGRAMMETRY, GPS

PENETRATION: BATHMETRY - SURFACE

RESOLUTION : GOOD

INFORMATION ON SAMPLES OR SURVEY RECORDS:

RATE : NA  
QUALITY: GENERALLY GOOD  
TYPE : NA  
SIZE : NA

LEVEL OF DETAIL: INTERPRETATION/ANALYSIS/REPORTING:

INTERP : BATHYMETRY, GEOMORPHOLOGY  
REPORT : FIELD REPORT  
DISTRIB: SPONSOR/CONTRACTOR  
OTHER :

ARCHIVING OF INFORMATION:

REPORT : SPONSOR/CONTRACTOR  
DATA : SPONSOR/CONTRACTOR

DATA COMPILATION AND UPDATING:

COMPILED BY: EBA ENGINEERING CONSULTANTS LTD.  
DATE : 91/03/26      COMPILATION PROJECT NO.: 0306-34693  
UPDATED BY :  
DATE :                      UPDATE PROJECT NO.:

**APPENDIX C**  
**BOREHOLE/COREHOLE/SURFICIAL SEDIMENT LOG**  
**SOURCE REPORTS**

0306-34693

**BEAUFORT SEA PROJECTS FOR  
ARCTIC PETROLEUM OPERATORS ASSOCIATION (APOA)**

DATE (YR/MO)	REPORT TITLE	CONSULTANT NAME	CONSULTANT JOB NO.
70-?	1970 Bottom Sampling Program, South Coast of Beaufort Sea - MacKenzie Bay to Liverpool Bay, NWT	Golder*	--
?	Ocean Floor Sampling	ESSO	APOA #3
?	Survey of Gravel - MacKenzie Delta	ESSO	APOA #42
76-03	Gravel Testing Program - Ya Ya Lake (proposed)	ESSO	APOA #88

\* Golder, Brawner and Associates





0306-34693

BEAUFORT SEA PROJECTS FOR  
AMOCO PETROLEUM CANADA COMPANY LTD.

DATE (YR/MO)	REPORT TITLE	CONSULTANT NAME	CONSULTANT JOB NO.
79-07	Geotechnical Design Parameters for proposed Canmar Base Camp Rock in Tuktoyaktuk Harbour NWT.	EBA	0302-0610
81-07	1981 Offshore Geotechnical Site Investigation South Tarsiut Borrow Area, Beaufort Sea	EBA & McClelland	0101-3210•
82-07	1982 Offshore Geotechnical Site Investigation Baillie Island Gravel Search, Beaufort Sea	EBA	0101-3605•
85-07	Wellsite Seabed Survey, Adlartok Site, MacKenzie Trough, 1986 June, (1 vol.)	McGregor*	85-45.1 (P14/297)
88-07	Wellsite Survey Report, Aagnerk Site, MacKenzie Trough, Beaufort Sea, 1989 April (2 vols.)	McGregor	88-11.1 (P02/500)
88-07	Wellsite Survey Report, Kingark Site, MacKenzie Trough, Beaufort Sea, 1989 April (2 vols.)	McGregor	88-11.2 (P02/502)
88-08	Wellsite Survey Report, Orksok Site, MacKenzie Trough, Beaufort Sea, 1989 June, (2 vols.)	McGregor	88-11.3 (P02/503)
88-08	Wellsite Survey Report, South Adlartok Site, MacKenzie Trough, Beaufort Sea, 1989 June (2 vols.)	McGregor	88-11.4 (P02/518)

\* McGregor Geosciences Ltd.

• Logs included 1989



BEAUFORT SEA PROJECTS FOR  
AMOCO PETROLEUM CANADA COMPANY LTD.

DATE (YR/MO)	REPORT TITLE	CONSULTANT NAME	CONSULTANT JOB NO.
88-08	Wellsite Survey Report, Immerark Site, MacKenzie Trough, Beaufort Sea, 1989 June (2 vols.) (also includes Inukpak Site)	McGregor	88-11.5 (P03/520)
89-08	Wellsite Survey Report, Tiregluit Site, Yukon Shelf, MacKenzie Trough, Beaufort Sea, 1989 December (2 vols.)	McGregor	89-11.1 (P03/533)
89-08	Wellsite Survey Report, Sartok Site, MacKenzie Trough, Beaufort Sea, 1990 July (2 vols.)	McGregor	89-11.2 (P02/545)
89-08	Wellsite Survey Report, South Kogyuk Site, Tingmiark Plain, Beaufort Sea, (2 vols.)	McGregor	89-11.3 (P02/537)
89-08	Wellsite Survey Report, South Immerark Site, MacKenzie Trough, Beaufort Sea (2 vols.)	McGregor	89-14.4 (P02/542)
89-08	Wellsite Survey Report, South Orksok Site, MacKenzie Trough, Beaufort Sea, 1990 March (2 vols.)	McGregor	89-14.5 (P03/540)



0306-34693

BEAUFORT SEA PROJECTS FOR  
ESSO RESOURCES CANADA LTD. / IMPERIAL OIL LTD.

DATE (YR/MO)	REPORT TITLE	CONSULTANT NAME	CONSULTANT JOB NO.
72-?	Soil Drilling Program-MacKenzie Delta, 1972	Cook*	--
72-05	1972 Soil Drilling Program, Delta of MacKenzie River, NWT	ESSO	2739-04
72-?	Results of Shallow Profiling Program Conducted to the North of Richards Island, 1972	Pemcan <sup>^</sup>	--
73-	Soil Engineering Report-Beaufort Sea-Northwest of Richards Island, 1973	Cook*	--
83-07	1983 Offshore Geotechnical Site Investigation Issigak Borrow Site, Beaufort Sea	EBA	0101-3868
83-?	1983 Offshore Borrow Quality Monitoring, Issigak	EBA	0101-3897
84-?	1984 Borrow Investigation - Johnson, Gordon	ESSO	M-1025-704
87-01	Verification Testing and Instrument Installations, Angasak L-03 Spray, Ice Island, 1987 July	Golder <sup>#</sup>	862-2072
89-01	Verification Testing and Instrument Installations, Nipterk P-32 Spray, Ice Island, Beaufort Sea, NWT, 1990 April	Golder <sup>#</sup>	882-2105

\* Cook, Pickering & Doyle

<sup>^</sup> Pemcan Services Ltd.

<sup>#</sup> Golder Associates

• Logs included in 1989



0306-34693

**BEAUFORT SEA PROJECTS FOR  
GULF CANADA RESOURCES LTD.**

DATE (YR/MO)	REPORT TITLE	CONSULTANT NAME	CONSULTANT JOB NO.
82-09	1982 Offshore Geotechnical site Investigation, Herschel Borrow Site, Beaufor Sea	EBA	0101-3662•
82-09	1982 Offshore Geotechnical Site Investigation, Kringalik Site, Beaufort Sea	EBA	0101-3658*
82-08	1982 Offshore Geotechnical Site Investigation, Ukalerk Borrow Site, Beaufor Sea	EBA	0101-3659•
82-09	1982 Offshore Geotechnical Site Investigation, Isserk Borrow Site, Beaufort Sea	EBA	0101-3686•
83-08	Offshore Geophysical Site Investigation, South Ukalerk Site, Beaufort Sea, Compilation Report 1983, Marine and Subbottom Survey, 1985 October	Geoterrex	031
88-04	1988 Offshore Geotechnical Site Investigation, Proposed North Point Pipeline Route, Beaufort Sea, 1988 June	EBA	0101-4809
88-08	1988 Offshore Geotechnical Site Investigation, Proposed Pipeline Route, Beaufort Sea, 1989 January	EBA	0101-4912B
88-08	1988 Offshore Geotechnical Site Investigation, Nerlerk Berm B-67 Beaufort Sea, Canada, 1989 January	EBA	0101-4912C*



\*Golder Associates

\* Indicates reports for which logs are not included in the database

• Logs included in 1989

0306-34693

**BEAUFORT SEA PROJECTS FOR  
GULF CANADA RESOURCES LTD.**

DATE (YR/MO)	REPORT TITLE	CONSULTANT NAME	CONSULTANT JOB NO.
88-08	Summer 1988 Offshore Site Investigation, Proposed Molikpaq Set Down Location, Herschel Basin, Beaufort Sea, 1988 November	EBA	0101-4912A
88-08	1988 Offshore Geotechnical Site Investigation, Amauligak B-46, and D-32, Beaufort Sea, Canada, 1989 January	EBA	0101-4912D
88-08	Summer 1988 Offshore Geotechnical Site Investigation, Issigak, Minuk, Akpak Plateau, and Nipsterk Borrow Sites, Beaufort Sea, February	EBA	0101-4912E
88-09	Amauligak to North Point Pipeline Corridor Geophysical Survey, Beaufort Sea, 1989 April	McGregor <sup>a</sup>	88-27 (P03/507)
89-08	1989 Offshore Geotechnical Site Investigation, South Ukalerk, Beaufort Sea	EBA	0101-10168
89-09	Site Investigation for Isserk I-15 Site, Akpak Plateau, Beaufort Sea, 1990 January (for Gulf and Esso)	Golder*	892-2069B

<sup>a</sup> McGregor Geosciences Ltd.



0306-34693

**BEAUFORT SEA PROJECTS FOR  
GEOLOGICAL SURVEY OF CANADA (GSC)**

DATE (YR/MO)	REPORT TITLE	CONSULTANT NAME	CONSULTANT JOB NO.
70-04	Surficial Deposits, Herschel Island, Yukon Territory	GSC	71-01A*
71-04	Geological Structure of the Mackenzie Canyon Area of the Beaufort Sea - J.M. Shearer	GSC	72-01A*
72-04	Surficial Geology and Geomorphology, Mackenzie Bay - Continental Shelf - J.M. Shearer	GSC	73-01A*
74-?	The occurrence of permafrost and frozen subsea bottom materials in the Southern Beaufort Sea, 1976	GSC/EPB	TR#22*
75-12	Sediment Dispersal in the Southern Beaufort Sea, 1975 December	GSC	TR#25a*
82-?	Computer Database of Borehole Logs, Beaufort Sea; Arctic Kiggiak, Beaufort 1984, Kingpoint 1985, Nahidik 1982, Nahidik 1983, Nahidik 1985, Nahidik 1986	GSC	-!
83-?	Development of a Proposed Model to Account for the Surficial Geology of the Southern Beaufort Sea	MJ O'Connor	GSC 00954*
84-?	Marine Science Atlas of the Beaufort Sea, Sediments-B.R. Pelletier	GSC	Misc. Report #38*
86-?	Coastal Video Survey: Canadian Beaufort Sea Coast	GSC	01256*

! Not all logs in GSC database have been included in EBA database

\* No logs included in database



0306-34693

BEAUFORT SEA PROJECTS FOR  
GEOLOGICAL SURVEY OF CANADA (GSC)

DATE (YR/MO)	REPORT TITLE	CONSULTANT NAME	CONSULTANT JOB NO.
87-?	Marine Science Atlas of the Beaufort Sea, Geology and Geophysics - B.R. Belletier	GSC	Misc. * Report #40
87-10	Beaufort Sea Coastal Sediment Study Evaluation of Inshore Climate and Coastal Sediment Transport Techniques at King Point, Yukon	KPC*	
90-?	Beach Morphodynamics and Sediment Transport at Tibjak Beach, Canadian Beaufort Sea Coast - Hequette et al	GSC	02280*

\* No logs included in database

\* Keith Philpott Consulting Ltd. 1987



0306-34693

**BEAUFORT SEA PROJECTS FOR  
CANADIAN HYDROGRAPHIC SERVICE**

DATE (YR/MO)	REPORT TITLE	CONSULTANT NAME	CONSULTANT JOB NO.
86-08	Final Field Report, 1986 Larsen Lidar Survey, Simpson Strait and Requisite Channel	Terra Surveys	--
88-08	1988 Final Field Report, Western Arctic Surveys, Pacific Region, Beaufort Sea	CHS	7710-88
89-08	Final Field Report, 1989, Surveys in the Beaufort Sea	CHS	7710-89
90-08	Final Project Report, 1990 Lidar Survey, Dolphin and Union Strait, Western Arctic	Terra Surveys	--





**APPENDIX D**  
**ADDITIONAL REFERENCES**

0306-34693

**BEAUFORT SEA PROJECTS FOR  
ARCTIC PETROLEUM OPERATORS ASSOCIATION (APOA)**

DATE (YR/MO)	REPORT TITLE	CONSULTANT NAME	CONSULTANT JOB NO.
?	Geological Analysis of Ocean Floor Samples	Gulf	APOA #4
?	Submarine Pipeline Study Offshore Mackenzie Delta	ESSO	APOA #39
71-05	Investigation of Seabed Scouring in the Beaufort Sea	APOA	#19
?	Soil Strength of Beaufort Sea Samples by GSC	Gulf	APOA #23



0306-34693

**BEAUFORT SEA PROJECTS FOR  
BEAUFORT-DELTA OIL PROJECT LTD. (GULF, ESSO, SHELL, IPL, TRANS MOUNTAIN PL)**

DATE (YR/MO)	REPORT TITLE	CONSULTANT NAME	CONSULTANT JOB NO.
76-02	Geotechnical Review of Arctic Petroleum Operators Association Report No. 39, (Major Task No. 06)	EBA	3-0090
76-	Offshore Pipeline Activities, 1975-1976 Part 1 - Background Reports (1 vol.), Part 2 - Some Geotechnical, Geophysical, Geothermal, and Environmental Aspects of the Southern Beaufort Sea (3 vols.)	EBA	3-0177
76-05	MacKenzie Bay Geotechnical Information, A Review for Marine Pipeline Studies, 1976 May	EBA	<u>3-0150</u> 3-0177



0306-34693

BEAUFORT SEA PROJECTS FOR  
ESSO RESOURCES CANADA LTD. / IMPERIAL OIL LTD.

DATE (YR/MO)	REPORT TITLE	CONSULTANT NAME	CONSULTANT JOB NO.
78-05	Seismic Interpretation of Issungnak/Isserk North, 1978 May 03	EBA	36-0334



0306-34693

BEAUFORT SEA PROJECTS FOR  
GEOLOGICAL SURVEY OF CANADA (GSC)

DATE (YR/MO)	REPORT TITLE	CONSULTANT NAME	CONSULTANT JOB NO.
86-07	Beaufort Sea Coastal Morphology Study	DSL*	1-1155-1

\* Dobrocky Seatech Ltd.



0306-34693

**BEAUFORT SEA PROJECTS FOR  
INDIAN AND NORTHERN AFFAIRS CANADA**

DATE (YR/MO)	REPORT TITLE	CONSULTANT NAME	CONSULTANT JOB NO.
87-04	Synthesis and Interpretation of Bathymetric, Geophysical, and Geotechnical Data from Issigak Borrow Block, 1987 April	EBA	0301-34241

