

# Rules for field work and reporting regarding mineral resources (excluding hydrocarbons) in Greenland

Government of Greenland  
Bureau of Minerals and Petroleum

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## UNOFFICIAL TRANSLATION

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#### **Introduction**

1. The rules apply to licensees' field activities regarding mineral resources (excluding hydrocarbons) in Greenland and to reporting to the Greenland Home Rule Government's Bureau of Minerals and Petroleum (BMP) about the activities and their results. The rules have been prepared in cooperation with the Geological Survey of Denmark and Greenland (GEUS) and the National Environmental Research Institute (NERI). The rules are prepared under article 24 of the Mineral Resources Act. The rules will be adjusted and extended when necessary.

2. The rules should be regarded along with the provisions in articles 7-10 of the Standard Terms for prospecting and exploration licences for minerals as regards: a. approvals, etc. of licensees' activities (article 7) b. BMP's inspection of such activities (article 8) c. the licensees' obligations at the termination of the activities (article 9) d. the licensees' reporting to BMP (article 10)

3. Pursuant to article 7 of the Standard Terms, some activities are not subject to BMP's approval, cf. section 1.01.03 of the rules. All other activities are subject to BMP's approval, cf. section 1.01.04 of the rules. Pursuant to article 8 of the Standard Terms, BMP may undertake inspection of the licensees' activities and may appoint other parties to carry out the inspection. Pursuant to article 9 of the Standard Terms, a licensee shall, at the termination of the activities, carry out final clean up activities and removal of buildings, installations, etc. Pursuant to article 10 of the Standard Terms, reporting shall be forwarded to BMP regarding the activities. Thus, in connection with the provisions of the Mineral Resources Act and the Standard Terms, the rules indicate the framework for the licensees' performance of field activities and reporting to BMP about the activities.

4. Some of the provisions include relevant legislation - see e.g. subchapter 1.03 - without, however, replacing the legislation in force in these respects. Thus, in general, BMP's regulation including approvals does not exempt the licensee from obtaining approvals or permits which are necessary according to legislation other than the Mineral Resources Act.

5. The rules have been prepared in Danish and in an unofficial English translation.

#### **1. Field work in general**

## **1.01. General matters**

1.01.01. Chapter 1 contains those general provisions which apply to all field work. In addition to those provisions the provisions in chapters 2-3 for certain geographical areas and the provisions in chapters 4-6 for certain types of field work apply as follows:

- a** provisions for important areas for wildlife (chapter 2)
- .
- b** provisions for the National Park in North and East Greenland and other
  - . preserved areas (chapter 3)
- c** provisions for diamond drilling and other drilling operations (chapter 4)
- .
- d** provisions for driving with motorized vehicles (chapter 5)
- .
- e** provisions for import, transportation, storage and use of explosive materials
  - . (chapter 6)
- f** Furthermore, the provisions in chapter 7 regarding reporting apply.
- .

1.01.02. Field work shall be carried out with due concern to the following:

- a.** activities shall be carried out in a safe and proper manner and taking into consideration the actual conditions
- b.** wildlife shall not be disturbed unnecessarily
- c.** surface and vegetation shall not unnecessarily be damaged. At sampling in areas covered by vegetation the turf shall be removed from the place of sampling. After sampling the turf shall be returned to the refilled hole
- d.** the risks of pollution and other harmful effects on the environment shall be reduced as much as possible
- e.** the work shall not expose other persons or third-party property to danger
- f.** other parties' hunting, catching, fishing or other activities shall not be prevented or unnecessarily impeded
- g.** archaeological sites, surveying fixpoints, measuring stations and other installations shall not be exposed to damage

1.01.03. The following activities are not subject to BMP's approval, cf. however chapters 2-3

- a.** geological and geochemical investigations as well as sampling using handheld equipment for laboratory testing, provided samples from each locality do not exceed
  - 0,5 tonnes for prospecting licences, or
  - 3 tonnes for exploration licences and provided the total weight of all samples do not exceed
  - 3 tonnes per year for prospecting licences, or
  - 10 tonnes per year for exploration licences
- b.** drilling with hand held equipment
- c.** geophysical investigations performed without using explosives and detonators

1.01.04. Except for the activities indicated in section 1.01.03 all other activities are subject to BMP's approval including

- a. use of explosive materials, cf. chapter 6
- b. drilling operations except drilling operations under section 1.01.03.cf. chapter 4
- c. sampling exceeding sampling under section 1.01.03.a
- d. use of equipment containing radioactive sources
- e. use of vehicles, earth moving equipment, etc., cf. i.a. chapter 5
- f. levelling of the terrain (i.e. landing strips, temporary work roads) and reestablishment of installations, buildings, etc., cf. i.a. section 1.02.02
- g. establishing of shafts, drifts, ramps, etc

1.01.05. As part of the approvals in section 1.01.04, BMP may request that the licensee's activities under a licence shall be covered by insurance including a third party liability insurance which at all times provides coverage of the potential insurance events. The insurance is subject to BMP's approval.

1.01.06. As part of the basis for the approvals under section 1.01.04, BMP may request that the licensee prepares an environmental impact assessment of the planned activities. This environmental impact assessment shall be included in the material to be submitted by the licensee to BMP for approval of the activities. In particular this provision aims at activities which are expected to have environmental impacts, for example due to their character, extent, location and timing.

1.01.07. BMP's regulation including approvals does not exempt the licensee from obtaining approvals or permits which are necessary according to other legislation than the Mineral Resources Act.

## **1.02. Aviation, driving and navigation**

1.02.01. Aviation may as a main rule be carried out without special provisions, however special provisions apply to the areas defined in chapters 2-3.

1.02.02. Construction of temporary or permanent air strips, on terrain or on ice, using dozer or other earth moving equipment is subject to BMP's approval.

1.02.03. Driving with motorized vehicles as part of the field work is subject to BMP's approval, cf. chapter 5.

1.02.04. Navigation with ships or other vessels as part of the field work may as a main rule be carried out without special provisions, however special provisions apply for the areas defined in chapters 2-3. Also the provisions in sections 1.02.05-1.02.08 apply.

1.02.05. Navigation with icebreaking vessels as part of the field work is subject to BMP's approval.

1.02.06. The following provisions apply for navigation with dinghies, rubber boats, etc. as part of field work

- a. navigation shall be carried out under conditions where the navigation can be carried out in a safe manner
- b. during navigation, the crew shall wear life jackets and in harsh weather survival suits

1.02.07. The following provisions apply in addition to section 1.02.06 for regular navigation between

areas

- a. during navigation between working areas and the field camp a standby boat shall be ready for quick use as a rescue boat in an emergency
- b. with a view to the situation that navigation from a working area to the field camp cannot be carried out due to harsh weather, tents, sleeping bags, food, etc. shall be stored in the working area so that the crew can stay overnight in a safe and proper manner

1.02.08. Waste shall not be disposed in the sea or in fresh water from ships and other vessels.

### **1.03. Archaeological sites, artifacts, etc.**

1.03.01. Archaeological sites (for example ruins, dwelling sites, tent rings, kitchen middens, graves, stone structures, etc.) are preserved, and must not be damaged, changed or moved. Digging, making fires, camping or establishing installations in or at archaeological sites is not permitted. Artifacts having relation to archaeological sites shall be left untouched.

1.03.02. Activities that may damage archaeological sites must not be carried out within a distance of 20 metres from these sites.

1.03.03. If an archaeological site is discovered during field work the field work shall be stopped to the extent it affects the archaeological site and the Greenland National Museum and Archives (cf. the address in enclosure 1.01) shall be notified of the discovery.

1.03.04. If artifacts in or on the ground are discovered during field work the discovery shall be reported to the Greenland National Museum and Archives. The finder shall neither pick up nor disturb the artifacts.

1.03.05. Muskox skulls, reindeer antlers, etc. shall not be picked up.

### **1.04. Telecommunication**

1.04.01. Before field work is commenced, it is recommended that a telecommunication system is established, so that a doctor and helicopter can quickly be summoned from the field, or communication be established with a base station which can give the alarm in case of accidents.

1.04.02. It is recommended that the telecommunication system be supplemented with a COSPAS/SARSAT emergency wireless direction finder, ELT 121.5/243 MHz. The emergency wireless direction finder shall only be used in potentially lethal situations, and, in such case, only when all other communication fails. The emergency wireless direction finder shall not be stored in the field outside of working periods.

1.04.03. The telecommunication system shall be operated by a person holding a certificate for same. Several persons shall, in such case, be instructed in the use of the system and of the emergency wireless direction finder, so that alarm can be given at any time.

1.04.04. Telecommunication shall take place in accordance with the regulations in force at any time, and any necessary permits shall be obtained from TELE Greenland A/S (cf. the address in enclosure 1.01).

## **1.05. Fuel and fuel containers in the field**

1.05.01. All fuel containers shall be marked in such a way that the type of fuel contained and the owner of every single container can easily be identified. Ownership shall be marked on fuel containers owned by the licensee as well as on fuel containers owned by any contractor working for the licensee.

1.05.02. Fuel in the field shall be stored in steel drums with a volume of less than 250 litres, unless BMP approves otherwise.

1.05.03. Fuel stores shall be placed on firm, dry and level ground, and to the extent possible at least 100 m away from lakes and major streams. When storing at a location close to the sea it shall furthermore be ensured that flooding will not occur at abnormal high water level caused by calving icebergs, etc.

1.05.04. Large fuel stores shall be divided up, so that each type of fuel is stored in a separate section. The distance between the individual sections shall be at least 10 m.

1.05.05. Fuel stores shall be surrounded by a safety zone of at least 20 m. Within the safety zone only activities needed for the store's operation are permitted.

1.05.06. At stores, where fuel is drawn regularly, a 12 kg frost proof, manually operated fire extinguisher shall be placed within a distance of max. 25 m.

1.05.07. At the end of each exploration period any excess fuel and all empty fuel containers shall be handled according to the following:

- a. any excess fuel and all empty fuel containers shall as a main rule be removed from the exploration area
- b. if the licensee plans to continue the activities in the area in a later year stores of fuel may be stored temporarily in the field as indicated in sections 1.05.01-1.05.04, cf. section 1.08.02
- c. in connection with fuel stores under point b. empty fuel containers may, to a smaller extent, be stored temporarily in the field, cf. section 1.08.02

## **1.06. Camps in the field**

1.06.01. The individual camp units shall be chosen considering arctic conditions with high wind speeds, low temperatures, and in winter also snow pressure, etc.

1.06.02. The camp units shall be put up taking into consideration predominant wind directions and the risk of fire and spreading of fire.

1.06.03. At camp units used for cooking or eating and in units with communication equipment for alarm call, a frost proof, manually operated fire extinguisher of a suitable size shall be placed. At camp units used for staying or accommodation of persons, a frost proof, manually operated fire extinguisher of a suitable size shall be placed within a distance of max. 25 m.

1.06.04. It is recommended that camp units are equipped with fire blankets measuring 1 x 2 m to be

mounted in a cover and hung up at suitable places.

1.06.05. Apparatus for heating, cooking, etc. shall be placed in such a way that the risk of fire, explosion, poisoning or other accidents are reduced as much as possible.

1.06.06. In camp units containing oil stoves or other installations consuming oxygen, the ventilating conditions shall be arranged accordingly.

## **1.07. Waste**

1.07.01. Treatment and storage of waste products shall take place in an adequately hygienic way, and so that the waste products are not scattered by the wind and do not attract or are accessible to wildlife.

1.07.02. Combustible waste products shall be burned or transported to an approved dumping site. To the extent possible, burning shall take place in steel drums.

1.07.03. Waste oil and oil-containing waste products shall be burned in steel drums or destructed as indicated in section 1.07.08.

1.07.04. Burning shall take place at a distance of at least 70 m from fuel stores and camp site.

1.07.05. Burning shall only take place when weather conditions permit, so that fire is not spread. During the burning operation, a frost proof, manually operated fire extinguisher of a suitable size shall be placed at the burning site.

1.07.06. Non-combustible waste products, including residues of combustion that cannot be characterized as ashes, shall be buried or transported to an approved dumping site.

1.07.07. Waste products shall be buried at places where the risk of them becoming uncovered by erosion at a later time is minimal. After burial the waste products shall be covered by soil with a thickness of at least 0.5 m.

1.07.08. Waste products containing chemicals (like acids, antifreeze solutions, etc.) and waste products containing heavy metals (like lead, mercury, etc.) shall be delivered to a municipal receiving system in Greenland or transported to an approved treatment place outside of Greenland.

1.07.09. Waste water may be let out, and human waste may be buried. The let-out and burial shall not result in any foul up of the surroundings or pollution of lakes or streams.

## **1.08. Clearing**

1.08.01. The licensee shall when necessary undertake clean-up operations and remedy damages to terrain and vegetation where required by the licensee's activities.

1.08.02. When temporarily shutting down camps and working areas all areas shall be left in such a way that human beings are not exposed to danger. All areas shall be cleared prior to such shutting down. During a shut down period constructions, equipment, materials, fuel and empty fuel containers (cf. section 1.05.07) may be stored temporarily in the field subject to the following provisions:

- a. the licensee shall ensure that stored items are not spread by wind, water, snow or animals
- b. the licensee shall report to BMP what has been stored in the field
- c. the licensee shall remove all stored items later and report this to BMP. This also applies to local reference grids which have been left temporarily in the field

1.08.03. When permanently closing down a camp and resigning from a working area, all areas shall be cleared. All equipment, fuel, empty fuel containers, etc. shall be removed and damage to the terrain, if any, shall be restored. All constructions shall be removed, unless BMP approves otherwise.

## **1.09. Contingency planning**

1.09.01. Camps in the field shall be provided with first aid equipment proportional to the crew for the entire working period. The first aid equipment shall be easy accessible and its location shall be marked clearly by signs.

1.09.02. At least one member of the crew shall within the last 3 years have passed a firstaid examination approved by a public authority. Furthermore, at least one member of each team shall be instructed in basic first aid and in the use of the first aid equipment.

1.09.03. Prior to commencement of field work the licensee shall have prepared written procedures for:

- a. alarm in case of accidents
- b. requests for immediately needed helicopter assistance
- c. alarm call of doctor or hospital

## **1.10. Other provisions**

1.10.01. Import of full or semi automatic weapons, revolvers and pistols requires permission in each particular case from the Police Superintendent for Greenland (cf. the address in enclosure 1.01).

1.10.02. Hunting or fishing must not be carried out in connection with the field work unless specific permission has been given by the Greenland Home Rule Administration.

1.10.03. If a muskox, a polar bear, a walrus, etc. is killed in selfdefence, the nearest police authority and BMP shall be notified as soon as possible.

1.10.04. Within the boundaries surrounding fresh water resources for water supply laid down by the municipalities, construction work or other activity imposing a danger of pollution of the water is not permitted.

1.10.05. If a local reference grid is used when sampling, etc. at least one fixpoint shall be positioned and marked in the terrain so that the system can be reestablished for a period of at least 2 years.

## **2. Important areas for wildlife**

### **2.01. General matters**

2.01.01. Chapter 2 contains those special provisions which, in addition to the general provisions in chapter 1 and the provisions in chapters 4-6, apply to field work within areas and periods of particular significance to the wildlife. The areas are indicated on the maps in enclosures 2.01-2.16. The provisions are based on the existing biological knowledge.

2.01.02. BMP can deviate from the provisions in this chapter 2 based on an evaluation of the specific activities.

2.01.03. Upon request BMP, will forward more detailed material regarding the areas indicated in subchapter 2.03 than the maps in enclosures 2.01-2.16.

### **2.02. Activities in areas and periods of particular significance to wildlife**

2.02.01. The provisions in subchapter 2.03 cover all field activities except aviation with fixed-wing aircraft that hold a minimum of 500 m above ground or sea level, unless otherwise prompted by weather conditions or aviation regulations. Landing in the terrain with fixed-wing aircraft is subject to BMP's approval.

2.02.02. Within the areas and periods defined in sections 2.03.03, 2.03.04.a, 2.03.05-2.03.08 and 2.03.10 flights across the area with helicopter is not subject to BMP's approval provided that

- a. such flights hold a minimum of 500 m above ground or sea level, unless otherwise prompted by weather conditions or aviation regulations, and
- b. such flights can only be avoided through a considerable amount of additional flying

2.02.03. Within the areas and periods defined in sections 2.02.03 and 2.03.04.a, the following activities are not subject to BMP's approval:

- a. single helicopter flights for transportation of equipment or personnel with intervals of at least 4 days which hold a minimum of 500 m above ground or sea level, unless otherwise prompted by weather conditions or aviation regulations
- b. navigation with motorized vessels with a maximum of 10 knots

2.02.04. Outside of the areas and periods defined in subchapter 2.03 flying, navigation and field work may be carried out without special provisions regarding wildlife.

### **2.03. Areas and periods of particular significance to wildlife**

2.03.01. Colonies of breeding Brünnich's guillemots: During the period June 1 - September 15 the activities indicated in section 2.02.01 within a distance of 5 km from the bird colony are subject to BMP's approval.

2.03.02. Colonies of breeding sea birds: During the period June 1 - September 15 the activities indicated in section 2.02.01 within a distance of 200 m from the bird colony are subject to BMP's

approval.

2.03.03. Areas with moulting eiders, etc.: During the period August 1 - September 30 the activities indicated in section 2.02.01 are subject to BMP's approval, however with the exemptions in sections 2.02.02-2.02.03.

2.03.04. Areas with breeding and moulting geese: During the following periods the activities indicated in section 2.02.01 are subject to BMP's approval:

- a. breeding and moulting areas: During the periods May 15 - May 31 and June 15 - August 10, however with the exemptions in sections 2.02.02-2.02.03 for the period July 11 - August 10
- b. colony of barnacle geese: During the period May 15 - July 10

2.03.05. Areas with calving muskoxen: During the period April 15 - May 31, the activities indicated in section 2.02.01 are subject to BMP's approval, however with the exemption in section 2.02.02.

2.03.06. Areas with calving caribou: During the period May 20 - June 20, the activities indicated in section 2.02.01 are subject to BMP's approval, however with the exemption in section 2.02.02.

2.03.07. Areas with breeding dens for polar bears: During the period October 1 - March 31, the activities indicated in section 2.02.01 are subject to BMP's approval, however with the exemption in section 2.02.02.

2.03.08. Areas with narwhales: During the following periods, the activities indicated in section 2.02.01 are subject to BMP's approval, however with the exemption in section 2.02.02:

- a. in East Greenland: During the period June 1 - October 31
- b. in North-West Greenland: During the period August 1 - October 15

2.03.09. Areas with walrus haul out sites: During the period July 15 - October 1, the activities indicated in section 2.02.01 within a distance of 500 m from the haul out site are subject to BMP's approval.

2.03.10. Areas with wintering and spring areas for walrus: During the period October 1 - June 15 the activities indicated in section 2.02.01 are subject to BMP's approval, however with the exemption in section 2.02.02.

## **2.04. Reporting**

2.04.01. Reporting on activities in the areas and periods defined in chapter 2 shall be forwarded as part of the field report under subchapter 7.02

### **3. The National Park in North and East Greenland and other preserved areas**

#### **3.01. General matters**

3.01.01. Chapter 3 contains those special provisions which, in addition to the general provisions in chapter 1 and the provisions in chapters 4-6, apply to field work within the following areas

- a. the National Park in North and East Greenland (subchapter 3.02)
- b. the preserved area in Qimusseriarsuaq (Melville Bay) in North West Greenland (subchapter 3.03)
- c. the preserved area at Sarfartoq (Arnangarnup Qoorua) south of Kangerlussuaq (Soendre Stroemfiord) in West Greenland (subchapter 3.04)

3.01.02. Upon request BMP will forward more detailed material regarding the areas indicated in chapter 3.

#### **3.02. The National Park in North and East Greenland**

3.02.01. The National Park in North and East Greenland is delineated as follows (cf. enclosure 3.01)

- a. the southern boundary of the National Park is determined as a line from Kap Biot (the headland north of Fleming Fiord approximately 10 km south of 72°N) heading west through the mountain ridge, along the east side of Stauning Alper to the north of Holger Danskes Briller Lakes. From here following the northside of the lakes westward to Stormpynt on the northcoast of Nordvestfjord, further along the coast to the Mågetuen island, crossing the fiord and through Renland to the glacier north of Rypefjord. From here southward around Nunatakker to the Inland Ice at 71°N
- b. further across the Inland Ice to position 71°N 44°W, onward heading north to position 78°N 44°W and from here to Petermann Gletscher in North West Greenland
- c. the waters off the delimited area are included in the National Park

3.02.02. Field work in the National Park shall be carried out according to the considerations indicated in section 1.01.02 and the following considerations

- a. field work shall not be carried out close to birds and other animals' breeding, foraging, moulting and resting areas and migration path
- b. driftwood and material from vegetation or animals including skulls, antlers, horns and skeletons shall not be removed
- c. streams shall not be changed or hindered in their course, lakes, ponds, or parts thereof shall not be filled, banks shall not be damaged and the water level shall not be altered unless approved by BMP

3.02.03. For the important areas for wildlife indicated in chapter 2, BMP lays down special provisions for flying and navigation within specific periods. Such areas can be e.g. calving areas of muskoxen, breeding and moulting areas for geese, bird cliffs and bird colonies, walrus haul out sites, maternity dens for polar bears and areas having special hunting considerations.

3.02.04. For artifacts and buildings, constructions, etc. in the National Park the following applies

- a. all cairns or cairn reports, regardless of their age and origin, are preserved
- b. all constructions are preserved within a distance of 100 m. Neither constructions nor the surroundings shall be changed without permission
- c. all buildings not being used are preserved regardless of their age

3.02.05. Findings of an archaeological or culture-historical nature shall be left untouched regardless of whether they are found in connection with a visible relic or not. Findings may, however, be removed if they are in danger of being wholly or partly destroyed provided that

- a. the situation regarding the finding is meticulously documented
- b. notification in writing about the removal of the finding is forwarded to the Greenland National Museum and Archives (cf. the address in enclosure 1.01) prior to departure from the National Park
- c. the documentation under section 3.02.05.a together with the finding is delivered to the Greenland National Museum and Archives within 1 month after departure from the National Park

3.02.06. The provision in section 3.02.05 regarding findings of an archaeological or culture-historical nature will also apply for naturally created objects of particular scarceness or scientific value.

3.02.07. Import of all types of arms requires permission in each particular case from the Police Superintendent for Greenland (cf. the address in enclosure 1.01).

### **3.03. The preserved area in Melville Bay in North West Greenland**

3.03.01. The preserved area in Melville Bay in North West Greenland is delineated as follows (cf. enclosure 3.02)

- a. contour line 500 m on the Inland Ice from position 76°22'30"N 64°01'00"W to position 75°40'30"N 57°56'00"W
- b. heading southward to Kap Lewis on Tuttulipaluk and onward to the westernmost point of the Saatut Islands (Sabine Øer)
- c. from here as the crow flies to the westernmost point on Qapiarfissalik (Thom Ø) and further on to the southernmost point on Apusaavik (Bryant Ø)
- d. onward to the southernmost point on the island Nallortoq (Kap Melville, Nallortup Nuua)
- e. from here northward back to position 76°22'30"N 64°01'00"W

3.03.02. Navigation and driving operations using sledge shall not be carried out unless approved by BMP.

3.03.03. For flying operations in the area the following applies

- a. during the period October 1 - March 31 all helicopter flights require BMP's approval and fixed-wing aircraft shall hold a minimum of 500 m above ground or sea level (maternity dens for polar bears) unless otherwise prompted by weather conditions or aviation regulations
- b. during the period July 1 - October 31 all flights shall hold a minimum of 500 m above ground or sea level (many narwhals) unless otherwise prompted by weather conditions or aviation regulations.

### **3.04. The preserved area at Sarfartoq south of Kangerlussuaq (Soendre Stroemfiord) in West Greenland**

3.04.01. The preserved area at Sarfartoq (Arnangarnup Qoorua) south of Kangerlussuaq (Soendre Stroemfiord) is delineated as follows (cf. enclosures 3.03-3.04)

- a. from position 66°30'N 51°37'W to position 66°29'N 51°37'W
- b. onward to levelpoint 1040 m and further to levelpoint 949 m
- c. onward to position 66°27'N 51°20'W and through position 66°32'N 51°07'W back to position 66°30'N 51°37'W

3.04.02. Ruins, graves and other in situ antiquities shall not be damaged or changed in any way.

3.04.03. Collection of vegetation, antlers, skulls and relics is not allowed.

3.04.04. For flying operations in the area the following applies

- a. helicopters and fixed-wing aircraft shall hold a minimum of 500 m above ground level, unless otherwise prompted by weather conditions or aviation regulations
- b. landing in the terrain with fixed-wing aircraft is subject to BMP's approval.

3.04.05. Use of vegetation as solid fuel is not allowed.

3.04.06. Use of open fire is not allowed closer than 50 m to willow scrubs or other similar vegetation.

3.04.07. Traffic, loitering and other activities is not permitted within the area indicated in enclosure 3.04.

### **3.05. Reporting**

3.05.01. Reporting on activities in the areas defined in chapter 3 shall be forwarded as part of the field report under subchapter 7.02.

## **4. Diamond drilling and other drilling operations**

### **4.01. General matters**

4.01.01. Chapter 4 comprises those special provisions which, in addition to the general provisions in chapter 1 and possible additional provisions in chapter 2-3, apply to diamond drilling and other drilling operations. Additional provisions may be laid down at BMP's approval of the specific drilling operations, cf. subchapter 4.02.

## **4.02. Approval of drilling operations**

4.02.01. Diamond drilling and other drilling operations are subject to BMP's approval.

4.02.02. For approval of drilling operations the application form in enclosure 4.01 shall be forwarded to BMP, filled in for all sections, if possible not later than 1 month before the drilling operations are commenced. Additional information will be required in case of drilling operations through ice, in lakes, streams and at sea, and approval of such operations will in most cases include special provisions.

## **4.03. Drilling equipment**

4.03.01. Drilling operations shall be carried out with non-selfpropelled drilling equipment, unless otherwise approved by BMP.

4.03.02. Transmissions and other mechanical moving parts of the drilling equipment shall be adequately shielded.

## **4.04. Drilling operations**

4.04.01. Excavation work as part of drilling operations may be carried out, provided the soil and surface is reestablished after the operations.

4.04.02. During drilling operations and moving of drilling equipment, the crew shall wear hard hats and safety footwear. During drilling operations earplugs shall also be used. Dust masks and goggles shall be worn if drilling operations are carried out without drilling fluid.

4.04.03. During drilling operations firstaid equipment and a frost proof hand operated fire extinguisher of a suitable size shall be placed at the drilling site. At least one person in each team shall be instructed in basic first aid and in the use of the first aid equipment.

4.04.04. Only water with an admixture of nontoxic drilling fluid additives shall be used unless BMP approves otherwise.

4.04.05. BMP may demand that the drilling fluid is recirculated and recycled to the greatest possible extent.

4.04.06. If water under pressure is encountered in the hole during drilling operations, the hole shall be sealed so that outflow of water is prevented.

4.04.07. Cuttings and other materials, apart from cores, which are not kept as samples, shall be smoothed out at the drilling site.

4.04.08. When drilling operations have been concluded, the drill holes shall be plugged and marked with an unequivocal weatherproof identification.

#### **4.05. Drilling operations in areas with risk of overpressured hydrocarbon accumulations**

4.05.01. In addition to the provisions in subchapter 4.04 BMP may stipulate additional provisions for drilling in areas with prequaternary, unmetamorphic sediments with risk of encountering overpressured hydrocarbon accumulations. The supplementary provisions will be stipulated on the basis of an evaluation of the actual drilling operation and may include provisions regarding the drilling equipment, provisions regarding the drilling operations, etc.

#### **4.06. Positioning**

4.06.01. Positioning of drill holes in the field shall be carried out according to the following:

- a. holes drilled in the ground shall be positioned either in a local reference grid or in the global reference system for Greenland
- b. when holes are surveyed in a local reference grid, the accuracy in positioning shall be given with the local coordinates
- c. in a local reference grid at least 2 fixpoints shall be marked permanently in the terrain so that a later surveyance in the global reference system for Greenland can be accomplished
- d. when holes are surveyed in the global reference system for Greenland either geographical coordinates (NAD83) or UTM coordinates (NAD83) shall be used with indication of method and fixpoints applied
- e. when several holes are drilled at one location the mutual positioning shall be carried out with a degree of accuracy of max. 1 m

4.06.02. The length, bearing and dip of drill holes shall be indicated with a degree of accuracy of max.1 cm and max.1 degree, respectively. Measurements hereof shall be indicated in the drill log.

4.06.03. The drill log shall further comprise a lithological description with corresponding analytical values and geophysical data, if any.

#### **4.07. Contingency planning**

4.07.01. Prior to drilling operations written procedures as indicated in section 1.09.03 shall have been prepared and the telecommunication system indicated in sections 1.04.01-1.04.04 shall have been established.

4.07.02. Prior to commencement of drilling operations under subchapter 4.05, the licensee shall have prepared:

- a. procedures for the work in case of encountering over pressured hydrocarbons
- b. safety procedures in case of alarm for release of gas and hydrogen sulphide
- c. contingency plans for accidents in case of a blowout of hydrocarbons. A contingency for this shall be established

#### **4.08. Reporting**

4.08.01. Preliminary reporting on the drilling operations shall be submitted as part of the field report

under subchapter 7.02.

4.08.02. The final report shall include the following material, cf. subchapter 7.03:

- a. map showing the location of the drill holes, with indication of the reference system used and how the survey was carried out
- b. drill log including bearing, dip and length of the hole, lithological description of the core with corresponding chemical analysis together with registrations, if any, of geophysical data, rock mechanical parameters, groundwater and frost conditions, etc.

## **5. Driving of motorized vehicles**

### **5.01. General matters**

5.01.01. Chapter 5 comprises those special provisions which, in addition to the general provisions in chapter 1 and possible additional provisions in chapters 2-3, apply to driving of motorized vehicles outside of public roads. Additional provisions may be laid down at BMP's approval of the specific driving operations, cf. subchapter 5.02.

### **5.02. Approval of driving operations**

5.02.01. Driving of motorized vehicles as part of field work and construction of temporary work roads are subject to BMP's approval.

5.02.02. For approval of driving operations the following information shall be forwarded to BMP:

- a. planned areas of driving operations and outline of routes indicated on maps and aerial photos on the largest available scale. Furthermore, indication of how often the routes are to be used according to the plan
- b. number and types of vehicles to be used according to the plan, with indication of the vehicles' net weight, crawler belt dimensions and belt material, as well as their static contact pressure
- c. for driving operations on ice or glaciers the factors used for the determination of bearing capacity, cf. sections 5.06.03 and 5.07.03, shall be indicated. If the licensee uses other methods than the ones defined in sections 5.06.03 and 5.07.03, such methods shall be forwarded to BMP together with a description of the investigations which will be carried out for demonstrating the bearing capacity of the surface
- d. the licensee's safety rules for driving on ice (section 5.06.07) and for driving on glaciers (section 5.07.07)
- e. for temporary work roads maps shall be forwarded on the largest available scale with indication of the expected tracks of the work roads

### **5.03. Vehicles**

5.03.01. For driving operations on snow, ice or glaciers, vehicles fitted with crawler belts or skis shall be used. The vehicles' static contact pressure on the surface shall be max. 80 kPa.

5.03.02. For driving operations in terrain, vehicles fitted with rubber belts and with a net weight of max. 2,500 kg shall be used. The vehicles' static contact pressure on the surface shall be max. 10 kPa. Belt ribs shall be max. 20 mm high.

5.03.03. BMP may approve the use of other vehicles than those indicated in sections 5.03.01-5.03.02.

5.03.04. Vehicles shall be equipped with a frostproof, handoperated fire extinguisher of suitable size and type, placed at a location easy of access and clearly marked, and the fire extinguisher shall be ready for instant use.

5.03.05. Vehicles shall be kept in a state of good repair. Unnecessary noise and spill of engine oil and hydraulic oil shall be avoided.

### **5.04. Driving operations**

5.04.01. Excavation work in order to improve the driving conditions shall not be carried out, unless approved by BMP.

5.04.02. Drivers of vehicles shall be instructed in driving operations with the vehicles in question and the provisions applying hereto including the considerations regarding terrain and wildlife.

5.04.03. Driving operations shall not be carried out in catchment areas for water supply, or where such catchment has been planned.

5.04.04. Routes to be used repeatedly shall be marked in such a way that they can be easily found again under the type of weather conditions during which the driving is carried out. The marking shall be removed when the driving operations are discontinued.

### **5.05. Driving operations in the terrain**

5.05.01. During driving operations in the terrain the provisions in sections 5.05.02-5.05.07 apply in addition to the provisions in subchapter 5.04.

5.05.02. Driving operations in the terrain shall be carried out when

- a. the soil has been drained and its bearing capacity is such that no damage will be done to the terrain, cf. section 5.05.03
- b. the soil is frozen down to a depth of 30 cm and the vegetation is covered by a 20 cm thick layer of snow, cf. section 5.05.03

Based on a concrete evaluation of vehicles and areas BMP may amend the above provisions.

5.05.03. Driving operations in the terrain shall not be carried out when the protection afforded by the

snow cover disappears, and during periods of thaw or other periods when the soil is soaked.

5.05.04. During driving operations in the terrain no sharp turns shall be made which may tear up the vegetation or the surface.

5.05.05. Prior to driving operations, the licensee shall reconnoitre the route to ensure that BMP's provisions can be complied with.

5.05.06. Crossing of banks and slopes at lakes, large waterways and fiords shall as far as possible be carried out by using the topographical conditions.

5.05.07. Clearing of snow shall be avoided to the extent possible, but may, however, be carried out for filling-up purposes and in order to improve the driving conditions. Snow clearing may only be carried out to such depth that the vegetation remains protected by at least 35 cm snow cover. Dams capable of blocking waterways shall be removed before the thaw sets in.

## **5.06. Driving operations on ice**

5.06.01. During driving operations on ice the provisions in sections 5.06.02-5.06.07 apply in addition to the provisions in subchapter 5.04.

5.06.02. Driving operations on ice shall be carried out outside of critical areas, such as areas with openings in the ice, crack zones, places with strong currents, etc.

5.06.03. During driving operations on ice it shall be ensured, through examination of the ice type, structure, thickness, etc. that the ice has the required bearing capacity.

5.06.04. Determination of the bearing capacity of the ice shall be carried out in accordance with "Cold Regions Research and Engineering Laboratory (CRREL) Engineer Manual No. 1110-2-1612: Ice Engineering, 1982", and a bearing capacity factor shall be established in each individual case. The determination of the bearing capacity factor depends on a number of parameters, e.g. ice type and quality, ice temperature, load geometry, and the unit system and safety factors used. The bearing capacity factor is subject to BMP's approval. Other similar methods may be approved by BMP.

5.06.05. The bearing capacity of the ice shall be controlled regularly during the driving season and in case of major temperature changes and other weather conditions influencing ice conditions. During the ice melting period, such control shall be carried out at least every third day.

5.06.06. During driving operations on ice, the speed and weight of the vehicles, and the distance between them, shall be adapted to the circumstances as regards ice waves, crossing floating ice, crossing of crack zones, etc.

5.06.07. The licensee shall prepare safety rules for driving operations on ice and instruct drivers of vehicles in these rules. The safety rules are subject to BMP's approval.

## **5.07. Driving operations on glaciers**

5.07.01. During driving operations on glaciers the provisions in sections 5.07.02-5.07.07 apply in addition

to the provisions in subchapter 5.04.

5.07.02. Driving operations on glaciers shall be carried out outside of critical areas, such as crack and crevasse zones, places with strong currents, etc.

5.07.03. During driving operations on glaciers it shall be ensured, through examination of crack conditions, cavities, etc. that the surface has the required bearing capacity.

5.07.04. Determination of the bearing capacity of the surface shall be carried out in accordance with "CRREL Engineering Manual No. 1110-2-1612: Ice Engineering, 1982" and "CRREL Monograph No. 90-3: Snow Roads and Runways, 1990", and a bearing capacity factor shall be established in each individual case. The determination of the bearing capacity factor depends on a number of parameters, e.g. surface type, quality and temperature, load geometry, and the unit system and safety factor used. The bearing capacity factor is subject to BMP's approval. Other similar methods may be approved by BMP.

5.07.05. The bearing capacity of the surface shall be controlled regularly during the driving season and in case of major temperature changes and other weather conditions influencing the conditions.

5.07.06. During driving operations on glaciers, the speed and weight of the vehicles, and the distance between them, shall be adapted to the circumstances in connection with the passing of areas with cracks and crevasses, etc.

5.07.07. The licensee shall prepare safety rules for driving operations on glaciers and instruct drivers of vehicles in these rules. The safety rules are subject to BMP's approval.

## **5.08. Construction of temporary work roads**

5.08.01. Temporary work roads shall be located and constructed under the considerations indicated in section 5.04.01, and to the extent possible at such a distance from waterways and lakes that the border vegetation is not exposed to damage or the banks exposed to erosion.

5.08.02. Temporary work roads shall be marked clearly, and future vehicular traffic shall be limited to the same roads.

5.08.03. During construction of temporary work roads, activities shall be limited to the max. dam or excavation width plus 2 m at either side, unless BMP approves otherwise.

5.08.04. BMP may order that temporary work roads are reinforced or only used in periods where the ground is sufficiently frozen, and hence possesses the required bearing capacity.

5.08.05. Temporary work roads shall to the extent possible be constructed in such a way that the terrain afterwards can be restored to its former condition, if BMP so requests.

## **5.09. Restoration of damage to vegetation and soil**

5.09.01. BMP may order that damage to vegetation or soil caused by driving operations or the construction of temporary work roads shall be restored.

## **5.10. Contingency planning**

5.10.01. During driving operations vehicles shall carry first aid equipment, and during the winter period also a radio and the most essential spare parts. At least one member of each vehicle crew shall be instructed in basic first aid and in the use of the first aid equipment.

5.10.02. Prior to driving operations written procedures as indicated in section 1.09.03 shall have been prepared.

5.10.03. Driving operations during the winter period requires

- a. that the telecommunication system indicated in sections 1.04.01-1.04.04 is established
- b. that vehicles carry a radio and the most essential spare parts
- c. that vehicles, for reasons of safety, report regularly to the base station (say, once per hour), so that they can obtain a weather forecast and provide information about their position

## **5.11. Reporting**

5.11.01. Reporting on driving operations shall be forwarded as part of the field report in subchapter 7.02.

## **6. Import, transport, storage and use of explosive materials**

### **6.01. General matters**

6.01.01. Chapter 6 comprises those special provisions which, in addition to the general provisions in chapter 1 and possible additional provisions in chapters 2-3, apply to import, transport, storage and use of explosive materials. Additional provisions may be laid down at BMP's approval of the specific blasting operations, cf. subchapter 6.02.

### **6.02. Approval of blasting operations and blasters**

6.02.01. Blasting operations, that is use of explosive materials, are subject to BMP's approval.

6.02.02. For approval of blasting operations the application form in enclosure 6.01 shall be forwarded to BMP, filled in for all sections, if possible not later than 1 month before the blasting operations. Additional information will be required in case of blasting operations in lakes, major streams and the sea and approval of such operations will in most cases include special provisions.

6.02.03. Blasting shall only be carried out by a responsible blaster holding an approval from the Greenland Home Rule Administration, Department of Economics (cf. the address in enclosure 1.01).

### **6.03. Blasting regulations, etc.**

6.03.01. Import, transport, storage and use of explosives and detonators shall be carried out in accordance with the regulations valid for Greenland. The regulations (of November 20, 1997), which are only available in Danish, comprise chapters with the following contents:

- 0 General matters
- 0.
- 0 Import and export
- 1.
- 0 Transportation
- 2.
- 0 Storage
- 3.
- 0 Sale and transfer
- 4.
- 0 Use
- 5.

The regulations have been prepared for use in towns and settlements in Greenland, and can not in all respects be used directly in the field. The blaster may therefore, at his own discretion, slightly deviate from these regulations whereas major or principle deviations are subject to BMP's approval after consultation with the Labour Inspection Agency (cf. the address in enclosure 1.01).

6.03.02. BMP may, after consultation with the Labour Inspection Agency, approve that as substitution for the regulations in section 6.03.01 the blasting regulations of another country are used.

### **6.04. Import and purchase of explosive materials**

6.04.01. In general explosives and detonators shall be imported to Greenland only by KNI Pilersuisoq A/S. Explosives and detonators shall be sold in Greenland only by KNI Pilersuisoq A/S. Explosives and detonators for a licensee's own use may, however, be imported to Greenland with BMP's approval.

6.04.02. Explosives and detonators shall not be sold or transferred to a third party.

### **6.05. Transport of explosive materials**

6.05.01. Transport of explosive materials by plane or helicopter is covered by provisions in the aviation legislation.

6.05.02. Transport of explosive materials by ships or other vessels is covered by the provisions in the navigation legislation concerning transport of dangerous goods.

6.05.03. During transport explosives and detonators shall be separated and transported on separate

transports.

## **6.06. Establishment and operation of stores in the field**

6.06.01. Stores in the field shall be established with lockable, portable magazines. The magazines and their location and safety distances shall be approved by BMP.

6.06.02. Explosive materials that are not being transported or used shall be stored in magazines designed for the purpose. Explosives and detonators shall be stored in separate magazines. To the extent possible the materials shall be stored in the unopened original packing until their use.

6.06.03. The magazines shall only contain the explosive materials for which they have been designed.

6.06.04. The magazines shall be kept locked, except when explosive materials are being delivered or removed. The keys shall be kept in a safe place, so that they do not fall into the wrong hands.

6.06.05. Delivery and removal of explosive materials shall be carried out by the blaster himself.

6.06.06. The blaster shall keep a log of every magazine, so that he at any time can account for received, used and stored quantities of explosive materials. 6.06.07. During storage of explosive materials the magazines shall be inspected regularly by the licensee.

## **6.07. Blasting operations**

6.07.01. Blasting operations shall be carried out in accordance with instructions published by Danish Federation of Explosives Engineers, cf. chapter 00 in the material indicated in section 6.03.01.

6.07.02. When seismic surveys are performed, blasting operations shall be carried out, so that they will not give rise to major crater formations or damage to the vegetation.

6.07.03. Misfires occurring during blasting operations shall be handled according to the following

- a. a misfire shall as soon as possible be destroyed by the blaster, unless the blaster considers it too risky to destroy the misfire
- b. a misfire that is not destroyed shall be marked and identified clearly, so that it can be found again
- c. a misfire that is not destroyed shall immediately be reported to BMP with indication of position, place and size of the charge, and the reason why it has not been destroyed. Subsequently, BMP will decide as to what steps shall be taken
- d. BMP may order that misfires be destroyed at the expense of the licensee

## **6.08. Destruction of explosives**

6.08.01. Non-used explosives and detonators shall be destructed by the blaster or a person with

special knowledge of this kind of work.

6.08.02. Destruction of large quantities of explosives or detonators are subject to BMP's approval.

### **6.09. Clearing and restoration work**

6.09.01. The blasting area shall currently be cleaned up. After blasting operations cables, etc. shall be removed from the blasting area.

6.09.02. After blasting operations the surface shall be restored to a reasonable extent. Crater formations in connection with seismic surveys shall, to the extent possible, be backfilled and the surface restored.

6.09.03. BMP may request that major damages to the terrain and the vegetation be restored.

### **6.10. Contingency planning**

6.10.01. Prior to blasting operations written procedures as indicated in section 1.09.03 shall have been prepared and the telecommunication system indicated in sections 1.04.01-1.04.04 shall have been established.

### **6.11. Reporting**

6.11.01. Reporting on blasting operations shall be forwarded as part of the field report in subchapter 7.02.

## **7. Reporting to BMP**

### **7.01. General matters**

7.01.01. Chapter 7 comprises provisions for reporting to the Mineral Resources Administration for Greenland (BMP) on prospecting and exploration regarding mineral resources (excluding hydrocarbons). Such reporting shall be of the following types:

- a. field report (subchapter 7.02)
- b. geological report (subchapter 7.03)
- c. special reports (subchapter 7.04)
- d. accounts (subchapter 7.05)
- e. reporting on accidents, etc. (subchapter 7.06)

Additional provisions may be laid down at BMP's approval of specific operations.

7.01.02. Reporting shall be in Danish or English.

7.01.03. The licence number, geographical area, exploration target and licensee shall be indicated in all reports. If possible, each report shall cover only one licence.

7.01.04. At reporting the international unit system (SI) shall be used.

7.01.05. BMP may request additional information on the received reports and the work accomplished.

## **7.02. Field reporting**

7.02.01. Reporting on the field activities as regards logistics, etc., shall be made using the questionnaire in enclosure 7.01, which is to be filled in for all sections. As enclosures, maps shall be forwarded indicating camp sites, locations of depots, areas of activities, etc. and photos.

7.02.02. The field report shall be forwarded to BMP in one copy. However, maps larger than size A3, coloured maps and photographs shall, if possible, be forwarded in 3 copies.

7.02.03. The field report shall be forwarded not later than one month after the termination of field work. A field report shall be forwarded for each field work period.

## **7.03. Geological reporting.**

7.03.01. The geological report is the final report covering objectives, activities, results, conclusions and recommendations. It is recommended to consult the following manuals on reporting:

- a. Bishop, E.E., Eckel, E.B. and others, 1978: "Suggestions to authors of the reports of the United States Geological Survey", U.S. Government Printing Office, Washington, D.C. (273 pp)
- b. Blackadar, R.G., Dumych, H. and Griffin, P.J., 1979: "Guide to authors - A guide for the Preparation of Geological Maps and Reports", Geological Survey of Canada, Miscellaneous Report no. 29 (66 pp.)

7.03.02. Depending on the type of work accomplished, the report shall include the following information:

- a. the length of the field season and the number of participants
- b. working methods (sampling methods, analytical techniques with detection limits and name of laboratory, geophysical methods, statistical procedures, drilling methods, etc.)
- c. positioning and marking in the terrain of fixpoints for local reference systems
- d. topographic maps of the investigated areas
- e. geological maps
- f. sample maps
- g. geophysical maps
- h. sample list
- i. drill logs
- j. all raw data (chemical values, geophysical values, etc.)

7.03.03. The geological report shall, if possible, be forwarded to BMP in 3 copies.

7.03.04. The geological report shall be forwarded not later than April 1 in the following calendar year.

7.03.05. Unprocessed data may be submitted to BMP as paper copies, or, as per agreement with BMP, transferred directly to GEUS's data processing system.

#### **7.04. Special reports**

7.04.01. Special reports cover special topics as e.g.:

- a. metallurgical studies
- b. mining engineering and other technical studies (tailings and waste disposal, infrastructure, etc.)
- c. remote sensing studies
- d. feasibility studies
- e. environmental studies

7.04.02. Special reports shall, if possible, be forwarded to BMP in 3 copies.

7.04.03. Special reports shall be forwarded within one month after their completion. If a special report is incomplete at the time, when the geological report shall be forwarded (cf. subchapter 7.03), the latest draft report shall be forwarded.

#### **7.05. Accounts**

7.05.01. For exploration licences an account of the exploration expenses, defrayed during the previous calendar year, shall be forwarded to BMP not later than April 1, cf. section 612 of the Standard Terms (of November 16, 1998).

7.05.02. For prospecting licences such accounts for exploration expenses are not mandatory, but this is recommended, cf. section 602 of the Standard Terms (of November 16, 1998).

#### **7.06. Reporting on accidents, etc.**

7.06.01. BMP shall be notified as soon as possible in case of serious illness or injuries during the field work or calamities or accidents regarding persons or equipment. BMP shall also be notified as soon as possible if a wild animal has been killed in self defence.

7.06.02. Reporting on accidents, etc. to BMP may be in writing or by telephone.

7.06.03. In case of fire in the vegetation or other serious mishaps or killing of a wild animal in self defence, the local police shall be notified as soon as possible. Injuries to people caused by accidents

during work shall be reported to the Labour Inspection Agency (cf. the address in enclosure 1.01).

7.06.04. BMP shall be notified immediately about the situations indicated in section 4.05.12