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NUNAVUT WATER BOARD
Fax: (867) 360-6369 NUNAVUT
IMALIRIYIN KATIMAYINGI

**WATER LICENCE
APPLICATION FORM**

| INTERNAL | |
|----------|----|
| PC | 02 |
| LA | |
| OM | |
| TA | |
| BS | |
| ST | |
| ED | |
| CEO | |
| BRD | |
| EXT. | |

Application for: (check one)

☒ New ☐ Amendment ☐ Renewal ☐ Assignment

LICENCE NO:
(for NWB use only)

**1. NAME AND MAILING ADDRESS OF
APPLICANT/LICENSEE**

Pamela Strand
974134 NWT Ltd.
Suite 220, 9797-45th Ave.
Edmonton, Alberta, Canada
T6E 5V8

Phone: (780) 435-0045
Fax: (780) 989-0322
e-mail: pstrand@compusmart.ab.ca

**2. ADDRESS OF CORPORATE
OFFICE IN CANADA (if applicable)**

Phone: _____
Fax: _____
e-mail: _____

3. LOCATION OF UNDERTAKING (describe and attach a topographical map, indicating the main components of the undertaking)

Kitikmeot Region, Nunavut – south of Bathurst Inlet (please see attached maps)
Topographical Map covers location of possible camp setup (if necessary) on NTS Map No. 76G10 (1:50000)

Latitude: 65°30' to 66°00' N Longitude: 106°30' to 107°00' N NTS Map No. 76G, J Scale 1:250,000

4. DESCRIPTION OF UNDERTAKING (attach plans and drawings)

1. Water for diamond drilling in the area of the exploration program outlined on the attached 1:450,000 map, period of August 1, 2003 to Jun. 27, 2004 (expiry of DIAND Land Use Permit #N2001C0014). Please refer to attached map of 2004 Proposed Exploration and extensive description of undertaking.

5. TYPE OF UNDERTAKING (A supplementary questionnaire must be submitted with the application for undertakings listed in “**bold**”)

- | | |
|--|--|
| <input type="checkbox"/> Industrial | <input type="checkbox"/> Remote/Tourism Camps |
| <input type="checkbox"/> Mine Development | <input type="checkbox"/> Municipal |
| <input type="checkbox"/> Advanced Exploration | <input type="checkbox"/> Power |
| <input checked="" type="checkbox"/> Exploratory Drilling | <input type="checkbox"/> Other (describe): _____ |

6. **WATER USE**

- ☒ To obtain water
☐ To modify the bed or bank of a watercourse
☐ To alter the flow of, or store, water
☐ To cross a watercourse

- ☐ To divert a watercourse
☐ Flood control
☐ Other (describe): _____

7. **QUANTITY OF WATER INVOLVED** (litres per second, litres per day or cubic metres per year, including both quantity to be used and quality to be returned to source)

8-10 gallons per minute for one drill (while drilling only) during Spring 2004.
(Approximately 260 m³/day of fresh water). Water will be sumped before returned to source.

8. **WASTE** (for each type of waste describe: composition, quantity, methods of treatment and disposal, etc.)
See attached environmental procedures plan

- | | |
|---|--|
| <input checked="" type="checkbox"/> Sewage | <input type="checkbox"/> Waste oil |
| <input checked="" type="checkbox"/> Solid Waste | <input checked="" type="checkbox"/> Greywater |
| <input type="checkbox"/> Hazardous | <input type="checkbox"/> Sludges |
| <input checked="" type="checkbox"/> Bulky Items/Scrap Metal | <input checked="" type="checkbox"/> Other (describe) <u>drilling water</u> |

9. **PERSONS OR PROPERTIES AFFECTED BY THIS UNDERTAKING** (give name, mailing address and location; attach if necessary)

Land Use Permit

- | | | |
|----------------------------|---|----------------------------|
| DIAND | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If no, date expected _____ |
| Regional Inuit Association | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If no, date expected _____ |
| Commissioner | <input type="checkbox"/> Yes <input type="checkbox"/> No | If no, date expected _____ |

10. **PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION MEASURES** (direct, indirect, cumulative impacts, etc.)

NIRB Screening ☒ Yes ☐ No If no, date expected _____

NIRB Screening took place in Spring of 2001 with authorization of Land Use Permit # N2001C0014.

11. **CONTRACTORS AND SUB-CONTRACTORS** (name, address and functions)

Unknown at present time; either
Aggressive Diamond Drilling Ltd., 3105 Topham Rd., Kelowna, BC. V1S 2J5
Tel: 250-769-0487. Fax: 250-769-0497 **OR** MIDWEST DRILLING P. O. Box 1377 / Old
Airport Road Yellowknife, N.W.T. X1A 2P1 Ph. (867) 873-3358 Fax (867) 873-6803

12. **STUDIES UNDERTAKEN TO DATE** (list and attach copies of studies, reports, research, etc.)

Please see attached references.

13. THE FOLLOWING DOCUMENTS MUST BE INCLUDED WITH THE APPLICATION FOR THE REGULATORY PROCESS TO BEGIN

Supplementary Questionnaire (where applicable: see section 5) ☒ Yes ☐ No If no, date expected _____

Inuktitut/English Summary of Project ☒ Yes ☐ No If no, date expected _____

Application fee \$30.00 (c/o Receiver General for Canada) ☒ Yes ☐ No If no, date expected _____

14. PROPOSED TIME SCHEDULE

☐ Annual (or) ☒ Multi Year

Start Date: August 1, 2003 Completion Date: June 27, 2004

Andrea Maynes

BSc., Geol. I.T.

Name (Print)

Title (Print)

Signature

Date

July 5/03

For Nunavut Water Board use only
APPLICATION FEE

Amount: \$ _____ Receipt No.: _____

WATER USE DEPOSIT Amount: \$ _____ Receipt No.: _____



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NUNAVUT WATER BOARD

NUNAVUT IMALIRIYIN KATIMAYINGI

EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

Applicant: 974134 NWT Ltd. **Licence No:** _____
(For NWB Use Only)

ADMINISTRATIVE INFORMATION

1. Environment Manager: Pamela Strand Tel: (780) 435-0045 Fax: (780) 989-0322
E-mail: pstrand@compusmart.ab.ca
2. Project Manager: Pamela Strand Tel: (780) 435-0045 Fax: (780) 989-0322
E-mail: pstrand@compusmart.ab.ca
3. Does the applicant hold the necessary property rights?
Yes
4. Is the applicant an 'operator' for another company (i.e., the holder of the property rights)?
If so, please provide letter of authorization.
No
5. Duration of the Project
[] Annual
[x] Multi Year:
If Multi-Year indicate proposed schedule of on site activities
Start: Aug. 2003 Completion: Jun. 2004

CAMP CLASSIFICATION

6. Type of Camp
[] Mobile (self-propelled)
[] Temporary
[x] Seasonally Occupied: Spring 2004
[] Permanent
[] Other: _____
7. What are the design population of the camp and the maximum population expected on site at one time? What will be the fluctuations in personnel?
6 – 8 geological personnel, 1 cook, 1 pilot, and 4 drill personnel when required. Maximum total is 17 at one time when drilling.
8. Provide history of the site if it has been used in the past.
Please refer to attached references.

CAMP LOCATION

9. Please describe proposed camp location in relation to biogeographical and geomorphological features, and water bodies.

The George Lake Camp is situated on an esker and is in close proximity to a small lake east of the camp. The Goose Lake Camp is about 120 m west of a small lake and further south of a larger lake. The proposed camp location is situated on Crown land between a small lake to the west and a river to the east. Once more information is known as to where the final camp will be, more information will be forwarded.

10. How was the location of the camp selected? Was the site previously used? Was assistance from the Regional Inuit Association Land Manager sought? Include maps and/or aerial photographs.

At this time, the camp location is unknown, as it will depend on whether we can stay at the Goose Lake Camp (432860E/7269495N) or George Lake Camp (388126E/7313046N), both of which are established Kinross Gold Co. camps. An air strip is present at the George Lake camp, which is situated on an esker. If neither of these camps is available, then we will erect a separate camp upon approval of the water licence at approximately 422660E/7273230E. The camp locations were chosen based on proximity to the exploration areas, and water bodies for water sources. Further, their locations do not intersect any major wildlife migratory paths. Once camp arrangements are made, the pertinent information will be forwarded.

11. Is the camp or any aspect of the project located on:

The camp is located on Crown land but the area for exploration covers both Crown and Inuit Owned Land.

[x] Crown Lands Permit Number (s)/Expiry Date: LUP # N2001C0014/ Exp. Jun. 27/04
[] Commissioners Lands Permit Number (s)/Expiry Date: _____
[x] Inuit Owned Lands Permit Number (s)/Expiry Date: KTL # 302 C007/ Exp. Mar. 19/04

12. Closest Communities (distance in km):

500 km northeast of Yellowknife, 175 km northeast of EKATI™ Mine, 60 km south of Bathurst Inlet.

13. Has the proponent notified and consulted the nearby communities and potentially interested parties about the proposed work?

Yes. Previous work has been undertaken on the property under Land Use Permit #N2001C0014, for which all concerned parties were notified of proposed work. In addition, a Land Use Permit was issued from the Kitikmeot Inuit Association, #KTL302C007.

14. Will the project have impacts on traditional water use areas used by the nearby communities? Will the project have impacts on local fish and wildlife habitats? **No**

PURPOSE OF THE CAMP

15. ☐ Mining
☐ Tourism (hunting, fishing, wildlife observation, adventure/expedition, etc.)
(Omit questions # 16 to 21)
☒ Other Exploration (Omit questions # 16 to 22)
16. ☐ Preliminary site visit
☒ Prospecting

- ☐ Geological mapping
- ☒ Geophysical survey
- ☒ Diamond drilling
- ☐ Reverse circulation drilling
- ☐ Evaluation Drilling/Bulk Sampling (also complete separate questionnaire)
- ☐ Other: _____

17. Type of deposit:

- ☐ Lead Zinc
- ☒ Diamond
- ☐ Gold
- ☐ Uranium
- ☐ Other: _____

DRILLING INFORMATION

18. Drilling Activities

- ☒ Land Based drilling
- ☒ Drilling on ice

19. Describe what will be done with drill cuttings?

All land-based drill cuttings are pumped to a sump which is either a natural depression or a dyke that is temporarily deployed, both of which trap the drill cuttings and allow the water to drain away. The drill cuttings are then re-habilitated with peat moss and fertilizer. Drilling fluids and cuttings on ice will be contained to prevent contact with the ice surface or water. Should any material become frozen within the ice surface, the said material will be chipped completely free from the ice and removed for off-site disposal. All drill sites on ice will be land-based and left in a meticulous condition.

20. Describe what will be done with drill water?

All land based drilling fluids will be treated in sumps to collect cuttings, allowing the water to drain into the surrounding landscape.

21. List the brand names and constituents of the drill additives to be used? Include MSDS sheets and provide confirmation that the additives are non-toxic and biodegradable.

550x Polymer, Clay Stabilizer, Big Bear Diamond Rod Grease, X-tra gel, Linseed Soap. Please refer to attached MSD sheets.

22. Will any core testing be done on site? Describe.

Core will be moved to the nearest camp to be mechanically split and sampled.

SPILL CONTINGENCY PLANNING

23. Does the proponent have a spill contingency plan in place? Please include for review.

See attached Spill Contingency Plan included dated July 2003.

24. How many spill kits will be on site and where will they be located?

A total of three (3) spill kits will be on site: one at the fuel tank location, one at the campsite and the third at the drill site.

25. Please describe the types, quantities, and method of storage of fuel and chemicals on site, and provide MSDS sheets.

See attached Environmental Procedures Plan dated July 2003.

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.

Numerous small ponds and lakes are readily available for ice and land-based drilling.

27. Estimated demand (in L/day * person based maximum number of people – 17):

⊗ Domestic Use: 2000 L/day Water Source: Lake or stream

⊗ Drilling Units: 46000 L/day* Water Source: Lake or stream

○ Other: _____ Water Source: _____

*Approximately 90% of this water is recirculated in the drilling process, therefore only about 460 L/day is fresh water use in one day.

28. Describe water intake for camp operations? Is the water intake equipped with a mesh screen to prevent entrapment of fish? Describe:

Submersible pump with filtered intake.

29. Will drinking water quality be monitored? What parameters will be analyzed and at what frequency?

Yes, one (1) sample will be taken when mobilizing the camps, with the possibility of further sampling if necessary. Tests will be conducted with a field test kit and will be standard water examinations for various types of coliform bacteria.

30. Will drinking water be treated? How?

If necessary (depending on the test results), water will be chlorinated.

31. Will water be stored on site?

Yes, there will be one 45 gallon tank located at the drill site, and there will be tank(s) located at the campsite for domestic purposes (approx. 150-gallon tanks).

WASTE TREATMENT AND DISPOSAL

32. Describe the characteristics, quantities, treatment and disposal methods for:

Please refer to Environmental Procedures Plan.

⊗ Camp Sewage (blackwater): **1 gal/day for 5 person camp**
-latrine sump

⊗ Camp Greywater: **40 gal/day for 5 person camp**
-sump

⊗ Solid Waste: **minimal**
-incineration or shipped off site

⊗ Bulky Items/Scrap Metal: **minimal**
-shipped off site

⊗ Waste Oil/Hazardous Waste: **minimal**
-shipped off site

⊗ Empty Barrels/Fuel Drums: **variable**
-shipped off site

○ Other:

33. Please describe incineration system if used on site. What types of wastes will be incinerated?
A modified 45 gallon drum will be used to incinerate burnable solid waste.

34. Where and how will non-combustible waste be disposed of? If in a municipality in Nunavut, has authorization been granted?
All inert waste shipped off site will be disposed of at the appropriate municipal/city dump.

35. Describe location (relative to water bodies and camp facilities) dimensions and volume, and freeboard for sumps (if applicable).
2m x 2m x 1.2m sump, more than 100 m from surface water and above the high water mark.

36. Will leachate monitoring be done? What parameters will be sampled and analyzed, and at what frequency?
N/A

OPERATION AND MAINTENANCE

37. Have the water supply and waste treatment and disposal methods been used and proven in cold climate? What known O&M problems may occur? What contingency plans are in place?
Please see attached “Spill Contingency Plan.”

ABANDONMENT AND RESTORATION

38. Provide a detailed description of progressive and final abandonment and restoration activities at the site.
Please see attached “Environmental Procedure Plan” and “Abandonment & Restoration Plan.”

BASELINE DATA

39. Has or will any baseline information be collected as part of this project? Provide bibliography.
- ⊗ Physical Environment (Landscape and Terrain, Air, Water, etc.)
 - Biological Environment (Vegetation, Wildlife, Birds, Fish and Other Aquatic Organisms, etc.)
 - Socio-Economic Environment (Archaeology, Land and Resources Use, Demographics, Social and Culture Patterns, etc.)
 - Other:
- Please refer to attached bibliography.**

REGULATORY INFORMATION

40. Do you have a copy of
- ⊗ Article 13 - Nunavut Land Claims Agreement
 - ⊗ NWB - Water Licensing in Nunavut - Interim Procedures and Information Guide for Applicants
 - ⊗ NWB - Interim Rules of Practice and Procedure for Public Hearings
 - ⊗ NWTWB - Guidelines for the Discharge of Treated Municipal Wastewater in the NWT
 - ⊗ NWTWB - Guidelines for Contingency Planning
 - ⊗ DFO - Freshwater Intake End of Pipe Fish Screen Guideline
 - ⊗ Fisheries Act - s.35
 - ⊗ RWED - Environment Protection- Spill Contingency Regulations
 - ⊗ Canadian Drinking Water Quality Guidelines
 - ⊗ Public Health Act Camp Sanitation Regulations
 - ⊗ Public Health Act Water Supply Regulations
 - ⊗ Territorial Land Use Act and Regulations

You should consult the above document, guidelines, and legislation for compliance with existing regulatory requirements.

WATER LICENCE APPLICATION – DESCRIPTION OF UNDERTAKING

CORONATION DIAMOND PROPERTY, KITIKMEOT REGION, NUNAVUT TERRITORY SHEAR MINERALS LTD. (974134 NWT Ltd.)

974134 NWT Limited (a wholly owned subsidiary of Shear Minerals Ltd.) has been exploring for diamonds and gold within Nunavut on its Coronation Property and area since 1998. The property is situated in the Kitikmeot Region of Nunavut, about 450 km and 175 km northeast of Yellowknife and the Ekati™ Mine, respectively. The claims are located within 20 km of both the George Lake and Goose Lake gold deposits being operated by Kinross Gold. The proposed deep sea port at Bathurst Inlet is located 60km due north of the property and the route for the proposed all-weather road crosses the property. This port and road study would greatly enhance the economics of any discovery on the property.

Sampling and geophysical exploration is planned for the property before and during an exploratory drilling program of the prioritized targets planned for Spring 2004. Exploration outside of drilling consists primarily of rock/till/beach sand/soil sampling, geophysical magnetic surveys, prospecting, geological mapping and staking. This work is performed using hand tools via helicopter or foot traverses in the field seasons of 2003/2004. The Land Use Permit for the Coronation property (#N2001C0014) was recently extended until June 27, 2004.

Targets that have the potential for kimberlites are tested by drilling. Shear Minerals Ltd. is planning on conducting core drilling exploration on its Coronation Diamond Property during the Spring of 2004. The core drill program is planned to be helicopter supported.

All field logistics, support and operations for previous exploration programs were based out of the city of Yellowknife. Currently there are all weather airstrips at both George and Goose Lake Camps, but ferrying by helicopter to the property is necessary. If a new camp location is required because of inaccessibility at either of the Kinross camps (George and Goose Lake Camps), one will be erected at approximately 422660 E/7273227 N and is illustrated on the attached map, *2004 Proposed Exploration*.

The impact of exploratory sampling, geophysics, staking and core drilling on the environment is minimal. Any drill cuttings, which may result from drilling, will be impounded. In addition, the drill sites will be kept small and clean. Drilling additives, which may be required in an effort to stabilize drill holes, will only be used as a last resort. Should any drill sites be located on frozen lakes, great caution will be taken to ensure no materials remain and that no residue is allowed to accumulate on the ice surface. Should any material become frozen within the ice surface, the said material will be chipped completely free from the ice and removed for off-site disposal. All drill sites on ice will be land-based and left in a meticulous condition. Following the completion of each drill hole, the land-based collars will be cut level with the ground surface; at each site all debris will be removed. Should any groundwater flow from the drill holes, these will be cemented and plugged.

No camp will be established on Inuit Owned Land. Small fuel caches (6-12 drums) may be located at the drill sites in order to facilitate drilling operations and support. All drums will be removed once drilling is completed. Fuel caches will be located 100m above the high water mark and spill kits with absorbent matting will be on location. Used absorbent

matting will be bagged and flown out for correct disposal. Any soil contaminated by spilled fuel will be removed, burned to remove the fuel and then replaced. Fuel will be transferred from the drums directly to the fuel tanks of the powered equipment utilizing either manual or electric pumps. All necessary care will be taken by both Shear Minerals Ltd. and 974134 NWT Limited and its contract personnel to prevent spilling of any fuel during the transfer process.

All fuel drums will be removed once drilling is complete. Land Use operations are of a minimal impact and are temporary in nature.

Shear Minerals Ltd. Is focused primarily on exploration for diamonds in Nunavut and Northwest Territories and hopes to make significant advances on its Coronation Diamond Property within the coming year.

Summary

APEX Geoscience Ltd.
#200 9797-45 Avenue
Edmonton, Alberta T6E 5V8
2003 Water Licence Application
Kitikmeot Region, Nunavut – south of Bathurst Inlet

Mineral Exploration in the Kitikmeot Region, 60 km South of Bathurst Inlet

APEX Geoscience Ltd. (APEX), on behalf of its client 974137 NWT Ltd. (a wholly owned subsidiary of Shear Minerals Ltd.) is dedicated to exploring for economic mineral deposits in northern Canada. We have conducted exploration for diamonds south of Bathurst Inlet since 1998, and believe that the area could potentially host an economic diamond deposit. APEX is seeking to cooperate with the communities, local Inuit Associations, the Nunavut Government and the Federal Government so that all may benefit from mineral discoveries without adversely affecting the natural way of the wildlife, the people and the land.

The purpose of our activities under DIAND Land Use Permit #N2001C0014 (expiry June 27/04) and KTL #302C007 (expiry March 19/04) and the pending water licence are to evaluate the potential for economic concentrations of minerals on DIAND and Inuit owned land parcels within NTS map sheets 76G and 76J. Our plan is to conduct further claim staking, prospecting, rock sampling, geological mapping, and diamond drilling on approximately 30 geophysical targets in the field seasons of 2003/2004.

All field logistics, support and operations for previous exploration programs were based out of the city of Yellowknife. All 2003/2004 exploration will be based out of Kinross Gold Corporation camps in the region (already permitted). No camp will be established on Inuit Owned Land.

APEX Geoscience Ltd. conducts extensive exploration programs within Nunavut and the Northwest Territories. We recognize the importance of our role in discovering mineral deposits for our clients and that our exploration programs must be conducted in the most socially and environmentally responsible fashion possible.

APEX Geoscience Ltd.
#200 9797-45 Avenue
Edmonton, Alberta T6E 5V8
2003-Г ΔΛΓΑΥΔΝΟΠΡΩΤΕ ΕΔΙΣΚΡΙΒΕ ΤΗΣ ΑΝΘΡΩΠΟΥ
ΜΕΛΟΣ ΣΗ ΜΕΛΟΣ - ΠΡΩΤΟ ΜΕΛΟΣ

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፲፬፻፲፱ APEX Geoscience Ltd.-ድረ ልዩ ሪፖርት ላይ የተመሰረተ የፍትሕ ሪፖርት ላይ ለተጠቃሚው የሚገኝ ማረጋገጫ ሲገኝ ለሌሎች ማረጋገጫዎች ሊጠቀሙ ይችላሉ፡፡

Legend

- ★ High Priority Drill Target; Identifier
- ☆ Medium Priority Drill Target; Identifier
- ☆ Low Priority Drill Target; Identifier
- ▲ Camp; Identifier
- Proposed Shear Camp Location
- Shear's PS Mineral Claims
- Shear's JR 3 Mineral Claim; Exp. 05/05/2004
- Shear's JR 1 Mineral Claim; Exp. 05/05/2005
- Shear's GUM Mineral Claims; Pending
- Shear's DOG Claims; Pending
- George and Goose Claims

Kitikmeot Land Claims

Lakes

Rivers

SHEAR MINERALS LTD.

CORONATION DIAMOND PROPERTY

2004 Proposed Exploration
NTS 76G, J

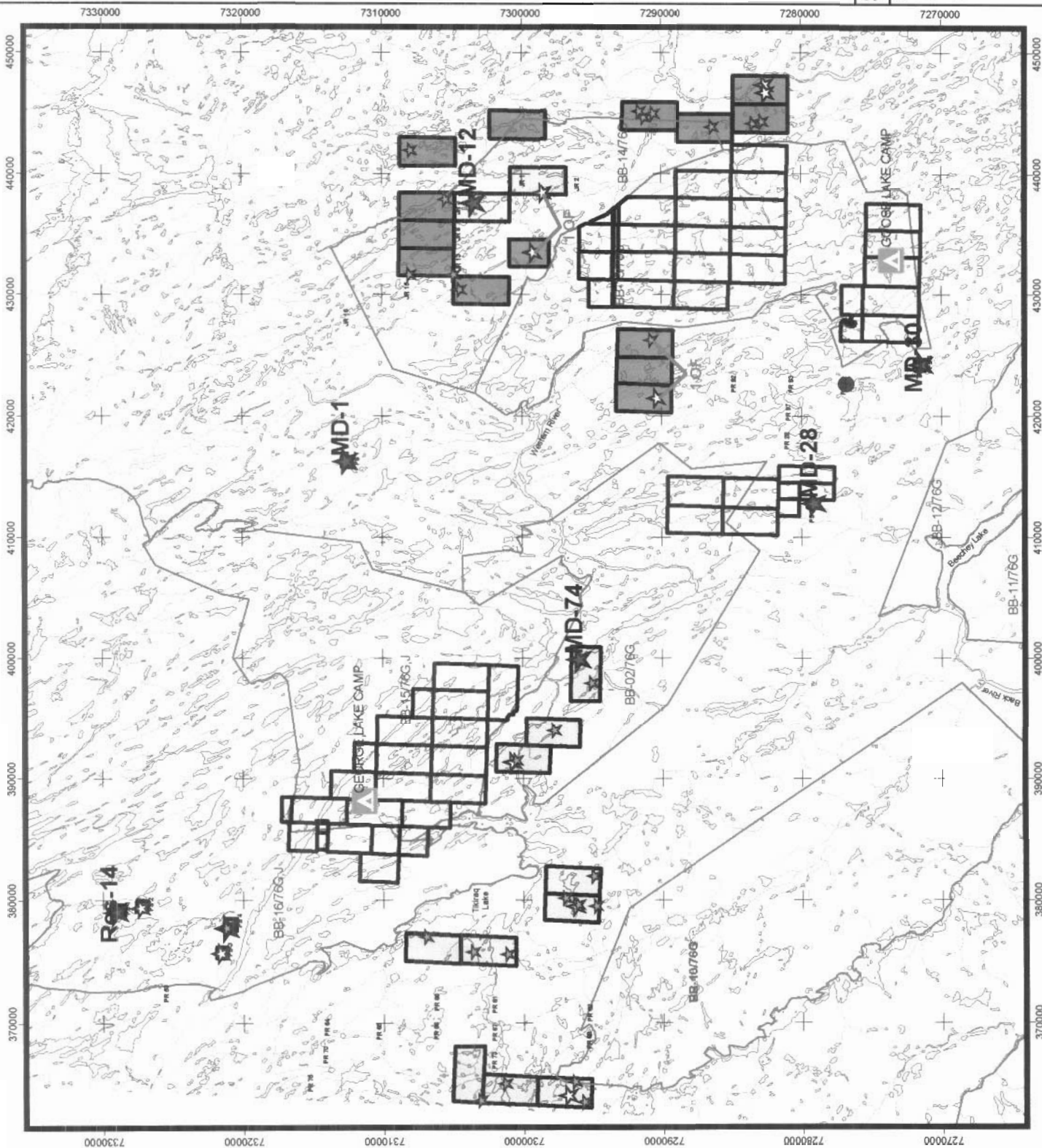
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APEX Geoscience Ltd.

Edmonton AB

JULY 2003

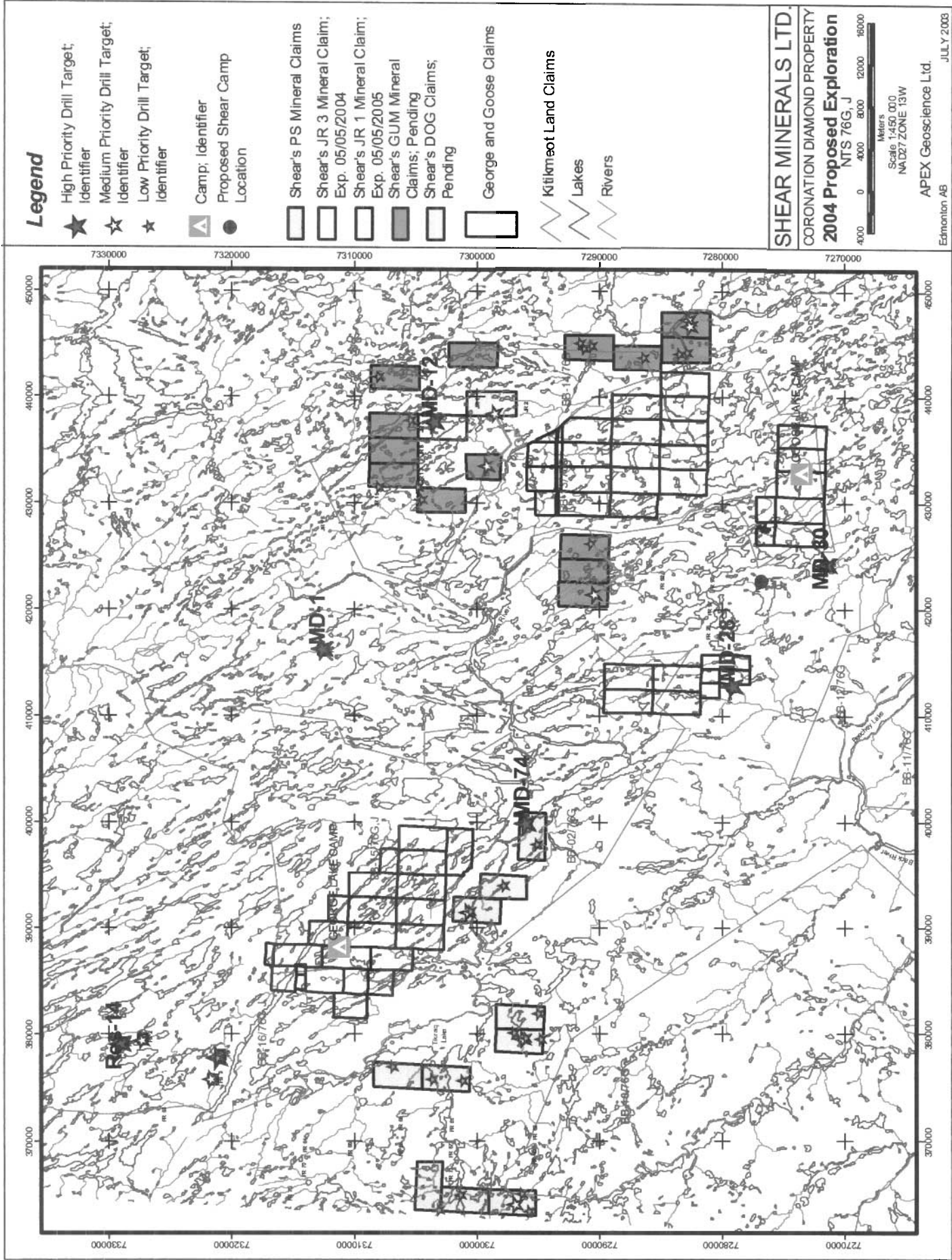


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