

# ASSOCIATION OF CANADA LANDS SURVEYORS

## BOARD OF EXAMINERS

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### SCHEDULE III / ITEM 1 ACTS AND REGULATIONS RELATING TO SURVEYS OF CANADA LANDS

**October 2003**  
(March 18, 1999 Regulations)

#### Notice to Candidates:

On April 1, 2003 the Government of Yukon took over administration of all lands and mineral resources in Yukon. Legislation was created that mirrors the *Territorial Lands Act*, the *Yukon Placer Mining Act* and the *Yukon Quartz Mining Act*. As the new statutes are not yet accessible on the Internet and have not yet been issued as a revision insert to the Manual of Instructions, the present three statutes of Canada appearing in the Manual continue to apply for the purposes of this examination. Candidates who choose to answer questions based on the successor legislation must clearly state this fact in order for marks to be awarded on that basis.

This examination consists of 6 questions on 3 pages

#### Marks

#### Q. No

Time: 3 hours

Value Earned

1. Dieter Heiss, a citizen and resident of Germany, visited the Yukon Territory for a vacation in the summer of 1996. Having a background in mineralogy, he became interested in placer and lode gold deposits in the Klondike region of the territory. After visiting the mining recorder's office for the Dawson mining district, and armed with copies of the relevant legislation, he selected an area he thought had significant mineral potential and proceeded to locate the KARLA mineral claim of the full size. In close proximity to it he also located a placer mining creek claim of the full size, ROSA, on Hunker Creek with a surveyed baseline and prior recorded placer mining claim activity. The claims were located in technical compliance with the relevant legislation and did not include lands of any other claim or each other. The claims were both located on June 1, 1996 and were both recorded 17 days later on June 18. The mining recorder, having a heavy summer claim staking volume, finally issued the grants for the two claims on July 20, 1996.
  - a. Draw a neatly labeled sketch to an appropriate scale showing the mineral claim and the placer mining claim. Indicate the location posts with number and show the relationship of the placer claim to the creek and official baseline. Provide full dimensions for each claim. 6
  - b. Creating any necessary details not supplied, indicate the inscriptions which will appear on the post No. 1 of the KARLA mineral claim. 2
  - c. Creating any necessary details not supplied, indicate the inscriptions which will appear on the legal post No. 2 of the ROSA placer claim. 2
  - d. What is the minimum distance in miles from the claims to the office of the mining recorder? 4
  - e. If Heiss fails to perform the required eligible representation work on his ROSA placer claim, on what date will it lapse? 2
  - f. If Heiss performs the required eligible representation work on his KARLA mineral claim, by what date must he file an affidavit detailing the work with the mining recorder? 2
  - g. Heiss worked the ROSA placer claim and was excited by his gold recovery. He decided to locate a second creek placer claim, MARIA, adjoining the ROSA on its upstream side. What is the earliest date he was entitled to locate the second claim? 2
  - h. Heiss returned to his Hunker Creek mining property the following summer and because of additional staking activity in the area, decided to have legal surveys made of his KARLA, ROSA and MARIA claims. Using a sketch similar to the one you have drawn in "a." above, with the MARIA claim added, indicate by dark solid circles the monumentation that would have been placed by the Canada Lands Surveyor in making the surveys. 5

i.	Under what statutory authorities were the three claims located?	2
j.	Under what statutory authorities were the legal surveys made?	3
2.	a. For the survey of the KARLA mineral claim made in Question 1.h., the CLS has line of sight between the corners of the claims. What is the allowable angular misclosure for the survey of the claim?	3
	b. What is the semi major axis of the error ellipse showing the 95% confidence region for the minimum accuracy standard for the KARLA survey?	4
3.	a. Under what statutory authority would the Governor-in-Council set apart and appropriate territorial lands for an airport or railway station?	2
	b. What official has the responsibility for granting to an Indian band the right to exercise control and management over lands in a reserve occupied by that band?	2
	c. What official has the responsibility for direction of the issuance of instructions for surveys of claims pursuant to the <i>Yukon Placer Mining Act</i> ?	2
	d. Identify three situations where a 100 foot strip of land is deemed reserved to the Crown out of every grant of territorial lands pursuant to the <i>Territorial Lands Act</i> .	3
	e. What official is responsible for the collection of any excess area charge in conjunction with the legal survey of a mineral claim pursuant to the Canada Mining Regulations?	2
	f. Which federal minister has responsibility for the administration, management and control of National Parks?	2
	g. Name the two statutory sources for the Canada Oil and Gas Land Regulations.	2
	h. Under the <i>Land Titles Act (Yukon)</i> , who, other than witnesses, must sign a map of subdivision of privately owned lands or town-plots?	4
	i. What official may make regulations for the purpose of carrying out the provisions of the <i>Condominium Act (NWT)</i> ?	2
	j. To whom must any surrender of lands in a reserve for Indians be made?	2
4.	a. Identify four types of monuments authorized for surveys of Canada Lands.	4
	b. Identify three types of ancillary monumentation authorized in the General Instructions for Official Surveys.	3
	c. Without retracement, under what four conditions may a surveyor adopt the boundary of a prior official survey that he has personally measured?	4
	d. Give the six elements that must describe a non-tangential circular curve boundary on official field notes for a survey under the <i>Canada Lands Surveys Act</i> .	6
5.	Give the complete Canada Oil and Gas Land Regulations designation for the unit(s) immediately north of Unit M, Section 20, Grid Area 68°00, 133°30, Yukon Territory.	8
6.	a. Identify one type of transaction which an explanatory plan cannot be used for.	2
	b. Identify the three authorized forms in which official field notes may be prepared.	3
	c. When Canada Lands within a province are surveyed under instructions of the Surveyor General, what procedure is followed to avoid or minimize conflict between federal and provincial survey requirements? In general, which standard of survey is followed?	5
	d. What is the maximum size of a mineral claim that can be located pursuant to the Canada Mining Regulations?	3
	e. What is the constant scale factor along the central meridian of a zone in the Universal Transverse Mercator (UTM) system?	2

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**Total Marks    100**