

INFORMATION NOTICE 18-02 (Revised)

June 16th, 2021.

CORE & DRILL CUTTINGS
EXAMINATION, SAMPLING, REMOVAL & ANALYSIS

(This Information Notice supersedes Information Notice 95-4, 08-05 & 10-02)

The Department of Agriculture and Resource Development (ARD) maintains a secured storage and examination facility for samples of core and drill cuttings taken from wells drilled under the *Oil and Gas Act* and the *Mines and Minerals Act* in Manitoba. ARD receives many requests to examine, sample, remove and analyze samples from this facility. This notice establishes ARD's policies in dealing with these requests.

Appointments to examine samples can be made by contacting the Midland Sample & Core Library. However, written permission must be obtained to sample, remove or analyze samples submitted under the *Oil and Gas Act*. All requests shall be made on the *Midland Sampling, Removal & Analysis Application Form* (Appendix 1). There is no cost to apply but please be aware the applicant assumes all costs associated with their request.

Section 112(3) of the *Drilling and Production Regulation* state: "No person shall destroy or damage a core, except as is reasonably necessary for the purpose of analysis, without the written approval of the director." Hence the following conditions have been imposed on all sampling and removals:

Sampling Policies

- 1) If core or cuttings have been previously sampled, the Director has the right to limit further sampling;
- 2) Core sampling shall consist of a maximum of one sample for every 12 inch length of core and individual samples shall not exceed one cubic inch for full diameter core or one half diameter for small diameter core;
- 3) Core plug sampling is restricted to the minimum core plug size required to do the analyses, but is not to exceed a one inch diameter by two inch length;
- 4) Where a core has been slabbed, samples shall be removed from the back face of the core and, where possible, be taken from existing ends or pieces of core;
- 5) Formation contacts or other unique features shall not be completely removed or destroyed;
- 6) In core, only the 1/3 portion of a slabbed core may be cleaned; and,
- 7) Sampling of drill cuttings shall not exceed one quarter of the cuttings from each vial. Sampling from vials less than one half full will not be permitted.

Removal Policies

- 1) Samples will not be removed from Manitoba for the sole purpose of examination;
- 2) Drill cutting trays will not be removed from the Midland Sample & Core Library;
- 3) The samples are to be shipped directly to and from the approved analytical core laboratory;

- 4) Requests are limited to two wells per shipment unless otherwise approved by the Director;
- 5) Subsequent well shipment requests for the same company will only be considered once the first shipment has been returned to the Midland Sample and Core Library and its integrity has been maintained to the satisfaction of the Director; and,
- 6) Return the samples to the Midland Sample and Core Library by the expected sample return date stated on the approved *Midland Sampling, Removal & Analysis Application Form*. The core must be returned within 45 days of its shipment, or before the 30 day core viewing period prior to a land sale, whichever is sooner unless longer analysis times are approved.

Deliverables

- 1) Removed core shall be slabbed before it is returned to the Midland Sample & Core Library. Where possible the core should be slabbed into one third/two thirds portions and stored together in the original core box;
- 2) As per Section 112(4) & 117 of the *Drilling and Production Regulation* the applicant shall submit a digital copy of all analyses performed within 30 days after the day the sample or report is obtained. Submission shall be to Data Submissions at Regulatory Services; and,
- 3) Submit a duplicate set of all thin sections prepared, labeled in the following format: MB Licence number/Top Measured Depth in meters i.e. MB 5555/522.33.

Contact Information

Shipping and sampling approvals:

Manitoba Geological Survey

360-1395 Ellice Ave, Winnipeg, Manitoba R3G 3P2.

Tel: (204) 945-6506 Fax: (204)945-6506 Email: Pamela.Fulton-Regula@gov.mb.ca

Viewing or submitting core or drill cuttings:

Midland Sample & Core Library

10 Midland Street, Winnipeg, Manitoba R3E 2Y6.

Phone: (204) 945-6550 Email: Colin.Epp@gov.mb.ca

Hours of operation: Monday to Friday, 8:00am to 4:00pm

Data Submissions (As per Information Notice 13-05):

Regulatory Services

360-1395 Ellice Ave, Winnipeg, Manitoba R3G 3P2.

Email: petroleum@gov.mb.ca (Preferred)

Core moves (Use restricted during pandemics):

Pinnacle

390 Graham Ave., Winnipeg, MB R3C 0L4.

Tel: (204) 943-9675 Fax: (204) 943-0060 Website: www.pinnacle.jobs

Appendix 1



Date Received:
Tracking #:

Midland Sampling, Removal & Analysis Application Form

Applications to:
P. Fulton-Regula M.Sc., P.Geo, Senior Petroleum Geologist Email: Pamela.Fulton-Regula@gov.mb.ca

Applicant Information

Name:	
Company:	
Physical Address:	
Phone:	Email:

Shipping Information

Shipping company:	
Shipping Account #:	
Lab name:	Contact Name:
Physical Address:	
Phone:	Email:

Core Required

(maximum 2 wells per shipment)			
Well Licence	UWI	Top Depth	Bottom Depth

Core may be removed from the Midland Core Storage facility for up to 45 days, if more time is required please explain:

Proposed Analysis (Check all that apply)

Routine Core	Petrographics
<input type="checkbox"/> Core Gamma	<input type="checkbox"/> Thin Sections
<input type="checkbox"/> Permeability, porosity, bulk and grain density	<input type="checkbox"/> X-Ray Diffraction (XRD)
<input type="checkbox"/> Mercury Capillary Pressure	<input type="checkbox"/> Scanning Electron microscope
<input type="checkbox"/> Core Photography	<input type="checkbox"/> Detailed core descriptions
<input type="checkbox"/> Shale rock Properties analysis (SRP)(water, gas and oil saturation, dry grain and bulk density, total porosity, pressure decay permeability)	<input type="checkbox"/> Detailed fracture descriptions
Geochemical	Geomechanical Properties
<input type="checkbox"/> Vitrinite reflectance	<input type="checkbox"/> Triaxial compressive strength test: triaxial compressive, static Young's modulus, Poisson's ratio
<input type="checkbox"/> Total Organic Content (TOC) & pyrolysis	
<input type="checkbox"/> Adsorption, desorption	
<input type="checkbox"/> Gas isotopes	
<input type="checkbox"/> Rock evaluation	<input type="checkbox"/> CT-Scan

Other (Please specify):

Notes	
<p>This application is subject to the following:</p> <ol style="list-style-type: none"> 1. No person shall destroy or damage a core, except as is reasonably necessary for the purpose of analysis, without the written approval of the director (Drilling and Production Regulations section 112(3)). 2. The Manitoba Resource Development Division retains the right to contact the laboratory performing the analysis on behalf of the operator to review the status of the core and the analysis performed. 3. Applicants must submit a revised Midland Sampling, Removal & Analysis Application Form for any incremental types of analyses conducted, or when analyses are removed from the scope of work to be performed. 4. The information requested on this form is collected under the authority of, and used for the purpose of, administering the Oil and Gas Act. This information may be released subject to the Freedom of Information and Protection of Privacy Act. 5. All conditions within Information Notice 18-02 (Revised) will be adhered to. 	
Applicant Signature	Date (YYYY/MM/DD)

Agriculture and Resource Development Division Use Only		
Approved: <input type="checkbox"/> Yes <input type="checkbox"/> No	Date (YYYY/MM/DD)	Signature of Approving Authority
Core ship date (YYYY/MM/DD):		
Expected core return date (YYYY/MM/DD):		
Expected report submission date (YYYY/MM/DD):		
Samples returned: <input type="checkbox"/> Yes <input type="checkbox"/> No	Date (YYYY/MM/DD):	
Reports received: <input type="checkbox"/> Yes <input type="checkbox"/> No	Date (YYYY/MM/DD):	
Thin sections received, if applicable: <input type="checkbox"/> Yes <input type="checkbox"/> No	Date (YYYY/MM/DD):	
Late submission follow-up		
Date	Comment	