

GEOSCIENCE EXPLORATION GUIDELINES

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l. Introducti	on .
	This document is provided for the general information of companies or individuals planning to conduct geoscience exploration for oil and gas in Yukon
	Geoscience exploration for oil and gas includes geological operations, geophysical operations and test hole operations.
	The Yukon Oil and Gas Geoscience Exploration Regulations specify requirements for the authorization, operation and reporting of all geoscience exploration in Yukon. The Yukon Oil and Gas Licence Administration Regulations specify additional general requirements for the licensing of all oil and gas activities. These regulations can be found on the Oil and Gas Resources Branch (the OGRB) web site at www.yukonoilandgas.com or by calling 867-667-3427.
2. Purpose of	Guidelines
	Use these guidelines to:
	Apply for a Geoscience Exploration Licence
	apply for an amendment to an existing Geoscience Exploration Licence
	submit reports during and after operations
	ensure that all policies and procedures are met for every geoscience operation
3. Applicatio	1 for a Geoscience Exploration Licence
3.1 Submiss	on 3 copies of all applications must be submitted to:
	Chief Operations Officer Oil and Gas Resources Branch Department of Economic Development Government of Yukon P.O. Box 2703 Whitehorse, Yukon, Y1A 2C6
3.2 Timing	Applications must be submitted
[GER sec.	• for a new licence, at least 30 days prior to commencement date of operation
	• for a change in duration, at least 15 days before end of period being extended
	for other modification, at least 15 days prior to commencement of modified operation
3.3 Cancella	The Chief Operations Officer may cancel the licence if
[GER sec.	• the operation is not commenced within 90 days of the specified operation commencement date on the licence
	at the request of the licensee prior to commencement of operation
3.4 Procedu	

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Step 2: Licensee	Enter the applicant's company name and identification code.		
	Each company is designated an identification code upon registration with the OGRB. If this information is not available, call the OGRB to obtain an identification code.		
Step 3: Application Purpose	Check the appropriate box. Enter the original licence # only if the application is for a modification.		
Step 4: Operation	Check the box that corresponds to the operation that is being applied for.		
Туре	Geophysical Operation: Includes any indirect investigation of the earth's subsurface other than velocity or vertical seismic surveys (but includes walkaway vertical seismic surveys).		
	Geological Operation: Includes any investigation of the surface and near-surface of the earth other than test holes.		
	 Geological mapping includes taking soil, rock or geochemical samples, measurements of lineaments and other geological features, noting lithological, stratigraphic, sedimentological and paleontological details of rock outcrops, etc. 		
	Aerial photography includes only that for the purpose of locating oil or gas.		
	 Geotechnical surveys include any geological surveys that do not penetrate the surface of the earth, excluding aerial photography and geological mapping. 		
	 Ground penetrating surveys include near-surface investigation of the earth such as tomography and ground penetrating radar. 		
	<u>Test Hole Operation</u> : Includes any hole drilled for near-surface investigation of the earth but is not intended for production or oil or gas.		
Step 5: Area	Select all areas into which the operation extends. A basin map may be obtained at the OGRB or from the OGRB web site.		
Step 6: First Nation	Select all traditional territories into which the operation extends.		
Traditional Territory	A detailed map of the traditional territories may be found at the Department of Renewable Resources web site http://www.renres.gov.yk.ca/pubs/rrgis/rrgismaps.html or by calling the Geographic Information Section Administrative Assistant at 867-667-5614.		
	Note that the Inuvialuit and Tetlit Gwichin are transboundary First Nations and are not part of the common regime. Liard and Ross River Dena may be represented by the Kaska Dena.		
Step 7: Surface Land Rights	Call the Yukon's Land Claims and Implementation Secretariat to determine who has the surface land rights at 867-667-5878, and the Land Titles office for titled land at 867-667-5612.		
Step 8: Location	Include extent of operation here, if it falls into more than one unit, section or grid area, include the whole extent.		
Step 9: Specifics of Operation	Enter the total number of personnel involved in the operation, including those that are part of the work crews.		
	Geophysical and Geological:		
	Exclusive survey: operation conducted to acquire data for the licensee only and not for sale.		
	Non-exclusive survey: operation conducted to acquire data for the purpose of sale to the public.		
	Participation survey: operation where the data acquired is to be shared among the participants.		
	Aerial extent: for linear operations (e.g. seismic) this is measured in kilometres, for operations that span in length and width this is measured in square kilometres.		
	Energy source: power source (e.g. explosive, vibrating)		

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	Depth: how deep the energy source is set, measured in metres from ground level.		
	Charge size: indicate explosive charge size in kilograms.		
	Source and detector parameters: indicate spacing for both the energy source and the detectors.		
	Patterns: indicate whether or not any patterns will be used, and how much energy source per pattern will be used.		
	Test Hole:		
	Proposed total depth should be given in true vertical depth (TVD) and measured depth (MD). Ground elevation is measured in metres above sea level.		
	Formation at total depth: indicate the last formation that will be drilled into.		
	Logs: list all logs that are to be run in the test hole, including deviation logs.		
Step 10: Timing of Operations	Insert expected date of commencement and completion of the operation. Note that completion is not reached until proper abandonment of any holes have been done and waste removed.		
Step 11: Estimated Expenditures	Estimate the total expenditures for the operation from beginning to end.		
Step 12: Other Permits / Agreements	If any of the following permits/agreements are required, check the Y box, otherwise check the N box. If they have been obtained (permits) or completed (agreements, consent, consultation) then check the C box and include the corresponding number where applicable. Note that more than one box may be checked at a time.		
[Oil and Gas Licence Administration Regulations, sec. 4]	Registration #: Fill in the number obtained under the Yukon's <i>Business Corporations Act</i> when the corporation is incorporated, continued or registered. If the corporation is incorporated or continued under the <i>Bank Act</i> (Canada) or licensed under the <i>Insurance Act</i> (Canada), provide the appropriate documentation to show this. Note that all companies operating in the Yukon must be registered. Details may be obtained from Corporate Affairs, Department of Justice at 867-667-5442.		
[Oil and Gas Act, sec.13]	Consent of First Nation(s): If the effective date of the Yukon First Nation's Final Agreement has not been reached, consent of that First Nation must be obtained by the OGRB before issuing any licences in the traditional territory of the Yukon First Nation.		
	The OGRB will request consent of the Yukon First Nation(s) prior to issuing the licence. Regardless of this, discussion by the applicant for a licence should commence with the First Nation(s) involved prior to application for a licence.		
	Details on the location of the First Nation settlement areas may be obtained from the Yukon Land Claims and Implementation Secretariat at 867-667-5858.		
[Oil and Gas Act, sec.68]	Benefits Agreement:		
	• If, in any 12-month period, work will entail costs over \$1,000,000, a benefits agreement must be in place prior to beginning any activity.		
	• A licence may be issued without a Benefits Agreement in place but there can be no activity until one is signed.		
	• The agreement is to be negotiated by the licensee, the Minister on behalf of the Yukon Government and the Yukon First Nation(s) on whose settlement land or traditional territory the oil and gas activity will be conducted.		
	Sample benefits agreements are available on the OGRB web site. Contact should be made with the OGRB for more details and for community contacts.		

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Step 13: Attachments	Indicate whether or not the following attachments are included in the application by checking Y (yes) or N (no).
	Geoscience Program includes the following 19 items:
	1. a page-sized plat showing the location of the operation in relation to adjacent rivers, other geographical and cultural features, or provincial/territorial boundaries;
	 a map showing the position of the proposed operation, interests to which the operation may apply, and proposed access roads or lines and camps,
	• scale: 1:50,000 to 1:250,000 usually appropriate, larger scale may be required,
	 details: show the proposed seismic lines in relation to existing geophysical control in the area,
	 for 3D surveys the in-lines and cross-lines should be identified and the area with less than full fold coverage should be indicated;
	3. a description of the operation
	Example: a description for a reflection seismic operation might be '1200% CDP reflection seismic' and include gravity and magnetic data and specify the charge size and depth;
	4. a breakdown of the number of kilometres for each type of seismic proposed (conventional, vibroseis, etc.);
	for an operation that crosses the Yukon border, the total size of the operation and the amount that will be carried out in the Yukon;
	6. a list the number of drilling and/or vibroseis units to be mobilized;
[GER sec.12]	7. for seismic lines that approach or cross well sites, an outline of the precautions that will be taken to ensure that the minimum blasting/vibroseis distances will be maintained around these sites;
	8. for seismic lines that intersect or approach known archaeological sites or First Nation Burial Sites, a description of the site and the measures that will be taken to ensure the site is not disturbed;
[GER sec.12]	9. for seismic lines that approach a gathering line or pipeline, a copy of the pipeline crossing agreement(s) and a description of the precautions that will be taken to ensure that the minimum blasting/vibroseis distances will be maintained around these sites;
	10. for an operation that is to be conducted using an aircraft,
	(a) the name and address of the aircraft owner/manager;
	(b) a general description of the aircraft including
	(i) registration, designation, call sign,
	(ii) dimensions,
	(iii) fuel capacity,
	(iv) range,
	(v) safety equipment, and
	(vi) communications and navigation equipment;

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(c) a description of the flight following procedures including the procedures to be followed in the event of an overdue contact;

11. a copy of the Emergency Response Plan to be followed in case of emergency;

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	12. a description of the communications systems to be used in the field and back-up procedures;		
	13. a specification of the maximum number of employees expected during peak activity;		
	14. a description of any lake or river crossings and monitoring procedures; and,		
	15. a description of the technical aspects of any ice-bridge and road construction.		
[Oil and Gas Act, sec. 67]	Environmental Assessment information is needed for the OGRB to undertake an environmental assessment. Provide information under the following headings:		
	 project description, 		
	 description of the environment (including known historic sites, results of any archaeological assessments, location of survey monuments, wildlife, waterways, etc.), 		
	• potential environmental impacts (including cumulative and socio-economic effects),		
	• proposed mitigation,		
	• public consultation / input,		
	• contingency plans.		
[Oil and Gas Licence Administration Regulations, sec. 14, 24]	Consultation and Notification: Consultation with land owners, trappers, outfitters, and the First Nation(s) on whose traditional territory the activity is to take place is required prior to application for a licence . The intent of this consultation is to unveil any concerns or sensitivities that these interest holders might have, address them during the planning stage of the operation, and provide information about how people can participate.		
	Notification to trappers is also required prior to activity commencement and may consist telephone calls, letters, or a meeting to explain what equipment will be used and the exact dates that the operation will be carried out.		
	Copies of all correspondence, dates and times of telephone calls, minutes of any meetings, concerns raised and measures taken to address them are required with the application and prior to commencement of operation.		
[Oil and Gas Act, sec.66 and Oil and Gas Licence Administration Regulations, sec.11]	<u>Proof of Financial Assurance</u> , when required, may be a letter of credit, a guarantee or an indemnity bond. The amount will be determined by the Minister and will reflect the risk associated with the operation. This is for the payment of prescribed claims. Contact the OGRB to determine if proof of financial assurance is required.		
[Oil and Gas Licence Administration Regulations, schedule B]	Application Fee: \$500 is payable at the time the application is submitted, it is non-refundable.		
	Details of any deviations from the GER's Check Y (yes) and include background information if		
	 there are any bold boxed items on the form that have been checked, or 		
	• other deviations from the regulations are being applied for.		
Step 14: Contact	Check either data acquisition OR drilling contractor and enter their contact information.		
Information	Check either data processing OR logging contractor and enter their contact information. If any of the fields do not apply in the contact information boxes, leave them blank.		
	The application form must be signed and dated.		

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4. Other Permits and Licences that May Be Required Prior to Commencement of Operation			
[Territorial Lands Act (Canada)]	LAND USE PERMIT: Required for the short term use of federal land.		
[Yukon Forest Protection Act (Canada)]	BURNING PERMIT: Required for burning of refuse, issued from April to September.		
[Yukon Waters Act (Canada)]	WATER LICENCE: Required for the use or diversion of water, and for the discharge or deposit of waste into water.		
[Highways Act, Highways Regulations]	PERMIT FOR PERFORMANCE OF WORK ON A HIGHWAY: Required for temporary activity (less than one year in duration) within a highway right of way. LICENCE OF OCCUPATION: Required for semi-permanent activity within a highway right of way. OTHER PERMITS are required for erecting signs within a highway right of way and for construction of highway access. "Highway" includes any thoroughfare, cut line, street, road, trail, avenue, parkway, driveway, viaduct, lane, alley, square, bridge, causeway, trestleway or other place, whether publicly or privately owned, any part of which the public is ordinarily entitled or permitted to use for the passage of vehicles.		
[Occupational Health and Safety Act, Blasting Regulations; Explosives Act (Canada), Explosives Regulations]	BLASTER'S PERMIT: Required for preparing, placing and firing of a charge, the handling of a misfire and the destroying of any explosive materials. MAGAZINE LICENCE: Required for all magazines, for storing explosive materials beyond normal working hours.		
[Historic Resources Act / Yukon Act (Canada)]	HERITAGE RESOURCE IMPACT ASSESSMENT / ARCHAEOLOGICAL SITES REGULATIONS PERMIT: May be required for activity at a site where there are historic resources or human remains that are likely to be damaged or destroyed by the activity. The permit is required to conduct any heritage resource assessment including historic, archaeological and palaeontological resources. If a historic site is discovered, refer to the Guidelines Respecting the Discovery of Human Remains and First Nation Burial Sites in the Yukon, available at the Heritage Branch of the Department of Tourism 867-667-5386 or at their web site www.yukonheritage.com .		

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5. 1	Reporting Requirement	S
		d in this section may be provided by fax or e-mail to the Oil and Gas Resources Branch. section should include on the title page the Geoscience Exploration Licence number, the report title, the type of operation conducted, the location of the operation, the duration of operations at that field location, the names of the contractors, the licensee, the author of the report, and the date of the report.
5.1	Significant Date Notification [GER subsec.27(1)]	Notification of the following significant dates must be submitted by fax or phone by the end of the day on which they occur: • commencement of operation, • suspension of operation, • re-commencement of operation, • termination of operation, and • completion of operation.
5.2	Activity Report [GER subsec.27(2)]	A weekly activity report is required on the progress of a test hole, geophysical or geological operation. Timing of submission: Monday morning each week during the operation, beginning the first Monday after commencement of the operation and every Monday thereafter Content: as outlined on the form provided in Appendix 1
5.3	Test Hole Operation Final Report [GER parag.28(a)]	A final report is required on all of the operational and engineering information that is relevant to the test hole operation. This information is kept confidential for 3 years. Timing of submission: • within 90 days after completion or termination of the operation Content: (a) an introduction; (b) the participants and interest owners, if any, (c) the general test hole data including total depth, the survey relationships for each test hole to the nearest corner of the unit in which the test holes are located and the ground elevation of each test hole in metres above sea level; (d) a summary of drilling and related operations in respect of each test hole; (e) a summary of any conflicts with trappers or other interested parties; (f) a summary of unanticipated environmental impacts such as observed displacement of wildlife or wildlife incidents or encounters; (g) geological (including palaeontological) information; and (h) two copies of any wireline logs, stratigraphic logs, petrophysical analyses and special studies or reports resulting from all tests and analyses.

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5.4 Geophysical **Operation Final** Report

[GER sec.29]

A final report is required on all of the operational and engineering information that is relevant to the geophysical operation. This information is kept confidential for 15 years.

Timing of submission:

within 12 months after completion or termination of the operation

Content:

- (a) an introduction;
- (b) the participants and interest owners, if any,
- (c) location maps that show the boundaries of any existing permits or leases covered by the operation and the identification number of each permit or lease;
- (d) a summary of significant dates, the type and number of each type of equipment used, the production data, the total distance surveyed, the downtime per day, and the number of kilometres of data recorded per day;
- (e) a summary of weather and topographic conditions and their effect on the operation;
- (f) a summary of any communication with trappers or other interested parties;
- (g) a summary of environmental impacts such as observed displacement of wildlife or wildlife incidents or encounters, including a summary of observations made by the environmental/wildlife monitor, if applicable;
- (h) a copy of the program parameter sheet;
- (i) a copy of the processing label for each line of the program;
- (j) shotpoint maps, track plots, flight lines with numbered fiducial points, and gravity station maps, in approved format;
- (k) a fully processed, migrated seismic section for each seismic line recorded and, in the case of a 3-D survey, each line generated from the 3-D data set, in industry standard digital format or internet based format and including the side-label parameters;
- (l) a high-resolution seismic section for each line recorded in a pipeline route survey;
- (m) a series of gravity and magnetic profiles, if recorded, across all gravimetric and magnetic surveys for which interpretative maps have not been made;
- (n) * interpretative maps that are appropriate to the data collected including
 - (i) any relevant structure and isopach maps, time structure and time interval maps, velocity and residual velocity maps, and seismic amplitude and character change maps,
 - (ii) any final Bouguer gravity data and any residual or other processed gravity maps, and
 - any final total magnetic intensity contour data and any residual, gradient or (iii) other processed magnetic maps;
- (o) * synthetic seismograms and seismic modelling studies that use synthetic seismograms, vertical seismic profiles at wells that were used in the interpretation of the operation data, amplitude versus offset studies, and seismic inversion sections, if any; and
- (p) * the interpretation of maps and seismic sections including
 - (i) geological and geophysical correlations,
 - where applicable, correlations between gravity, magnetic and seismic data, (ii)
 - details of corrections or adjustments that were applied to the data during (iii) processing or compilation, and
 - (iv) the licensee's velocity information that was used in a time-to-depth conversion.

^{*} optional for non-exclusive surveys where the data is available for purchase by the public.

5.5 Geological Operation Final Report

[GER sec.30]

A final report is required for a geological operation. This information is confidential for 3 years.

Timing of submission:

• within 12 months after completion or termination of the operation

Content:

- (a) a table of contents:
- (b) an introduction or abstract;
- (c) a locality map, at a suitable scale, showing the location of the survey with respect to the oil and gas interests involved, permits or leases involved and latitude/longitude coordinates;
- (d) a statistical summary, including
 - (i) the mobilization and demobilization dates.
 - (ii) the significant dates such as commencement, suspension, recommencement and termination dates,
 - (iii) a summary of conditions pertaining to weather and terrain, and
 - (iv) a summary of factors which caused significant downtime;
- (e) a description of the field procedures;
- (f) a summary of any communication with trappers, guides, outfitters or other resource owners:
- (g) a summary of environmental impacts such as observed displacement of wildlife or wildlife incidents or encounters, including a summary of observations made by the environmental/wildlife monitor, if applicable;
- (h) a summary or abstract of the objectives and results of the operation which ties the project into the regional framework;
- (i) geological base maps showing outcropping rock formation, surface structural information or any other spatially distributed information which has been mapped;
- (j) any interpretative maps as may be prepared indicating inferred paleogeography, facies, formation isopach, or structure;
- (k) cross-sections indicating stratigraphic correlations;
- (l) descriptions of measured sections, indicating sampling points;
- (m) sample descriptions;
- (n) list of coordinates of sampling points or sampled sections and a map showing location of localities visited and cross-referenced to catalogue numbers of samples;
- (o) results of micro-paleontological and palynological analysis as relates to biostratigraphic correlations;
- (p) results of geochemical analyses and any other analyses performed to further characterize the original condition of the samples taken; and
- (q) photographic records or other imagery as appropriate.

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5.6 Other Reports

5.6.1 Flowing Hole Report

[GER parag.16(f)]

Every licensee must submit a flowing hole report when there is water or gas that flows to surface of a test hole or shot hole.

Timing of submission:

• as soon as the hole is plugged

Content:

• as outlined on the form provided in Appendix 1

5.6.2 Supplementary Non-Exclusive Survey Report

[GER subsec.29(4)]

A supplementary non-exclusive survey report is required once the survey data ceases to be made available for sale.

Timing of submission:

• within 12 months after the survey data ceases to be made available for sale

Content:

• all of the data in (n), (o), and (p) of the geophysical final report that has not previously been submitted (5.4 above)

Note: contact the Chief Operations Officer if the above data is not available.

5.6.3 Purchase Credit Report

[GER subsec.29(5)]

A purchase credit report is required when there is a purchase of geophysical data that is used as a credit towards a work deposit or rental requirement.

Timing of submission:

• by the time the costs are credited

Content:

• all of the data in (n), (o), and (p) of the geophysical final report (5.4 above)

5.6.4 Purchase and Reprocess Credit Report

[GER subsec.29(5)]

Every licensee must submit a purchase and reprocess credit report when there is a purchase of geophysical data that is reprocessed and the costs are used as a credit towards a work deposit or rental requirement.

Timing of submission:

• by the time the costs are credited

Content:

• all of the data in (h), (j), (k), (l), (n), (o), and (p) of the geophysical final report (5.4 above)

5.6.5 Participant Report

[GER subsec.29(6)]

A participant report is required by each participant that has done an interpretation of the data from a participation survey.

Timing of submission:

• within 12 months after the completion or termination of the operation

Content:

• all of the data in (n), (o), and (p) of the geophysical final report (5.4 above)

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5.6.6	Significant Event
	Notification

[GER sec.34]

Notification of any significant event must be made to the Chief Operations Officer immediately by telephone to either of the following numbers

- During regular working hours, Oil and Gas Resources Branch = **867-667-3427**
- Outside regular working hours, 24-hour emergency line = **867-667-5220** (Emergency Measures Organization)

The following are some examples of significant events: imminent threat to personnel, major injury, fatality, damage to property, threat to the environment, fire, loss of well control, oil or toxic spill, uncontrolled release of oil or gas.

5.6.7 Benefits Report

[GER subsec.29(6)]

A benefits report should be submitted for each licenced activity and may be a requirement of the benefits agreement.

Timing of submission:

• As required by the benefis agreement or within 3 months after the completion or termination of the operation

Content:

• as required by the benefits agreement or as outlined on the form provided in Appendix 1

6. Methods Approved by the Chief Operations Officer (COO) and the COO's Directions			
6.1	Plugging holes that flow gas or water	Contact the Chief Operations Officer	
	[GER parag.16(c)]		
6.2	Plugs and depths for temporarily unattended holes	Contact the Chief Operations Officer	
	[GER parag.18(2)(a)]		
6.3	Plugs and depths for permanent abandon. of shot holes	Contact the Chief Operations Officer	
	[GER parag.20(2)(b)]		
6.4	Sealing material for permanent abandon. of shot holes	Contact the Chief Operations Officer	
	[GER parag.20(2)(d)]		
6.5	Disposal of field waste and campsite abandonment waste	Contact the Chief Operations Officer	
	[GER sec's.23 & 24]		
6.6	Retention of data [GER sec.30]	All records relating to the geoscience operation must be retained in Canada by the licensee. This includes reports, accounts, statements, plans, maps, surveys, data, logs, rock samples, core samples, drill cores and drilling cuttings and any other samples or documents.	
7. Standard Requirements and Policies			
7.1	Credit towards a work deposit	In the event that a disposition is held, credit towards a work bid may only be claimed for work done within 3 km of the boundary of the disposition, and only up to the amount claimed for work done within the boundary of the disposition. A licensee may apply to have additional	
	[Oil and Gas Disposition Regulations, subsec.12(1)]	work considered. Technical information must be provided to the OGRB prior to submitting the claim for credit.	

8. Oil and Gas Resources Branch Contacts				
	General Inquiries	Anne Jessup	Sharon LeGoffe	
	Tel: (867) 667-3427	Oil and Gas Technician	Administrative Assistant	
	Fax: (867) 393-6262	(867) 393-7132	(867) 667-3427	
	www.yukonoilandgas.com	anne.jessup@gov.yk.ca	sharon.legoffe@gov.yk.ca	
	John Masterson	Tim Sellars	Sandy Birrell	
	Manager	Database/GIS Administrator	Petroleum E.I.T.	
	(867) 667-5026	(867) 667-5012	(867) 393-7079	
	john.masterson@gov.yk.ca	tim.sellars@gov.yk.ca	sandy.birrell@gov.yk.ca	
	Riona Freeman	Richard Corbet		
	Senior Petroleum Geologist	Petroleum Engineer		
	(867) 667-8525	(867) 667-3565		
	riona.freeman@gov.yk.ca	richard.corbet@gov.yk.ca		

9. 0	9. Other Territorial and Federal Contacts				
9.1	Yukon Department of Renewable Resources	Environmental Protection and Assessment Branch Manager, Environmental Assessment Section #10 Burns Road, Whitehorse, Yukon, Y1A 4Y9 Telephone: (867) 667 - 5409 Facsimile: (867) 667-3641			
9.2	Yukon Department of Community and Transportation Services	Director, Public Safety Branch Yukon Government Administration Building Telephone: (867) 667 - 5824 Facsimile: (867) 393 - 6249 Director, Transportation Maintenance Branch 9029 Quartz Road, Building 275, Whitehorse, Yukon Telephone: (867) 667 - 5761 Facsimile: (867) 667 - 3608			
9.3	Yukon Land Claims and Implementation Secretariat	Director, Planning and Administration 2 nd Floor, 204 Main Street, Whitehorse, Yukon Y1A 2B2 Telephone: (867) 667 - 8253 Facsimile: (867) 667 - 3599			
9.4	Yukon Workers' Compensation Health and Safety Board	Chief Safety Officer 401 Strickland Street, Whitehorse, Yukon, Y1A Telephone: (867) 667 - 3788 Facsimile: (867) 393 - 6279			
9.5	Yukon Heritage Branch	Yukon Archaeologist, Heritage Branch, Department of Tourism 303 A Strickland Street, Whitehorse, Yukon, Y1A 6C2 Telephone: (867) 667 - 5983 Facsimile: (867) 667 - 5377			
9.6	Fisheries and Oceans Canada	Area Manager 101 - 419 Range Road, Whitehorse, Yukon Y1A 3V1 Telephone: (867) 393 - 6717 Facsimile: (867) 393 - 6738			
9.7	Department of Indian Affairs and Northern Development Canada	Head, Land Use Room 345, 300 Main Street, Whitehorse, Yukon Y1A 2B5 Telephone: (867) 667 - 3173 Facsimile: (867) 667 - 3196 Yukon Regional Manager, Forest Resources Room 345, 300 Main Street, Whitehorse, Yukon Y1A 2B5 Telephone: (867) 667 - 3307 Facsimile: (867) 667 - 3196			
9.8	Yukon Territory Water Board	Manager, Water Board 419 Range Road, Whitehorse, Yukon Telephone: (867) 667 - 3984 Facsimile: (867) 668 - 3628			

10. **Yukon First Nation Contacts**

Phone and Address Listing as of Monday, September 25, 2000 Check web site http://www.yukonsite.com/firstnations.htm for most up-to-date listing

		Address		Fax Number	E-Mail Address
10.1	Council of Yukon First Nations	11 Nisutlin Drive Whitehorse, Yukon Y1A 3S4	667-7631	668-6577	jmacdonald@cyfn.net
10.2	Carcross/ Tagish First Nation	Box 130 Carcross, Yukon Y0B 1B0	821-4251 821-4261 821-3510 <u>Health & Social:</u> 821-4810	821-4802	
10.3	Champagne/ Aishihik First Nations	Box 5309 Haines Junction, Yukon Y0B 1L0 OR 304 Jarvis Whitehorse, Yukon Y1A 2H2	634-2288 Whitehorse Office: 668-3627	634-2108 667-6202	Web site www.cafn.yk.net
10.4	First Nation of Nacho Nyak Dun	Box 220 Mayo, Yukon Y0B 1M0	996-2265 996-2311 <u>Lands</u> : 996-2415	996-2107 Lands: 996-2829	
10.5	Kluane First Nation	Box 20 Burwash Landing, Yukon Y0B 1V0	841-4274 841-5121 <u>Land Claims:</u> 841-5501 <u>NNADAP</u> : 841-5141	841-5900	asikeyi@yknet.yk.ca
10.6	Kwanlin Dun First Nation	35 McIntyre Rd Whitehorse, Yukon Y1A 5S2	633-7800	668-5057	
10.7	Liard First Nation	Box 328 Watson Lake, Yukon Y0A 1C0	536-2131 536-2326	536-2332	lfnadmin@yknet.yk.ca
10.8	Little Salmon/ Carmacks First Nation	Box 135 Carmacks, Yukon Y0B 1C0	863-5576 863-5181	863-5710	
10.9	Ross River Dena Council	Gen. Del. Ross River, Yukon Y0B 1S0	969-2277 969-2311 Health and Social: 969-2722 Land Claims: 969-2832	969-2405 Health and Social: 969-2019 Land Claims: 969-2525	
10.10	Selkirk First Nation	Box 40 Pelly Crossing, Yukon Y0B 1P0	537-3331 537-3401	537-3902	

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10.11	Ta'an Kwach'an Council	Box 32081 Whitehorse, Yukon Y1A 5P9	668-3613	667-4295	
10.12	Teslin Tlingit Council	Box 133 Teslin, Yukon Y0B 1B0	1-800-638-9288 390-2532 390-2560 <u>Lands</u> : 390-2005	390-2204	
10.13	Tr'ondëk Hwëch'in Hän Nation (Dawson First Nation)	Box 599 Dawson City, Yukon Y0B 1G0	993-5385 <u>Land Claims:</u> 993-6937	993-6553 <u>Land Claims</u> : 993-6846	trondekh@yknet.yk.ca
10.14	Vuntut Gwitchin First Nation	Box 94 Old Crow, Yukon Y0B 1N0 OR 200-303 Strickland Whitehorse, Yukon Y1A 2J9	966-3261 <u>Land Claims</u> : 966-3606	966-3116 966-3800 <u>Land Claims</u> : 966-3820	
10.15	White River First Nation	Gen. Del. Beaver Creek, Yukon Y0B 1A0	862-7802 862-7908 Whitehorse Office: 633-4226	862-7806	

Appendix 1 - Forms

The following forms must be used:

- 1. Geoscience Licence Application
- 2. Activity Report
- 3. Flowing Hole Report
- 4. Activity Benefits Report

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Geoscience Exploration Licence Application

Economic Development
Oil & Gas Resources Branch (F-4)
Box 2703, Whitehorse, YT Y1A 2C6

Oil and Gas Geoscience Exploration Regulations Oil and Gas Act

Office use only:
File #
Licence #
Date Stamp (received):

Tel: 867-667-3427
Fax: 867-393-6262
www.yukonoilandgas.com

nona.rreeman@gov.yk.ca			
1 Date	dd mm yyyy]	
2 Licensee (applicant)		Company Name	ID Code
3 Application Purpose	New Licence	Licence Modification - Original Licence	cence #
4 Operation Type - Geophysic	al Seismic Magnetic	Gravimetric Electromagnetic	Other (specify)
- Geologica	Geological Mapping Aerial Photography	Geotechnical Survey Ground Penetrating Survey	Other (specify)
- Test Hol	e Vertical	Directional	
5 Area	Bonnet Plume North Coast Other (specify)	Eagle Plain Old Crow Kandik Peel Plateau	Liard Plateau Whitehorse Trough
6 First Nation Traditional Territor (Transboundary	Kwanlin Dun Nacho Nyak Dun Ta'an Kwach'an Vuntut Gwitchin	Champagne & Aishihik Liard Ross River Dena Teslin Tlingit White River Kaska Dena	Kluane Little Salmon/Carmacks Selkirk Tr'ondëk Hwëch'in Hän (Dawson) Tetlit Gwichin
7 Surface Land Rights	Federal Land Yukon Land	First Nations Land (Category A) First Nations Land (Category B)	Fee Simple Land
8 Location	Field Work Camp Location Access		Description
9 Specifics of Operations	Number of Personn	el	
(Geophys. & Geolog.)	Exclusive for Participation		Non-Exclusive Purchase/Reprocess
	Areal Extent (km or sq. km) Energy Source		
	Depth (m) Charge Size (kg)	Source Paramete Detector Parame	
	Patterns No Ye	es If yes, total charg	e per pattern (kg)
(Test Hole)	Proposed TD (m) (TD = total depth) Formation at TD	TVDMD Ground Ele	evation (m)
	Logs		
10 Operation Period	Commencement Date (dd/mm/yyyy)	Completion Date (dd/mm/yyyy)	

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11 Estimated Expenditures	Field Work \$ - Data Processing \$ - Other \$ - Total	al \$ -
12 Other Permits/Agreements Y=Required, N=Not required C=Completed or Obtained	Registration Number # Consent of First Nation(s) Benefits Agreement	
13 Attachments Y=Yes attached N=Not attached	Geoscience program (Geoscience Exploration Guidelines) Environmental Assessment (Geoscience Exploration Guidelines) Consultation and Notification (Geoscience Exploration Guidelines) Proof of Financial Assurance (Oil and Gas Act, Section 66) Application Fee (Oil and Gas Licence Administration Regulations) Deviations from the Oil and Gas Geoscience Exploration F	Y N Y N Y N Y N Y N Y N Y N Y N
14 Contact Information		
Data Acquisition Contractor	Contact Name	
Drilling Contractor		
	Company Name	Phone Number
	Address	
		Postal Code
	e-mail address	Fax Number
Data Processing Contractor	Contact Name	Title
Logging Contractor		
	Company Name	Phone Number
	Address	
		Postal Code
	e-mail address	Fax Number
Data Interpretation Contractor	Contact Name	Title
	Company Name	Phone Number
	Address	
		Postal Code
	e-mail address	Fax Number
Licensee	Contact Name (s)	Title
		Phone Number
	Address	
		Postal Code
	e-mail address	Fax Number
	Name:	Title:
	Signature:	Date:



Tel: 867-667-3427

Activity Report

Oil and Gas Geoscience Exploration Regulations Oil and Gas Act

Office use only:
File #
Licence #
Date Stamp (received):

Fax: 867-393-6262 www.yukonoilandgas.com riona.freeman@gov.yk.ca	D.	ate Stamp (received):
REPORT FOR THE WEEK ENDING:		
Licence #: Licensee:		
Contractor:		
Area: Eagle Plain Liard Platea	au Peel Plateau	Kandik Basin
Other		
Field Telephone: Field Facsimile: Field email:	_	
Line #, Test Hole #, Other Activity	Progress (km, m)	Total to date (km, m)
_		
Inspections (Licensee or Contractor) Report to Oil and Gas Resources Branch	Yes No	
Any incidents in the last week Report to Oil and Gas Resources Branch		
Safety meetings		
Party Manager: Name: (please print)	Signature:	

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Flowing Hole Report
Oil and Gas Geoscience Exploration Regulations Oil and Gas Act

Tel: 867-667-3427 Fax: 867-393-6262 www.yukonoilandgas.com

Office use only:	
File #	
Licence #	
Date Stamp (received):	

1 Date	dd mm yyyy]	
2 Licence Number			
3 Licensee		Company Name	ID Code
4 Operation Type - Geophysica	Seismic	Other (specify)	
- Test Hole	· · · · · · · · · · · · · · · · · · ·	Directional	
5 Location	Field Work Hole Access	on(s) Grid Area(s)	Description
6 Area	Bonnet Plume North Coast Other (specify)	Eagle Plain Kandik Old Crow Peel Pla	Liard Plateau Whitehorse Trough
7 First Nation Traditional Territory (Transboundary)	Kwanlin Dun Nacho Nyak Dun Ta'an Kwach'an Vuntut Gwitchin	Champagne & Aishihik Liard Ross River Dena Teslin Tlingit White River Kaska Dena	Kluane Little Salmon/Carmack Selkirk Tr'ondëk Hwëch'in Här (Dawson) Tetlit Gwichin
8 Specifics of Operations (Geophysical)	Shot Hole Number	Line Number	
(Geophys. or Test Hole)	Depth (m) Diameter (mm)		/ Encountered (m) Flow Volume (litres/min.)
	Formation at TD		
9 Dates	dd mm yyyy Drilled	dd mm yyyyy Shot	Plugged
10 Action Taken to Control Flow	Plug Type:		
11 Contact Information Drilling Contractor	Contact Name Company Name		Phone Number Fax Number
Licensee	Contact Name Signature		Phone Number Fax Number

Fconomic Development Oil & Gas Resources Branch (F-4)

Box 2703, Whitehorse, YT Y1A 2C6

Activity Benefits Report

Oil and Gas Act

Office use only:
File #
Licence #
Date Stamp (received):

Tel: 867-667-3427
Fax: 867-393-6262
www.yukonoilandgas.com
john.masterson@gov.yk.ca

The information submitted in this report shall refer to all training, employment and business opportunities relating to the activity authorized by the Yukon Oil and Gas licence indicated below. Please do not include data from other programs.					
Licence #:	Licensee	:			
	ommencement Date: ompletion Date:				
Training:					
Date	Location	Course	Duration (days)	Number of participants	# Successful Completions

Location	0.00.00	_ \ <u>~, -/</u>	P <u>u</u> pc	into con <u>inpictions</u>

Business Opportunities:*

		Value of	Duration	How was contract	%
Name of Yukon Company	Contract Description	Contract	(days)	awarded?**	Yukon
				SS I PT	
				SS I PT	
				SS I PT	
				SS I PT	
				SS I PT	
				SS I PT	
				SS I PT	
				SS I PT	
				SS I PT	

^{*} This portion to include any Yukon companies that were part of any joint venture with a non-Yukon company.

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^{**} SS=Sole Source; I- Invitation; PT= Public Tender

Fmn	loyment:
	ioyinciit.

			Job Duration		
Name	Home town	Job title	(p <u>erson day</u> s)	FN	
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				Ш	
				Н г	21
					Please attach sheet if
					additional space is
				-	equired to complete
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Certified correct this	day of	, 200	<u>) </u>		
Name:		Signature			
	(please print)				

Please submit to Oil and Gas Resources Branch, Department of Economic Development within 6 months of completion of operation. Email to john.masterson@gov.yk.ca or fax to the branch at (867) 393-6262.

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