CEAA SCREENING FORM - LEVEL I

Department of Indian Affairs and Northern Development

1. Public Registry Required Information

EA Terminated:*

Chevron Canada Resources Applicant: FEAI I.D. Reference Number:* [A number assigned by the Agency; to be inserted here upon receipt of number from Agency] Subject Descriptors: inland waters, oil and gas, land use Chevron Ellice & Mallik 3D seismic - N2001B0034 Alias Project Title: DIAND Lead RA and Screening Division: Lands Administration, North Mackenzie District Office Rudy Cockney, North Mackenzie District, 867-777-3361 Lead RA Contact: CEAA Law List Regulations; Inclusion List Regulations; Inuvialuit Final Lead RA Trigger Types: Agreement Other Screening Trigger Types: IFA; NEB geophysical approvals, Water Licence 2001/10/20 EA Start Date:* [(YYYYMMDD] EA Type:* screening [Screening, Class Screening or Comprehensive Study] Physical Activity as identified from Inclusion List: Use of Crown Lands in the Territories; Use of Water; Oil & Gas Operations Physical Work and /or Activity Being Assessed: seismic operations, sleigh camp operation, fuel storage, water use, waste disposal Phase of Project / Primary Undertaking: 3D seismic program (camp, waste, fuel storage) Multiple Activities: Yes X No Indicate One: Project Category Code: Point Linear Areal (Circle one) Geographic Place Name: Inuvik, (Ellice & Mallik Islands) EA Determination:* 20-1-a [Final screening determination from subsection 20(1) -- see #12 of Screening Form and insert number here] **EA Determination Date:** 2001/10/29 Estimated Follow-up program termination date:

no

2. General File Information

NWT Water Board File Number: DIAND Land Use Permit Number: N7-1-1772 N2001B0034

NEB File Number:

9180-C843-1

Type of Application(s):*

New Land Use Permit

[eg new water licence; new Land Use permit, new NEB operations authorization]

Present licence/permit/lease number:

Nil

Proposed Date of Activity:

Start up Dec. 2001 to Aug. 2002 final cleanup

Other RAs or Screening Divisions:*

NEB, DIAND Water Resources for NWT Water Board

[Provided in Appendix D, CEAA EA Coordination]

If yes, is there an Integrated Screening underway? YES

Other RA Types of Approval:*

Geophysical Operations Authorization, NWT Water Licence

[Provided in Appendix D, CEAA EA Coordination]

Project File Location:

North Mackenzie Office, Inuvik, NT, NEB Office, Calgary, AB, NWT

Water Board, YK

DIAND District:

North Mackenzie, Inuvik

3. Proponent:

Chevron Canada Resources, Calgary, AB.

Type of proponent:

industry

4. Project Location:

Topographic Map Sheet Number:

107 C

Latitude / Longitude:

69 08 00 & 135 37 00 (project covers a large area)

Watershed:

Mackenzie delta

Drainage region:

Lower Mackenzie

Street Name:

n/a

Surrounding Land Status:

Crown Lands in the ISR

Special Designation:

Within the Community Conservation Plans Area, near the Kendall

Island Bird Sanctuary

5.a) Project Description

The program proposed by Chevron Canada Resources, on behalf of their joint venture partners: Burlington Resources Canada and BP Canada Energy Co., entails the acquisition of 432 km2 of 3D seismic data in three proposed 3D seismic blocks. An additional 59 km of 2D seismic that was previously approved during the Burlington 2000/2001 application, will

also be conducted as a continuation of last season's program. The proposed seismic blocks are located on Crown land within EL # 393, # 394 and #404, with some extension onto EL # 384. During the winter 2001/2002 Chevron is proposing to acquire up to 2654 linear kilometres (approximately 1592 ha) of 3D seismic data within the three seismic blocks. The results of the seismic programs will be used to delineate potential exploratory drill site locations on the lands that the Mackenzie Joint Project team currently holds.

Veri-Illuq has been contracted to conduct the seismic operations for Chevron and will provide the geophysical survey crews and equipment. The seismic crew will be housed in two sleigh mounted camps that will be situated at two locations within the proposed 3D blocks, at approximately 69 08 00 & 135 37 00 (Ellice) and 69 22 00 & 134 52 00 (Mallik). The program is scheduled to commence in December 2001, beginning with surveying and access route construction, and is anticipated to be complete by the end of April 2002. Seismic program will mainly use vibroseis as the energy source with dynamite as the secondary source on or beside waterbodies depending on certain conditions.

Camps are to be sent up at locations for 8 to 10 weeks. Incinolet toilets will be used and a grey water steamer will be utilized to steam off any grey water, if capacities are exceeded then grey water will be vac trucked back to town for disposal in the lagoon. Water for camp use will be taken from the Mackenzie River (approx. 15 cubic meters / day). Bottled water will be provided for human consumption.

Fuel sloops will be used for fuel storage with a total of approximately 28,000 liters being stored on site.

Describe thoroughly (e.g. duration of project, size of project, related physical activities, machinery used, fuels and chemical use and storage, etc.)

What sources of information did	you use?	[Information must be on the	public record]
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other government data	_x_ CEAA public registry system
historical maps	contour maps
scientific reports	 X Oil and gas water licence questionnaire
X Project Description for the EISC	other, specify: licence application

5.b) Describe any accidents or malfunctions that may occur in connection with the project.

Equipment through ice may result in a fuel spill (mechanical failure, operator error, thin ice), or ground disturbance on the banks of a water body (equipment tracks spinning on banks resulting in vegetation grubbing. Other fuel spills could result in ground contamination (from mechanical failure or operator error) or ground disturbance during clean-up (multiple equipment passes in one location). Sewage spills could contaminate land or water (sewage treatment plant mechanical failure or operator error) or disturbance during clean-up (multiple equipment passes in one location). Wildlife encounters, such as an attack on humans (surprise encounter) or personnel shooting or injuring wildlife (responding to perceived threat or actual attack) could occur.

Accidents and Malfunctions

- · equipment through ice
- equipment operators trained on environmental hazards
- do not attempt to remove the vehicle using inappropriate equipment
- · individual responsible for ice management on seismic crews
- dedicated ice-checkers
- advance planning to check ice prior to equipment arrival
- tailgate safety meetings
- ensure that appropriate equipment is available to retrieve the downed vehicle or to clean spill
- Program is designed to have flexibility in timing to allow for weather-related delays. If delays are extensive, the
 program would be reduced. Thin ice may be detoured around or snow cleared to enhance freezing. Seismic lines could
 be set back 30 m from water bodies. Contingency plans and emergency shelters in place to address sudden winter
 storms.

Federal Government	Contact Person	Dates Comments Received
DIAND		
Water Res.	✓ G. Cook, R. Jenkins, B. Re	eid
Geology		
Lands		
North Oil & Gas	_x	
Ec. Dev		
Env. & Cons.		
1&1		
D.M.		
DWRO/R.M.O.	x S. Gallupe, R. Walker	
DFO/CCG	x Inuvik & YK Offices	P.Cott Sept. 25
DOE	x EPS, YK Office	M. Dahl Sept 19
Health Canada		
DOT		
NRCan		
NEB	x Calgary	J. Korec
N.W.T. Government	Contact Person	Dates Comments Received
RWED	x Inuvik Office , YK Office	
Health	x D. Fleming	
Transportation	X Yellowknife office	Sept 10/01
Tourism		
MACA		
EM&PR		
PWNHC	X E.C.E. Yellowknife	Sept. 13/01
Other		
Aboriginal Groups	Contact Person	Dates Comments Received
EISC		Oct. 9 Approval
ILA (Tuk)		

Gwichin Land &Water B		
Ren. Res Comm.	Aklavik	
Metis Local #56	Aklavik	
Hunters & Trappers comm.	Aklavik	
Band Council	Aklavik	
Community Corp.	Aklavik	
Community Corp.	Tuk	
Hunters & Trappers C.	Tuk	Aug. 29/01
Native Band	Inuvik	
Hunters & Trappers Comm	Inuvik	Sept. 25/01
Metis Local #62	Inuvik	
Community Corp.	Inuvik	
Public/Interested Parties/Other	Contact Person	Dates Comments Received
Tuktoyaktuk Hamlet Coun.		
Aklavik Hamlet Council		
Inuvik Town Council		

Record of comments attached to screening Form?:

No, but are on file -summary follows

7.b) Summary of Public Concerns

Public consultation was conducted by the proponent, and a record of these meetings etc can be found on pages 67 to 72 of the Project Description.

Detailed description of environmental and cumulative effects identified in Tables A and B.

Cumulative Effects (Taken From Project description)

Cumulative effects refers to impacts that result from past, existing and imminent projects and activities. This broad interpretation of cumulative effects under the *Canadian Environmental Assessment Act* includes both environmental and socio-economic considerations. The socio-economic interactions are more fully discussed in Section 8.0 Traditional and Other Uses. The causal agents of cumulative effects may include several causes, multiple effects, effects of activities in more than one locale and recurring events. The bounding for the cumulative effects assessment has been adapted to address spatial and temporal overlap of the impacts of previous, current and future activities within, and in the vicinity of, the proposed program area.

As an initial assessment of the cumulative effects associated with the Chevron Ellice and Mallik seismic program, the study area was based upon the sub-regional footprint of effects of the proposed seismic program of 432 km² for the 3D Blocks. This program is scheduled to occur between December 2001 and April 2002. The significance, extent, duration, magnitude, and residual effects criteria used in this section are defined in the proponents project description Section 12.0, Proposed Mitigation and Anticipated Environmental Impacts.

Environmental or cumulative environmental effect

- Disturbance to terrain features, like pingos, permafrost, vegetation
- Erosion of banks and slopes, drainage disturbance
- Disturbance to wildlife, fish and habitat
- Water quality impairment
- Disturbance to existing cabins, trap lines, snowmobile trails, archaeological sites, etc.

Description

- Improper use of vehicles, snow cover build up, etc.
- Potential from equipment operation, improper crossing construction etc
- Equipment and vehicle activity, noise, seismic work, habitat disturbance wastes attract wildlife, detonation of charges
- Potential for spills, erosion of soils into water bodies in spring if terrain improperly protected
- From operation of equipment, camps, road construction, etc

8.b Effects of the Environment on the Project (or in table)

Largely related to weather changes or weather phenomena that could temporarily shut-down operations (too warm, too cold, thin ice, storms or blizzards).

9.a) Summary of Mitigation Measures

1). Proponent's Proposed Mitigation and Anticipated Environmental Impacts

Chevron's proposed seismic program has been designed to acquire geophysical data, while mitigating impacts to the environment and land users. Without adequate mitigation, potential environmental impacts resulting from the winter seismic program may include temporary disturbance to terrain, soils, permafrost, vegetation, terrestrial wildlife, aquatic resources and other land uses. The following Table 13 from the proponents project description identifies how potential environmental and socio-economic impacts could arise during the seismic program. They also present recommended mitigative measures to avoid the potential impacts and the significance of the residual impacts.

2. Reviewer's comments

The following Conditions should be considered as mitigation measures to help in preventing or restoring environmental damage.

9.b) Terms & Conditions

RECOMMENDED CONDITIONS ANNEXED TO AND FORMING PART OF LAND USE PERMIT NUMBER N2001B0034

31 (1) (a) - LOCATION AND AREA

The Permittee shall not conduct this land use operation on any
lands not designated in the accepted application, unless otherwise
authorized in writing by the Engineer.

PLANS

1.2 The Permittee shall not conduct any part of the land use

PRIVATE

operation within three hundred (300) metres of any privately owned land or structure, unless otherwise authorized in writing by the Engineer.

PROPERTY

1.3 (a) The Permittee shall offset vehicle travel in areas without a snow covered surface.

OFFSET VEHICLE TRAVEL

(b) The Permittee shall confine the line to a maximum width of Eight (8) metres, unless otherwise authorized in writing by

a Land Use Inspector.

		a Dana Ose Inspector.	
•	4	The Permittee shall not construct parallel lines or roads unless authorized by the Engineer.	PARALLEL ROADS
	1.7	The Permittee shall remove from Territorial Lands, all scrap material discarded machinery and parts, barrels and kegs, buildings and building material.	REMOVE WASTE MATERIAL
	1.11	The Permittee shall locate all lines, trails and rights-of-way to be constructed parallel to streams a minimum of thirty (30) metres from any stream except at crossings,unless otherwise authorized in writing by a Land Use Inspector.	PARALLELING STREAMS
	31 (1)	(b) - TIME	
	2.1	The Permittee's Field Supervisor shall contact or meet with a Land Use Inspector at the Inuvik Office of the Department of Indian Affairs and Northern Development, telephone number (867)777-3361, at least forty-eight (48) hours prior to the commencement of this land use operation.	CONTACT
	2.2	The Permittee shall advise a Land Use Inspector at least ten (10) days prior to the completion of the land use operation of (a) his plan for removal or storage of equipment and materials, and (b) when final clean-up and and restoration of the land used will be completed.	REPORTS BEFORE REMOVAL
	2.3	The Permittee shall submit an approved progress report to the Engineer every seven (7) days during this land use operation.	PROGRESS
	2.5	The Permittee shall not conduct any overland movement of equipment or vehicles before 0800 hours local time on November 15, unless otherwise authorized in writing by a Land Use Inspector.	START-UP DATE
	2.6	The Permittee shall not conduct any overland movement of equipment and vehicles after 0800 hours local time on April 15, unless otherwise authorized in writing by a Land Use Inspector.	SHUT-DOWN DATE
	2.7	The Permittee shall not conduct any overland movement of equipment and vehicles between April 15 and November 15, unless otherwise authorized by a Land Use Inspector.	SHUT-DOWN PERIOD
	2.9	The Engineer, for the purpose of this operation, designates April 15, as spring break-up.	SPRING BREAK-UP
	2.10	The Permittee shall remove all ice bridges prior to spring break-up or completion of the land use operation, unless otherwise approved in writing by a Land Use Inspector.	REMOVE ICE BRIDGE
	2.11	The Permittee shall remove all snow fills from stream crossings prior to spring break-up or completion of the land use operation, unless otherwise approved in writing by a Land Use Inspector.	REMOVE SNOW FILLS

2.15	The Permittee shall commence and foster revegetation on the land used, as directed by a Land Use Inspector, within one (1) year of the completion of the land use operation.	RE-ESTABLISH VEGETATION
2.16	The Permittee shall complete all clean-up and restoration of the lands used prior to the expiry date of this Permit.	CLEAN-UP
2.17	The Engineer reserves the right to impose closure of any area to the Permittee in periods when dangers to natural resources are severe.	CLOSURE
31 (1)	(c) - EQUIPMENT	
3.1	The Permittee shall not use any equipment except of the type, size, and number that is listed in the accepted application, unless otherwise authorized in writing by a Land Use Inspector.	ONLY APPROVED EQUIPMENT
3.2	The Permittee shall equip bulldozer blades used in this operation with "mushroom" type shoes or a similar type of device which shall be extended twenty(20) centimetres below the cutting edge of the blade.	BULLDOZER BLADES AND SHOES
3.3	The Permittee shall use a forced-air fuel-fired incinerator to incinerate all combustible garbage and debris.	INCINERATORS
31 (1)	(d) - METHODS AND TECHNIQUES	
4.1	The Permittee shall scout proposed lines and routes to select the best location for crossing streams and avoiding terrain obstacles prior to the movement of any vehicle that exerts pressure on the ground in excess of 35 kPa.	DETOURS AND CROSSINGS
4.2	The Permittee shall construct and maintain winter roads with a minimum of fifteen (15) centimetres packed clean snow at all times during this land use operation. If this cannot be done, then the Permittee shall construct <u>Ice Roads</u> in a manner approved by a Land Use Inspector.	SNOW ROADS/ ICE ROADS
4.4	The Permittee shall plug all bore holes as the land use operation progresses.	PLUG HOLES
4.5	The Permittee shall refill and restore bore hole craters as the land use operation progresses.	REFILL CRATERS
4.6	The Permittee shall remove all wire from the land as the land use operation progresses.	REMOVE WIRE
4.13	The Permittee shall not erect camps or store material on the surface ice of streams, channels, lakes or any other waterbodies.	STORAGE ON ICE
31 (1)	(e) - TYPE, LOCATION, CAPACITY AND OPERATION OF FACILITIES	
5.6	The Permittee shall mark all seismic lines at least once every one and a half (1.5) kilometres with a permanent marker indicating the Land Use Permit number or in a manner approved by a Land Use Inspector.	MARKERS/ SEISMIC LINES

5.7	The Permittee shall ensure that the land use area is kept clean and tidy at all times.	CLEAN WORK AREA
31 (1) (f) - CONTROL OR PREVENTION OF FLOODING, EROSION AND SUBSIDENCE OF LAND	
6.1	(a) The Permittee shall, where flowing water from bore holes is encountered, plug the bore hole in such a manner as to permanently prevent any further outflow of water.	PLUG ARTESIAN WELLS
	(b) The artesian occurrence shall be reported to the Engineer within forty-eight (48) hours.	
6.2	The Permittee shall remove any obstruction to natural drainage caused by any part of this land use operation.	NATURAL DRAINAGE
6.4	The Permittee shall not use any material other than water in the construction of ice bridges.	ICE BRIDGE MATERIAL
6.5	The Permittee shall not allow any ice bridge to hinder the flow of water in any stream.	ICE BRIDGE
6.15	The Permittee shall insulate the ground surface beneath all structures and facilities associated with this land use operation, with a 10 cm ice pad to prevent:	INSULATE GROUND SURFACE
	(a) Any vegetation present from being removed, and	
	(b) The ground settling and/or eroding.	
6.17	The Permittee shall not move any equipment or vehicles unless the ground surface is in a state capable of fully supporting the equipment or vehicles without rutting or gouging.	VEHICLE MOVEMENT FREEZE-UP
6.18	The Permittee shall suspend overland travel of equipment or vehicles if rutting occurs.	SUSPEND OVER-LAND TRAVEL
6.19	The permittee shall apply grass seed and fertilizer to areas Designated in writing by a Land Use inspector.	REPLANT DESIGNATED AREAS
6.20	The Permittee shall detour around all sand hills, unless otherwise authorized in writing by a Land Use Inspector.	AVOID SAND HILLS
31 (1) (g) - USE, STORAGE, HANDLING AND DISPOSAL	

31 (1) (g) - USE, STORAGE, HANDLING AND DISPOSAL OF CHEMICAL OR TOXIC MATERIAL

7.8	The Permittee shall burn all garbage and debris at least daily.	GARBAGE DISPOSAL
7.10	The Permittee shall remove all noncombustible garbage and debris from the land use area to a disposal site approved in writing by a Land Use Inspector.	REMOVE GARBAGE

7.12 The Permittee shall dispose of all combustible waste petroleum

WASTE

	products by incineration or removal.	PETROLEUM DISPOSAL
7.15	The Permittee shall report all spills immediately in accordance with instructions contained in "Spill Report" form N.W.T. 1086 (10/79). 24 hour Spill Report Line (867) 920-8130.	REPORT CHEMICAL AND PETROLEUM SPILLS
7.17	The Permittee shall dispose of all sewage and grey water in a manner approved by a Land Use Inspector.	SEWAGE DISPOSAL
31 (1) (h) - WILDLIFE AND FISHERIES HABITAT	
8.1	The Permittee shall not unnecessarily damage wildlife habitat in conducting this land use operation.	HABITAT DAMAGE
8.3	The Permittee shall not obstruct the movement of fish while conducting this land use operation.	FREE FISH MOVEMENT
8.6	The Permittee shall not destroy or damage beaver dams.	BEAVER DAMS
8.7	The Permittee shall not destroy or damage muskrat lodges.	MUSKRAT LODGES
8.8	The Permittee shall not detonate explosives within fifteen (15) metres of any body of water which is not completely frozen to the bottom, or as stated in the Department of Fisheries and Oceans setback guidelines.	EXPLOSIVES WATER
8.11	Your operation is in an area where bears may be encountered. Proper food handling and garbage disposal procedures will lessen the likelihood of bears being attracted to your operation. Information about the latest bear detection and deterrent techniques can be obtained from the Department of Resources, Wildlife and Economic Development at (867) 777-7803 or 1-800-661-0852.	BEAR/MAN CONFLICT
	- OBJECTS AND PLACES OF RECREATIONAL, SCENIC AND ECOLOGICAL VALUE	
9.3	The Permittee shall not operate any machinery or one hundred and fifty (150) metres of the base of a pingo.	PINGOS
9.4	The Permittee shall not feed wildlife.	NO FEEDING WILDLIFE
31 (1) (k) - PETROLEUM FUEL STORAGE	
11.2	The Permittee shall not place any petroleum fuel storage containers within thirty (30) metres of the normal high water mark of any stream where possible.	FUEL BY STREAM
11.3	The Permittee shall locate mobile fuel facilities on land when stationary for any period of time exceeding twelve (12) hours.	FUEL ON LAND
11.4	The Permittee shall not allow petroleum products to spread to	FUEL

	surrounding lands or into water bodies.	CONTAINMENT
11.6	The Permittee shall construct a dyke around each stationary fuel container or group of stationary fuel containers where any one container has a capacity exceeding 4 000 litres.	DYKE FUEL CONTAINERS
11.8	The volume of the dyked area shall be ten per cent (10%) greater than the capacity of the largest fuel container placed therein.	CAPACITY
11.9	The Permittee shall ensure that the dyke and the area enclosed by the dyke shall be impermeable to petroleum products at all times.	IMPERMEABLE DYKE
11.10	The Permittee shall:	CHECK FOR LEAKS
	 (a) Examine all fuel storage containers for leaks a minimum of twice every day. 	FOR LEAKS
	(b) Repair all leaks immediately.	
11.12	The Permittee shall not use bladders for storing and/or transporting petroleum products.	BLADDERS PROHIBITED
11.15	The Permittee shall seal all container outlets except the outlet currently in use.	SEAL OUTLET
11.16	The Permittee shall mark all fuel containers with the Permittee's name. This includes 45 gallon drums.	MARK CONTAINERS
31 (1) (1) - DEBRIS AND BRUSH DISPOSAL	
12.9	The Permittee shall complete total disposal of all debris and brush cleared prior to the expiry date of the Permit.	BRUSH DISPOSAL /TIMING
31 (1) (1	n) - MATTERS NOT INCONSISTENT WITH THE REGULATIONS	
13.5	The Permittee shall display a copy of this Permit in a conspicuous place in each campsite established to carry out this land use operation.	DISPLAY PERMIT
13.6	The Permittee shall keep on hand, at all times during this land use operation, a copy of the Land Use Permit.	COPY OF PERMIT
13.7	The Permittee shall provide in writing to the Engineer, at least forty-eight (48) hours prior to commencement of this land use operation, the following information:	IDENTIFY AGENT
	 (a) person, or persons, in charge of the field operation to whom notices, orders, and reports may be served; 	
	(b) alternates;	
	(c) all the indirect methods for contacting the above person(s).	
13.9	The Permittee shall, while preparing the access road, make every	TRAPS

effort to avoid covering or destroying traps or snares that may be found along these routes.

PROTECTION

13.10

The Permittee shall restore any trails used by trappers or hunters along access routes by slashing any and all trees that may fall across these paths or trails and by removing any other obstructions such as snow piles or debris that may be pushed across the trails.

TRAILS RESTORATION

13.12 The Permittee shall submit to the Engineer a contingency pla n, for chemical and petroleum spills, for use during the construction and operation of the winter road.

CONTINGENCY PLAN

RECOMMENDED MITIGATIONS SUPPLEMENTARY TO PERMIT CONDITIONS

Fuel Storage

Fuel sloops located within 30 m of a water body should be parked within an impermeable dyke. This can be
constructed of snow/ice material and will reduce the likelihood of a spill penetrating the ground and migrating into the
water. Should equipment need access inside the dyked area for refueling, the opening should be on the uphill side.

 Refueling operations occurring outside an area described above should include a haz-mat/ drip tray under the tank receptacle.

Equipment

 All equipment parked or may be parked for four (4) hours or more, should have a haz-mat/drip tray under it, or be sufficiently diapered (leaky equipment should be repaired immediately).

 Low impact wheeled vehicles should be limited to properly constructed snow/ice roads. There should be no use of these vehicles on seismic lines.

Operational

No burning of plastics

Waste oil should be recycled

Seismic lines crossing river channels thirty (30) meters or greater in width should be stopped short of the channel
leaving a buffer (where possible) between the end of the line and the channels. Equipment crossing channels should
be at designated intervals of one (1) km or more and their approaches should be doglegged.

Sleigh camps discharging gray water to the ground should do so into a snow/ice berm which can be broken up and

spread on land when the camp moves next.

On those upland areas, ie. Parsons Lake, Storm Hills, Caribou Hills, where dynamite is used as the seismic source, charges should be 15 kg or less at 18 meters depth to prevent excessive cratering. Other configurations of hole depth/charge size may be acceptable as well.

9.c Reviewers comments, mitigation measures regarding the water licence:

-need for a proper contingency plan prior to licence issuance, equipping of vehicles with spill containment and clean up materials, and use of clean snow etc on stream crossings.

-need for improved cumulative effects assessment generally in the north, and the need for a spill plan. The requirements of the Fisheries Act must be met, and DOE recommends that all fuel storage be equipped with secondary containment, and otherwise proper storage of contaminants; solid wastes should be transported to an approved facility with adequate arrangements in place, all seismic shot holes should be plugged and restored to prevent intermingling of surface and groundwater; and to protect migratory birds, seismic lines should be restricted to a maximum width of 3 to 5 metres.

-DFO listed a number of mitigation measures: prefer they avoid dynamite use, but if do use, adhere to conditions provided by Letter of Advice; any testing of seismic technology proposed must be authorized by DFO; avoid any interference with traditional harvesting activities; access roads should follow existing routes where possible to minimize vegetation and soil disturbance; avoid mechanized clearing within 100 metres of any water body; use mushroom shoes or boots on bladed vehicles, no cutting of crossing approaches unless authorized, eg use snow ramps; use ice or snow to build temporary crossings, and notch or remove them to ensure spring flow, reclamation work should include bank stabilization and revegetation as required, prior to spring thaw; all waste facilities, drill cuttings etc sumps, should be 100 metres from water bodies, and bermed if possible; use of biodegradable drill additives is encouraged, and cuttings must not enter water; remove any debris from water surfaces before breakup, have a contingency plan, and report all spills

- a map should be provided showing density of operations in the area for review of cumulative impacts; erosion measures should be in place, eg should ground thaw while still working in the area, sludges should only be disposed of to an approved

area, and Inuvik must provide permission to use their facilities, to ensure that they can handle all the additional wastes from ch operations; solid wastes should be incinerated in an approved incinerator and elaborate on disposal of excess wastes, ls, containers etc. elaborate on when aquatic studies and seismic monitoring will be done; and a spill plan is needed. -want to see more than one environmental and wildlife monitor on site due to project area size, and any shot holes must be covered over immediately to minimize terrain disturbance.

- concerns with spills/pollution due to numerous vehicles through the ice last year..have proper plans in place; be aware of the private reindeer herd on the island; concern with potential work extension beyond April 15th, due to return of migrating birds; avoid stream blockages at crossings, and ensure that local wildlife monitors are on site .

- welcome new technologies designed to keep explosives in place at desired depths; concern with use of snow for winter roads, numerous drilling programs etc, re drawdown effects on local water bodies; potential for spills, need for good waste management etc; noted subsistence fishery on Husky Lakes, and encroachment of oil and gas activity..need monitoring.

10.	Significance
	aking into account the above mitigation measures, are any of the adverse environmental effects significant? Yes
	No If yes, identify which one(s) and proceed to 11; if no, proceed to #12
11.	Likelihood of Occurrence
Of the	identified adverse significant environmental effects in #10 are any likely to occur?
Yes	X_No (If yes, which one(s)?)
12.	CEAA Determination /Recommendation
x 	Section 20 (1)(a) - Project may proceed as it is not likely to cause significant adverse environmental effects. Section 20 (1)(b) - Project may not proceed as it is likely to cause significant adverse environmental effects that cannot be justified.
_	Section 20 (1)(c)(i) - Project must be referred to the Minister of Environment as it is uncertain whether the project is likely to cause significant adverse environmental effects.
_	Section 20 (1)(c)(ii) - Project must be referred to the Minister of Environment as it is likely to cause significant adverse environmental effects.
_	Section 20 (1)(c)(iii) - Project must be referred to the Minister of Environment as public concerns warrant the reference.
13.	Consultation on Screening Report
	Public consultation on screening report deemed necessary? Yesx_ No Deadline for comments on screening report n/a

14. Follow-up Program

(Attach Comments to screening file.)

Public Comments Received on Screening Report?

Chevron would monitor the effects of dynamite detonations below water bodies, impacts to vegetation from equipment travel and impacts to wildlife. Where effects are noted, Chevron would alter program parameters such as charge burial or size and addition of oxygen to such affected water bodies. RWED would identify known impacts to wildlife. Soil and vegetation impacts would be remediated. Various government agencies would be provided with monitoring results. No follow-up program is required by DIAND or NWT Water Board ;regular licence and land use inspections should suffice to identify any problems needing attention...or as otherwise determined eg wildlife monitors.

15. INAC Land Administration Authorization

16.

17.

	Oct 30, 2001
Prepared By: (screener) R Walker, RMO	Date
	Oct 30, 2001
Approved By: R. Cockney, District Manager	Date
Water Board Authorization	
Prepared By (Screener): G. Cook,	Nov. 19,200
Approved By:	Date 13/0/
National Energy Board	
Prepared By (Screener): J. Korec, EAO	Date
Approved By: T. M. Baker, Chief Conservation Officer	Date

-1772

Chevron Canada Resources Winter 2001/2002 Ellice and Mallik Seismic Program October 29, 2001

15. INAC Land Administration Authori

	Oct 30, 2001		
Prepared By: (screener) R Walker, RMO	Date		
	Oct 30, 2001		
Approved By:	Date		
R. Cockney, District Manager	Date		
Water Board Authorization			
Prepared By (Screener): G. Cook,	Date		
Approved By:	Date		
National Energy Board			
1			
Ul-Know	21 November 2001		
CEAA Screening Report Reviewed By:	Date		
J. Korec, EAO			
That I			
V Whitelen	21 November 2001		
CEAA Screening Report Approved By:	Date		

Appendices

pendix A: Subject Descriptors

Choose (one or more) from this list and insert as a "Subject Descriptor"

agriculture
buildings
communications
defence
energy
forestry
industry
inland waters
mining
oceans
oil and gas
parks
transportation

Appendix B: Geographic Place Name

see list provided in Guide

APPENDIX C: Screening Checklist and Cumulative Effects Checklist (Tables A, B and Cumulative Effects)

APPENDIX D: CEAA EA Coordination

Table A. Identification of Project Components and Environmental Effects*

Identify all components of the project under screening and their potential adverse environmental effects]

(**Centex all the items appropriate to this project) X_access road X_construction (winter ice roads) X_abandomment/removal modification e.g., widening, straightening X_blasting building burying channelling cut and fill cutting of trees or removal of vegetation dams and impoundments constructionabandomment/removalmodificationdamadomment/removalmodificationdabandomment/removalmodificationdabandomment/removalmodificationdabandomment/removalmodificationdabandomment/removalmodificationdrainage alteration drainage alteration X_ drilling other than geoscientificcoological surveysexcavation; X_ explosive storage X_ garbage disposal of hazardous wasteX_ explosives, _X_ exp	Project Components	x_accidents or malfunctions (Check if there is a		
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Project Effects check all the items appropriate to this project)

Biophysical Environment

- 1. deposit into surface water
- deposit into ground water
- 3. X change in surface water flow
- 4. change in ground water flow
- 5. change in water temperature
- X change in drainage pattern (temporary)
- 7. X change in air quality
- 8.__ change in air flow
- 9. micro-climate change
- 10. X ice fog
- 11. X change in ambient noise levels
- 12. change in slope stability
- 13. __ change in soil structure
- 14. X alteration of permafrost regime
- 15. X destabilization/erosion
- 16.__ soil compaction
- 17. loss of access to non-renewable resource
- 18.__ depletion of non-renewable resource
- 19. removal of rare/endangered plant species
- 20. introduction of species
- 21. toxin/heavy metal accumulation
- 22. removal of rare/endangered wildlife species
- 23.__ change in wildlife health
- 24. X impact to large mammals
- 25. X impact to small mammals
- 26. X impact to fish
- 27. X impact to birds
- 28.__ impact to other wildlife
- impact in a calving, nesting or spawning area
- 30.__ removal of wildlife buffer zone
- 31. X change in wildlife habitat/ecosystem
- 32._other, explain_

Directly-related Socio-economic and Cultural Environment

- 33. X impact to trappers (minimal)
- 34.__ impact to hunting
- 35. __ impact to outfitters
- 36. recreational or back country use
- 37. X impact to fishing (minimal)
- 38. __ impact to First Nation traditional use
- 39. X impact to community
- 40.__impact to industry
- 41. impact to community health
- 42. X change in work force economics
- 43. X change in housing or infrastructure
- 44. X change in regional transportation
- 45X__.other, explain Reindeer herding in
- 46. X impact to traditional use area
- 47. __ impact to historical site or cultural landmark
- 48. X impact to local aesthetics
- 49. X impact to archaeological or historical site
- 50.X other, explain Permafrost research

sites____

Table B. Identification of Other Resource Uses And Their Environmental Effects

Identify relevant past, current and future (pending applications) physical works and activities and their potential adverse vironmental effects. Other Resource Uses Effects from other Resource Uses √ check all the items appropriate to this project) (✓ check all the items appropriate to the scope of this project) Biophysical Environment agriculture 1. X deposit into surface water 2. deposit into ground water forestry 3. X change in surface water flow commercial 4.__ change in ground water flow domestic 5. change in water temperature 6. X change in drainage pattern X fishing X change in air quality 8.__ change in air flow X hunting/subsistence 9.__micro-climate change __ urbanization 10. X ice fog __ commercial / residential (cottages) 11. X change in ambient noise levels 12.__change in slope stability built structures 13. __change in soil structure __ infrastructure 14._alteration of permafrost regime __ mining 15 Destabilization / erosion exploration soil compaction loss of access to non-renewable resource open pits 18.__depletion of non-renewable resource underground 19.__removal of rare/endangered plant species introduction of species _quarries 21.__ toxin/heavy metal accumulation _transportation/communications 22.__ removal of rare/endangered wildlife species ___ roads / trails _X_ channels / canal 23.__change in wildlife health __ telephone lines, satellite dishes, cables 24. X impact to large mammals beacons 25. X impact to small mammals solid waste disposal 26. X impact to fish 27._X_ impact to birds 28. impact to other wildlife energy project __ hydro 29. impact in a calving, nesting or spawning area __ pipeline 30. removal of wildlife buffer zone 31. X change in wildlife habitat/ecosystem __ transmission line 32. __ other, explain_ X other water licenses, permits, leases Directly-related Socio-economic and Cultural Environment 33.__ impact to trappers X land claims __ selected 34.__impact to hunting __ withdrawn 35.__ impact to outfitters __ special management recreational or back country use __heritage sites 37._X_ impact to fishing 38. __impact to First Nation traditional use 39. _X impact to community cultural sites 40. impact to industry other private lands held under tenure 41. X impact to community health recreational 42. X change in work force or community economics trapping _ mineral processing 43. X change in housing or infrastructure 44. X change in regional transportation airport recreation 45. other, explain 46. impact to traditional use area other heritage sites 47. impact to historical site or cultural landmark X other, explain: reindeer herding 48. X impact to local aesthetics 49. impact to archaeological or historical site



Cumulative Environmental Effects (Based on a comparison of effects identified in Box A and Box B)

Matching Number(s)	Description of cumulative environmental effects
3 & 6	Change in surface water flow - caused by the buildup of ice and overland access routes may cause surface water flow to change course. This will be temporary as it will only affect the area for this upcoming spring 2002.
7	Change in air quality caused by the running of deisel and gas engines for the duration of the projects. Emissions from generators, trucks, Nodwells and other heavy equipment may cause air quality problems in the region
10 & 11	Ice Fog and Change in ambient noise levels - During cold weather engine emissions will hang in the air and cause ice fog, multiply this by several similar projects and the problem becomes worse. Noise levels will increase due to the number of vehicles and equipment being used in the wilderness area.
14 & 15	Alteration of Permafrost Regime and destabilization / erosion could occur if permit conditions and proposed operatin procedures were not followed. Again this would be multiplied by the numerous programs
24 & 25 & 26 & 27	Impact to Large and Small mammals, Impact to Fish and Birds - this is certain to occur with development in a wilderness area. This effect will probably displace mammals, fish and birds for a temporary period of time. Althoug once the wildlife becomes familiar with the presence of people they will start returning to the area.
31	Change in wildlife habitat / ecosystem - this will occur on each program area due to the minimal disturbance of the vegetation. This will cause new and perhaps different vegetation growth in the future thus changing the habitat.

APPENDIX D: CEAA EA Coordination

CEAA Section 5 Notification

Pursuant to section 5 of the CEAA Federal Coordination Regulations, potential responsible authorities (RAs) and federal authorities (FA were requested on [date] to review the proposed project and, pursuant to subsection 6(1) of the CEAA Federal Coordination Regulation inform the lead RA by [date] whether they are a responsible authority or could provide specialist advice.

The responses are provided in the following table:

Role of Federal Departments/Agencies

Department/Agency (District)	Responsible Authority	Specialist Department	No Involvemen
Canadian Coast Guard (Sarnia)			X
Environment Canada (Yellowknife)	X	Х	
Fisheries and Oceans (Yellowknife)		X	
Health Canada (Edmonton)		X	
Indian and Northern Affairs (Inuvik)	Lead R A		
National Energy Board (Calgary)	X		
Natural Resources Canada (Ottawa)		X	
NWT Water Board (Yellowknife)	Х		

Federal Approvals [delete/add any that do not/do apply]

Environment Canada:

Migratory Birds Convention Act Migratory Bird Sanctuary Permit

INAC:

Territorials Lands Act Land Use Permit

National Energy Board:

Canada Oil and Gas Operations Act 5(1)(b) Authorization

NWT Water Board:

NWT Waters Act Class B Water Licence

Section 8 Requirements of the CEAA Federal Coordination Regulations

With respect to section 8 of the FCR, the RAs prepared a joint determination of the scope of the project, the factors to be considered, an the scope of those factors as follows:

- A. Scope of the Project (change description as applicable)
- 2. Undertaking in relation to the physical work or physical activity triggering the CEAA.

The RAs consider the principal project to be the proposed geophysical operations related to hydrocarbon exploration in the Mackenzie Delta area, Northwest Territories. To support this activity, camps are required.

2. Other associated physical works or physical activities that must be undertaken to carry out the project.

The RAs note that for the project to proceed to completion, the physical works and activities listed in **Table A** above would need to be undertaken.

3. Other undertakings in relation to the physical works and activities identified in items (1) and (2) above.

No further hydrocarbon exploration-related activities have been identified in relation to the physical works and activities for the proposed Project. Any additional hydrocarbon exploration activities would be subject to future examination under the NWT Waters Act, Canada Oil and Gas Operations Act and/or Territorial Lands Act and, consequently, under the CEAA.

B. Factors to be Assessed

The factors considered within the scope of an environmental assessment are those set out in subsection 16(1) of the CEAA.

C. pe of the Factors to be Assessed

The following spatial and temporal boundaries, as defined in the Inuvialuit Environmental and Geotechnical Inc. Project Descriptio for the Project, are suggested.

1. Spatial Boundaries

Local: Impacts would be limited to the seismic rights-of-way and camps;

Subregional: Impacts might extend beyond the limits of the rights-of-way and camps, but would be limited to within 1 to 50

of the rights-of-way and camps; and

Regional: Impacts might extend beyond 50 km from the rights-of-way and camps to the entire region.

2. Temporal Boundaries

Immediate: Impact duration would be limited to less than two days;

Short-term: Impact duration would be longer than two days but less than one year;
Medium-term: Impact duration would be more than one year but less than ten years; and

Long-term: Impact duration would extend ten years or longer.

Section 9 Requirements of the CEAA Coordination Regulations

The RAs agreed to a CEAA determination date of October 30, 2001 for taking a course of action under subsection 20(1). Each RA for this joint screening made its own independent CEAA determination.

