NORTHWEST TERRITORIES WATER BOARD

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ONSHORE OIL AND GAS EXPLORATION DRILLING QUESTIONNAIRE

FOR

WATER LICENCE APPLICATIONS

Prepared by:
Department of Indian Affairs and Northern Development
Water Resources Division
August 1999
Version 5.07

Introduction

The purpose of this questionnaire is to solicit supplemental information from an applicant to support their application for a water licence (or renewal). It is anticipated that the completion of this questionnaire will reduce delays arising from the Northwest Territories Water Board having to solicit additional information after an application has already been submitted. This information will also be useful during the environmental assessment and screening of your application, which must be undertaken prior to development and approval of a water licence.

The applicant should complete the questionnaire to the best of his/her ability, recognizing that some questions may not be relevant to the project under consideration. For questions that do not relate to his/her operation, the applicant is requested to indicate "N/A" (Not Applicable).

If any questions arise while completing the questionnaire, the applicant may wish to contact the Northwest Territories Water Board at (867) 669-2772. If your question is that of a technical nature please contact the Regulatory Approvals Section of the Water Resources Division, Department of Indian Affairs and Northern Development (INAC), at (867) 669-2651.

Chairman, Northwest Territories Water Board

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If space is insufficient for any of the responses on this questionnaire, use the back of the sheet or attachments.

List attachments in Appendix 1.

Print or type your responses.

SECTION 1:

PRELIMINARY SITE ASSESSMENT

DATE:	August 22, 2001					
1.1	APPLICANT					
	COMPANY NAME: Chevron Canada Resources					
	ADDRESS: 500 – 5 th Avenue S.W.					
	Calgary, Alberta					
	T2P OL7					
	PROPERTY NAME/EXPLORATION LIC. #: EL 393, EL 394, EL 404					
	CLOSEST COMMUNITY: Tuktoyaktuk					
	LATITUDE/LONGITUDE OF WELL CENTRE (Degrees, minutes, seconds): Latitude Longitude					
1.2	PRIMARY COMPANY CONTACT:					
	NAME: Delona K. Butcher (key contact for general inquiries & correspondence)					
	TITLE: Land Representative, Mackenzie Delta Project Team					
	CONTACT NUMBER: (403) 234-5393 dkbu@chevron.com					
	ALTERNATE CONTACT NUMBERS: (403) 815-9684 – cell phone					
1.3	FIELD CONTACT:					
	NAME (If known): Kevin Williams (key contact for operational matters)					
	TITLE (If known): Geophysicist (Seismic Operations)					
	CONTACT NUMBER: (403) 234-5403 Alternate – Don McDowell (403) 234-5305					
1.4	INDICATE THE STATUS OF THIS APPLICATION:					
	NEW APPLICATION X RENEWAL					
	IF RENEWAL, INCLUDE LICENCE NUMBER:					

1.5	SITE HISTORY				
	INDICATE IF THIS SITE CONTAINS ANY KNOWN:				
	FORMER WELL SITES				
	WASTE DUMPS				
	FUEL AND CHEMICAL STORAGE AREAS				
	SUMP AREAS				
	WASTE WATER DISCHARGE LOCATIONS				
	DESCRIBE SITES AND REFERENCE THEM ON				
	Not applicable.				
1.6	ATTACH MAPS DRAWN TO SCALE SHOWING LOCATIONS OF EXISITNG AND PROPOSED: Please see attached Project Description.				
	CAMP FACILITIES,				
	WELL SITE(S),				
	SUMPS,				
	WATER SOURCES,				
	FUEL AND CHEMICAL STORAGE FACILITIES,				
	DRILLING MUD STORAGE FACILITIES,				
	DRAINAGE CONTROLS,				
	TRANSPORATION ROUTES (SEASONAL AND ALL WEATHER)				
	ELEVATION CONTOURS,				
	LOCATIONS OF WATERBODIES				
	DRAINAGE PATTERNS FOR WELL AND CAMP SITES.				
	* Clearly identify crossings over water courses greater than 5 mat ordinary high water mark.				
1.7	DESCRIBE THE PROPOSED OR CURRENT METHOD OF FRESHWATER WITHDRAWL, THE TYPE AND OPERATING CAPACITY OF THE PUMPS USED AND THE INTAKE SCREEN SIZE.				
	Water for ice access, building snow ramps, and possibly a supplementary camp source, will				
	be obtained from channels of the Mackenzie River. Water withdrawal rates are not				
	expected to exceed 100 m³/day. intake hoses will be screened with 2.4 mm wire				
	mesh. Please see Project Description for additional information.				

Less than 1% of flow to be withdrawn.					
2 2 3 G A 37 (A W) 17 2	- NORMAN COMPANIES				
	SEDAP ARTIAS				
INDICATE IF PERMAFROST IS EXPECTED TO BE ENCOUNTERED UND					
CAMP FACILITIES	X				
WELL SITE	N/A				
ACCESS ROUTES	_ X_				
SUMPS	N/A				
OTHER	N/A				
INDICATE ANY POTENTIAL FOR EN OR LOST CIRCULATION WITHIN TH					
Not applicable.	2.10stps(0.30stAna)				
DIS ISTASONAL AND ALL WILKTHER	TRANSPORATION ROU				
	ELEVATION CONTOUR				
	URFICIAL GEOLOGIC AND HYD				

SECTION 2:

WATER USE AND WASTE DISPOSAL

	Source	Use	Average Volume (m3/day
1.	Mackenzie River	Ice access	Portion of 100 m ³ /day
2.	Mackenzie River	Building snow ramps	Portion of 100 m ³ /day
3.	Mackenzie River	Possible supplementary camp source	Portion of 100 m ³ /day
4.			
			TOTAL: 100 m ³ /day
FL	UIDS? YES	NO	X
	11.5		<u>A</u>
IF	YES, INDICATE SUBS	TANCES:	
IN	DICATE THE TOTAL	ESTIMATED VOLUME OF DI	RILLING WASTES
			RILLING WASTES
	DICATE THE TOTAL t applicable	ESTIMATED VOLUME OF DI	RILLING WASTES
No	t applicable	CUBIC METRES	
No	t applicable DICATE METHODS F		
No	t applicable DICATE METHODS F	CUBIC METRES OR DISPOSAL OF DRILLING	WASTES.
No	DICATE METHODS F	CUBIC METRES OR DISPOSAL OF DRILLING IOLE (REQUIRES NEB APPROV	WASTES.
No	DICATE METHODS F	CUBIC METRES OR DISPOSAL OF DRILLING	WASTES.
No	DICATE METHODS F SUMP DOWN H ON-SITE	CUBIC METRES OR DISPOSAL OF DRILLING IOLE (REQUIRES NEB APPROV	WASTES. /AL)
IN	DICATE METHODS F SUMP DOWN H ON-SITE	CUBIC METRES OR DISPOSAL OF DRILLING IOLE (REQUIRES NEB APPROV TREATMENT (PROVIDE PLAN E (GIVE LOCATION ANDMETR	WASTES. /AL) N) HOD OF DISPOSAL)
IN	DICATE METHODS FOR SUMP DOWN HOTEL OFF-SITE A SUMP IS BEING US	CUBIC METRES OR DISPOSAL OF DRILLING OLE (REQUIRES NEB APPROVI TREATMENT (PROVIDE PLAN E (GIVE LOCATION ANDMETH	WASTES. /AL) N) HOD OF DISPOSAL)
IN	DICATE METHODS F SUMP DOWN H ON-SITE OFF-SITE A SUMP IS BEING US SCALE DRAWINGS	CUBIC METRES OR DISPOSAL OF DRILLING OLE (REQUIRES NEB APPROV TREATMENT (PROVIDE PLAN E (GIVE LOCATION ANDMETH ED, ATTACH THE FOLLOWI AND DESIGN OF SUMPS,	WASTES. /AL) N) HOD OF DISPOSAL)
IN	DICATE METHODS FOR SUMP DOWN HOUSE OFF-SITE A SUMP IS BEING US SCALE DRAWINGS CAPACITY IN CUBI	CUBIC METRES OR DISPOSAL OF DRILLING OLE (REQUIRES NEB APPROVE TREATMENT (PROVIDE PLANE) E (GIVE LOCATION ANDMETH ED, ATTACH THE FOLLOWI AND DESIGN OF SUMPS, C METRES,	WASTES. /AL) N) HOD OF DISPOSAL)
IN	DICATE METHODS F SUMP DOWN H ON-SITE OFF-SITE A SUMP IS BEING US SCALE DRAWINGS CAPACITY IN CUBI BERM EROSION PRO	CUBIC METRES OR DISPOSAL OF DRILLING OLE (REQUIRES NEB APPROVE) TREATMENT (PROVIDE PLANE) E (GIVE LOCATION ANDMETHE ED, ATTACH THE FOLLOWI AND DESIGN OF SUMPS, C METRES, OTECTION,	WASTES. /AL) N) HOD OF DISPOSAL)
IN	DICATE METHODS FOR SUMP DOWN HOUSE OFF-SITE A SUMP IS BEING US SCALE DRAWINGS CAPACITY IN CUBIC BERM EROSION PROSOIL PERMEABILIT	CUBIC METRES OR DISPOSAL OF DRILLING OLE (REQUIRES NEB APPROVE TREATMENT (PROVIDE PLANE) E (GIVE LOCATION ANDMETH ED, ATTACH THE FOLLOWI AND DESIGN OF SUMPS, C METRES, OTECTION, Y AND TYPE	WASTES. /AL) N) HOD OF DISPOSAL)
IN	DICATE METHODS F SUMP DOWN H ON-SITE OFF-SITE A SUMP IS BEING US SCALE DRAWINGS CAPACITY IN CUBI BERM EROSION PROSOIL PERMEABILIT RECYCLING/RECLA	CUBIC METRES OR DISPOSAL OF DRILLING IOLE (REQUIRES NEB APPROVE TREATMENT (PROVIDE PLANE) E (GIVE LOCATION ANDMETH ED, ATTACH THE FOLLOWI AND DESIGN OF SUMPS, C METRES, OTECTION, Y AND TYPE AIMING WATERS,	WASTES. /AL) N) HOD OF DISPOSAL)
IN	DICATE METHODS FOR SUMP DOWN HOUSE OFF-SITE A SUMP IS BEING US SCALE DRAWINGS CAPACITY IN CUBIC BERM EROSION PROSOIL PERMEABILIT	CUBIC METRES OR DISPOSAL OF DRILLING OLE (REQUIRES NEB APPROVE TREATMENT (PROVIDE PLANE) E (GIVE LOCATION ANDMETH ED, ATTACH THE FOLLOWI AND DESIGN OF SUMPS, C METRES, OTECTION, Y AND TYPE AIMING WATERS, GE CONTROLS,	WASTES. /AL) N) HOD OF DISPOSAL)

2.6	WILL A CAMP BE PR YES	OVIDED?	NO	TEAM	
2.7	IF YES, THEN INDICATED IN INDICATED IN THE INDICATED IN T				D MAXIMUM
	CAPACITY		110	PERSONS	Moken
	MAXIMUM A	CCOMMODATE	D110	PERSONS	Z Mackeni 3. Mackeni

SECTION 3:

CONTINGENCY, ABANDONMENT AND RESTORATION PLANNING

3.1 ATTACH THE PROPOSED OR EXISTING CONTINGENCY PLAN WHICH DESCRIBES COURSE OF ACTION, MITIGATIVE MEASURES AND EQUIPMENT AVAILABLE FOR USE IN THE EVENT OF SYSTEM FAILURES AND SPILLS OF HAZARDOUS MATERIALS (IN COMPLIANCE WITH NWT WATER BOARD GUIDELINES FOR CONTINGENCY PLANNING, 1987).

Please see attached Project Description.

ATTACH AN INVENTORY OF HAZARDOUS MATERIALS ON THE PROPERTY (AS 3.2 DEFINED UNDER TRANSPORTATION OF DANGEROUS GOOD REGULATIONS).

Fuel and explosives will be moved, stored and used in accordance with the Transportation of Dangerous Goods Act and Regulations.

Fuel amounts (approximate):

Diesel:

28,009 litres

Gasoline:

11,355 litres

Jet B: determined by helicopter use

Explosive amount to be determined, and will be stored in an approved powder magazine.

ATTACH AN OUTLINE OF PLANNED ABANDONMENT AND RESTORATION 3.3 PROCEDURES.

Please see attached Project Description.

SECTION 4:

ENVIRONMENTAL ASSESSMENT AND SCREENING

Your application and other project details, such as this questionnaire, will be sent out for review by local aboriginal and public groups as well as territorial and federal government agencies. Their comments regarding the significance of project impacts are considered before a decision is made to allow the project to proceed. Because formal assessment and screening of water licences was only initiated in about 1989, applicants will find that this process may be required even if the project has been built and in operation for several years. However, if your project has been previously screened a further assessment may not be required, or a more limited process may be used. This will depend on individual circumstances, including the stage of the project. Some projects may need a higher level of review or submission of more information before being screened.

4.1	HAS THIS	PPOIEC	T EVE	D HADED	ONE	N INITI	AT ENVID	ONMENTAL
4.1	HAS THIS PROJECT EVER UNDERGONE AN INITIAL ENVIRONMENTAL ASSESSMENT, INCLUDING PREVIOUS OWNERS?							
		YES	\boxtimes		NO			
	IF YES, BY	WHOM /	WHEN:		cal Inc., A	August 200	vironmental é l – please see	
4.2	HAS BASELINE DATA BEEN COLLECTED FOR THE MAIN WATER BODIES IN THE AREA?							
		YES	\boxtimes		NO			
	IF YES, ATT	ACH DA	TA.					
4.3	HAS BASEL TO THE BIO AFFECTED	PHYSIC	AL COM	IPONENTS	OF THE	ENVIRON	NMENT POT	
		YES	\boxtimes		NO			
	IF YES, ATT	ACH DA	TA.					
4.4	ATTACH A ENVIRONM Please see atta	ENTAL N	MONITO	RING PRO			TING	
4.5	HAS A COM	IMUNITY	CONSU	LTATION	PROGRA	AM BEEN	INITIATED	?
		YES	\boxtimes		NO			
	IF YES, PRO	OVIDE DE	ETAILS (OF THE PRO	OGRAM			