



CANADA

Exploratory  
Development ☐Delineation ☒  
Service ☐NATIONAL ENERGY BOARD  
Exploration and Production

DEC 04 2003

# AUTHORITY TO DRILL A WELL

## APPLICATION

This application is submitted with Section 82 of the Canada Oil and Gas Drilling Regulations. When approved under Section 83 of the Regulations. It is the requisite authority for the commencement of drilling operations.

**Well Name in Full:** Chevron et al Liard 3K-29 surface  
**Operator:** Chevron Canada Resources Ltd.  
**Contractor:** Akita Drilling  
**Drilling Rig or Unit:** 58 UE or 48UE  
**Location • Unit:** K      **Section:** 29  
**Coordinates:** Lat 60°28'42.4N  
**Area:** Fort Liard, Northwest Territories  
**Elevation-RT/KB:** 416.34 m Rig 58  
**Anticipated Spud Date:** January 10 2003  
**Anticipated Total Depth:** 3730 mMD (2640 mTVD)

**Drilling Program No:** N/A  
**Permit or Lease No:** SDL99  
**Estimated Well Cost:** \$9.4 million  
**Grid Area:** 60°30', 123°30'  
**Long:** 123°35'04.3W  
**Field/Pool:** Liard  
**(ASL) Seafloor:** N/A  
**Estimated Days on Location:** 70  
**Target Horizon:** Nahanni

### EVALUATION PROGRAM

**Ten meter sample intervals:** None

**Five meter sample intervals:** No samples will be caught and submitted from surface to intermediate casing depth.  
Intermediate casing point to TD: Two sets of 5m interval vial samples.

**Canned sample intervals:** None

**Conventional cores:** N/A

**Logs and Tests:** A waiver for open hole logs will be applied for from surface casing to intermediate casing depth.  
Main hole(intermediate casing to TD): run #1 CNL-LDT-AIT-FMS

### CASING AND CEMENTING PROGRAM

O.D. (mm)	Weight (kg/m)	Grade	Depth		Cementing Program
			(mMD)	(mTVD)	
508	Conductor	9.53 WT	20	20	Cement to surface
244.5	59.53	K-55	780	743	Cement to surface
177.8	38.69	L-80 (Hydril SLX)	2952	2592	Cement to surface

**B O.P. Equipment:** See attached detailed drilling plan

**Other Information:** See pre-submission for surface casing extension.

Signed: 

Dan Kamieniecki

Title: Well Construction Engineer

Date: Nov 22 2002

Company: Chevron Canada Resources

An approved copy is to be posted at wellsite

APPROVAL

Signed: 

Chief Conservation Officer

Date: Dec 12/03

File: 9211-C004-3-2

WID 1999

UWI 303K296030123300

Canada