



# APPROVAL TO ALTER CONDITION OF A WELL

This application is to be submitted to the Chief Conservation Officer at least 45 days before commencement of operations.

Well Name:	Cnrl Et Al North Liard 3p-66b		
Operator:	Canadian Natural Resources Limited	Well ID:	1922
Operating License No.:	1109	Depth:	3338.0m
Contractor:	Grizzly Well Servicing Group	Drilling Rig or Unit:	
Area:	Fort Liard	Grid:	60-40-123-30
Coordinates: (NAD 27)	Surface Lat.:	60°35'55.6"	Long.: 123°41'25.3"
	Bottom Hole Lat:	60°30'57.7"	Long.: 123°41'27.9"
Date ADW issued:	28/Mar/2003	Date of last Operation:	12/Jan/2004
Elevation-KB/RT:	456.0m	GL / Seafloor:	449.4m
Approx. Spud Date:	01/Feb/2006	Est. Days on Location:	5

## TYPE OF OPERATION

Well Abandonment

## SUMMARY OF PROPOSED OPERATIONS

### ABANDONMENT PROCEDURE:

1. Perform a bubble test on the conductive and surface casing vents. If positive, shut in and monitor for any build up for 24hrs. If build up occurs attempt to obtain a flow rate on the conductive and/or surface casing vents. Ensure all results are included in the daily reports.

NOTE: If applicable check wellhead seals to ensure they are not leaking.

2. Hold a pre-safety meeting with all lease personnel. Ensure proper safety measures are adhered to as per CNRL and OH & S guidelines. Move on services. Do a thorough inspection and have a safety meeting on CNRL's policies and procedures.

3. Move in and rig up service rig.

4. Record shut in casing and tubing pressures. Bleed off. Well should bleed off.

5. Prepare equipment for 114.3mm tubing (BOP, elevators, etc.). Remove wellhead and install BOP's and test as per regulation.

6. Release from packer. POOH with tubing and bottom hole assembly and stand in derrick See attached down hole assembly and wellbore schematic.

7. Rig in wire liners. RIH and set a 177.8mm bridge plug at 2645mKB. Pressure test bridge plug to 7mPa. Dump 8m cement.

8. RIH and set a 244.5mm bridge plug at 2590mKB. Pressure test bridge plug to 7mPa. Dump 8m cement.

9. Add 10m cement plug at surface.

10. Have back hoe dig a minimum of 2.5m below ground level around casing and cut off 2.0m casing below ground level. Once casing is cut weld a steel plate minimum 5mm thick between 508.0mm, 339.7mm and 244.5mm casing. Weld a joint of tubing for the sign post. Install sign post with well name and coordinates. After weld complete the cap and have the backhoe fill the hole around the casing.

12. Wellsite supervisor to oversee welder caps, plugs or effectively seals both ends of the pipeline with end caps and removes the pipeline risers. This will complete the abandonment of the pipeline as per CSA Standard Z662-03 regulations (Clauses 10.14.1 and 10.14.2 (d) (page 198, April 1999)). The pipeline was suspended in January 2004. Release welder and backhoe.

11. Contact truck outfit to pickup wellhead, casing stub and tubulars to be hauled away.

12. Contact reclamation consultant to reclaim the lease.

Signed:		Title:	Abandonment Coordinator
Name:	Suzanne Eaton	Operator:	Canadian Natural Resources Limited
Date:	12/6/5	Phone:	(403)517-6833

## NEB USE ONLY

An approved copy of this notice is to be posted at each drillsite. This operation is authorized under Section 5.(1)(b) of the *Canada Oil and Gas Operations Act* (O-7) and is subject to the terms and conditions attached to this authorization.

### Well Status Before Operation:

- Suspended ☐  
Completed ☐  
Abandoned ☐

Date: 26 Jan 06  
File: 924-  
WID: 1922  
UWI: 303P666040123302

Signed:   
Chief Conservation Officer