



## Rehabilitation Prescription Oil or Gas Development Sites

### Reference Information:

**Legal Description:** a-23-J, 93-P-2

**WA #** 7317

**Company Name:** Canadian Hunter (Burlington Resources Ltd.)

**Location:** Noel

**Surveyors:** Korey Green & Lynda Neufeld

**Date:** July 24, 2003

**Stake Holder(s):** Identify and notify any stake holders if treatments are to be carried out

**OGC Status:** COR   X   **Date:** June.22, 1992 **NON-COR**           

### General Site Description

	Yes	No	Comments
Industrial Debris		X	
Coarse Woody Debris	X		Scattered
Noxious Weeds		X	
Campsite	X		Very similar conditions to lease
Sump Site		X	No Physical Evidence
All Weather Access	X		ATV
Soil Erosion Potential		X	
Wildlife Use Indicators	X		Moderate - Few tracks/ Browsing
Range Use (Level)		X	
Potential For Slope Failure		X	
Within 100m of Stream or Water Intake		X	Map Verified
Uncovered/Exposed Mineral or Subsoil Present	X		Exposed subsoil in Northeast corner – See Site Sketch
Indications of Contamination/ Sterilization		X	
Other		X	

## PRE-DISTURBANCE/OFF-SITE CHARACTERISTICS:

### Off-Site Overview:

**STRATUM NO.** 1

**Elevation:** 1045 m

**Aspect:** South

**Slope %:** 7%

**BGC Zone/Sub-zone/Variant/Site Series:** BW / BS / mw1 / 04

### **Representative Vegetation**

**Photo#: 10**

Layer	Species	% C	Ht (m)	Species	% C	Ht (m)	Species	%C	Ht (m)	Vigor/Comment
Trees	Sb	40	15	Pl	5	.025	-	-	-	Good
Shrubs	Alder	5	1	-	-	-	-	-	-	Good
Herbs	Kinikini	5	.1	-	-	-	-	-	-	Good
Mosses	Step Moss	100	.1	-	-	-	-	-	-	Good



### **Soil Horizons**

**Pit No.: 1**

**Pit Depth: 45 cm**

**Photo #: 11**

Horizon	Depth (cm)	Texture	Admixing (%)	Coarse Frag %	Coarse Frag Size	Penetrability (Kpa)	Water Content (%)
Ae	0-6 cm	SiL	Native	<5	2-5mm	980	2.5
B	6-45+	SiL-SiCL	Native	<5	2-10mm	3640	7.3

**Un-favourable Substrates Type and Depth (cm):** N/A

**Rooting Depth:** 30 cm

**Humus Form:** Mor    **Depths:** L - 2 cm + F - 3 cm + H - 1 cm = 6 cm total

**Soil Moisture Regime:** 3-4 (Submesic – Mesic)

**Soil Nutrient Regime:** Poor - Medium

**Surface Materials % Cover:**

	< 5cm diam.	5 – 10 cm diam.	> 10 cm diam.	Total %
<b>Woody Debris</b>	10%	5%	-	15%
<b>Rock</b>	2%	-	-	2%





## POST-DISTURBANCE/ON-SITE CHARACTERISTICS

### Lease Sketch:



**Comments:** ( ie - location and status of salvaged topsoil (piled/spread/ad-mixed, location, spreading feasibility, volume) and strata identification)

- Camp has less admixing and soil is slightly less compacted than that of the lease
- Scattered naturals of Cottonwood, Spruce, Pine, Alder and Willow present on lease
- Small patch of exposed soil in the Northeast corner of lease (See Above Site Sketch)
- Other Pictures: #8 – COR Sign



## POST DISTURBANCE

### On-Site Overview:

#### STRATUM NO. 1

**Elevation:** 1045 m

**Aspect:** Southeast to Southwest

**Slope %:** 1 to 3%

#### Representative Existing Vegetation

**Photo# 9**

Layer	Species	% C	Ht (m)	Species	% C	Ht (m)	Species	% C	Ht (m)	Vigor/Comment
Trees	Pl	5	.8	Ac	10	1	Sx	2	.4	Med – Good
Shrubs	Willow	5	1	-	-	-	-	-	-	Good
Herbs	Clover	15	.2	Grass	60	.2	-	-	-	Med – Poor
Weeds	Yarrow	<5	.25	-	-	-	-	-	-	Medium

**Viable Seed Source:** Yes - Sx (Primarily Sb), Pl, and Ac are all in the immediate area



#### Soils Assessment

##### Soil Pit No. 1

**Pit Depth: 25 cm**

**Photo# 12**

Horizon	Depth (cm)	Texture	Admixing (%)	Coarse Frag %	Coarse Frag Size	Penetrability (Kpa)	Water Content (%)
0-10	0-10	SiCL	30	10	2-30mm	-	-
10-20	10-20	SiCL	30	10	2-30mm	-	-
20+	20+	SiCL	30	10	20-20mm	-	-



**Un-favourable Substrates Type and Depth (cm):** 25 cm – Coarse Fragments increasing – inhibiting soil pit depth

**Rooting Depth:** 10 cm

**Humus Form:** Sod = 1 cm

**Soil Moisture Regime:** 4 (Mesic)

**Soil Nutrient Regime:** Poor – Medium

**Surface Materials % Cover:**

	< 5cm diam.	5 – 10 cm diam.	> 10 cm diam.	Total %
Woody Debris	5-10%	-	-	5-10%
Rock	<5%	-	-	<5%



## Suitable End Land Use Objectives:

Timber Production \_\_\_\_\_X\_\_\_\_\_

Wildlife Habitat \_\_\_\_\_X\_\_\_\_\_

Forage Production \_\_\_\_\_

Traditional Uses \_\_\_\_\_X\_\_\_\_\_

## Comments:

- Plantability of Lease and Campsite is Good
- Strata I (Lease) is upland with good drainage
- Access is Fair to Good with the first ½ mile appearing to have been planted back to Pine
- May be well suited to integrated treatment – collaboration of timber, traditional, and wildlife uses
- Low Competition factor for trees planted – Vegetation occurring onsite at the present does not offer a high competitive value to seedlings.
- The rocky nature (high coarse fragments in soil and at surface) of the site may limit the ability to raw plant
- Timber value surrounding the lease is medium at best; therefore, the highest and best end land use of the site may be contained to Wildlife and Traditional Use values

# **Rehabilitation Prescription: To Be Completed Once Test Trials Have Been Completed & Analyzed**

**Objectives:**

**Method:**

**Recontouring:**

**Decompaction:**

**Restoration of Surface Soils:**

**Control of Erosion and Nutrient restoration:**

**Timber and other Vegetative Cover:**

**Follow-up treatments:**

Field work done by: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Registered Professional Forester Signature and Seal

I certify that the work described herein fulfills the standards acceptable of a Registered Professional Forester and that although I did not personally supervise all phases of the work, I have ensured proper measurement, evaluation and prescription procedures have been employed.

Name: \_\_\_\_\_

RPF # \_\_\_\_\_

Date: \_\_\_\_\_

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