Working Plan

Mechanical Planting Trial

7300 Road

B. Wesleyson
J. Maxwell
1. **Objective**

To determine the field performance of spruce seedlings planted by the C & H planter and by manual hand planting. This will be done by comparing height, caliper and survival data of the two treatments. An analysis of variance will be performed on the variables of interest to determine any significant differences between the treatments.

2. **Location**

7300 Road, Key No. GL10168, Fort St. John Forest District, Prince George Region.

3. **Trial Stock**

<table>
<thead>
<tr>
<th>Species</th>
<th>Stock Type</th>
<th>Seedlot</th>
<th>Seedzone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sx</td>
<td>PSB 313</td>
<td>4345</td>
<td>HH</td>
</tr>
</tbody>
</table>

4. **Plot Design**

This plot consisted of 2 treatments x 3 replications x 25 seedlings per replication totalling 150 seedlings. See diagram below:

```
 C&H    H    C&H    H    C&H    H
25 trees
```

C&H - Mechanical Planter
H - Manual Planting
5. **Schedule of Establishment/Assessment**

<table>
<thead>
<tr>
<th>Measurements</th>
<th>Estab/Plt</th>
<th>Fall 87</th>
<th>Fall 88</th>
<th>Fall 89</th>
<th>Fall 90</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>Aug/87X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Caliper</td>
<td>X</td>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Increment</td>
<td>X</td>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Survival</td>
<td>X</td>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Photography</td>
<td></td>
<td></td>
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<td>X</td>
<td>X</td>
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<tr>
<td>Progress Reports</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

6. **Site Description**

- **Opening Number:** 94AllC38
- **Tenure:** VCL
- **BCG:** EWBSc/2
- **Moisture Regime:** 4
- **Nutrient Regime:** B
- **Veg. Competition:** M
- **LPH:** 15 cm
- **Slash % Cover & Ht:** 5% / 30 cm
- **Disturbance:** 074 Mech Plt. 87
- **Site Prep:** Madge Roto Clear
- **Aspect & Slope%:** flat
- **Timber Type:** B, A
- **Elevation:** 800 m
- **Site Class:** M
- go North from Ft. St. John
- go past Shepherds Inn
- turn right onto 2300 Rd just by coffee shop on left
- turn left at very start of 2300 - go for approx. 15km

Survey type ____________________________________________ by ____________________________ Date ____________________________

Inventory check by ______________________________________ Date ____________________________

History map update by ____________________________________ Date ____________________________

C.A.M. update completed date ____________________________ by ____________________________
1. Objectives

To determine the field performance of spruce seedlings planted by the Cell planter and by hand planting control.

2. Location

73 Mile Rd.

3. Trial Stock

Seedlot No.  4345  Stock Type  PSB 313

4. Plot Design

The trial area was homogenous and was characterized by even terrain, 0.5% slope, heavy vegetation of grass and was windrowed. Seventy-five replications of each of the two planting methods were completed as follows:

<table>
<thead>
<tr>
<th>Cell 1</th>
<th>H</th>
<th>Cell 2</th>
<th>H</th>
<th>Cell 1</th>
<th>H</th>
<th>Cell 11</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 trees</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Cell 11 planter
H = Hard planted
Each replication consists of 25 trees for a total of 150 trees.

5. Dates of Treatment & Assessment

- Planting & Tagging: Aug 5 - Aug 8, 1987
- First Assessment: Oct 87
- Second Assessment: Spring 88