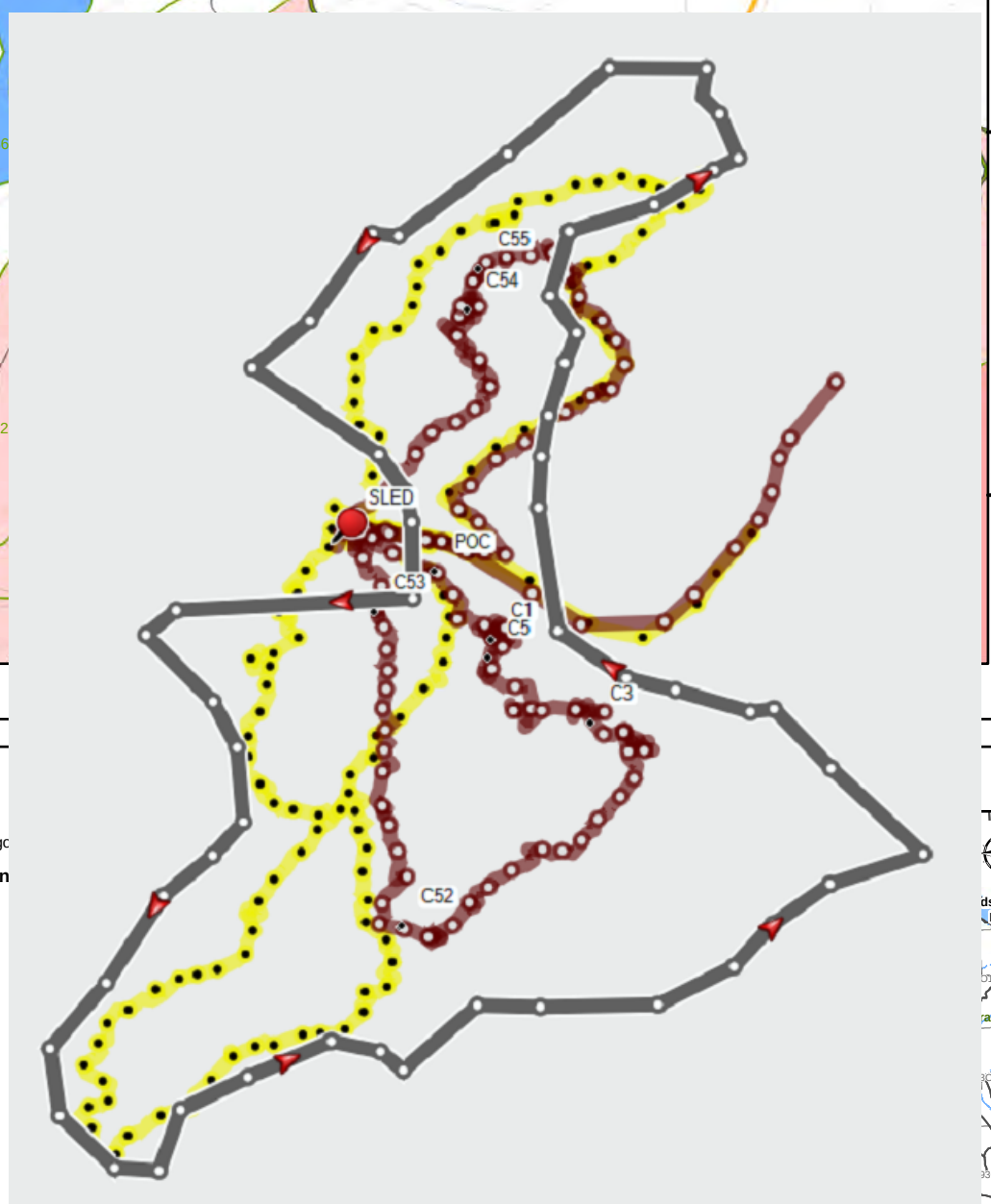
Polygon Name: 2015-PAR-032

LIGHT SCATTERED ATTACK- 1C1, 1C3

PRG_MP_24

W0697 CP, EE 30/06/2011 ACTIVE



Ministry of Forests, Lands and Natural Resource Operations

Spruce Bark Beetle Field Map

Polygon Name: 2015-PAR-032

Landscape Unit/BMU:	Parsnip
Region:	Omineca
District:	Mackenzie
Mapsheet:	093O11
Hectares:	21.5
Scale:	1:10,000
When plotted on 11x17	
Coordinate System:	NAD 1983 UTM Zone 10N
Datum:	North American 1983
Date Drawn:	03/12/2015
Drawn By:	msnively

Map Features

- Susceptible Spruce Bark Beetle Polygc
- 2013 SB Hazard Rating (20% incremen
- Hazard Classes
  - Low/Med (21-40)
  - Med (41-60)
  - High (61-80)
  - Very High (81-100)
  - Cutting Permit
  - RESULTS Opening
  - VRI Polygon
  - Beetle Management Unit
  - Natural Resource District
  - Road Permit Active
  - Road Permit Pending
  - Km Markers
  - Streams
  - Lakes and Rivers
  - Wetlands

0 0.1 0.2 0.4 Kilometers

Disclaimer

The accuracy and completeness of the information on this map is not guaranteed.

SENECA ENTERPRISES LTD.
PO BOX 1902, PRINCE GEORGE, BC, V2L 5E3
Phone: (250) 561-0890, Fax: (250) 564-3275

SPRUCE BARK BEETLE REPORT FH16DMK016,017

POLYGON: **2015-PAR-032** HECTARES: 21.50

WALKTHROUGH DISTANCE: 2200

ESTIMATED INFFESTED PIXELS FROM WALKTHROUGH (Code 1-4) 1 **4.5%**

SUMMARY OF CURRENT INFESTATION

Found one infested pixel with 1-C1 and 1-C3 attack. Polygon has all stages of attack and has good access with the attack showing close to the road. Small Polygon and need to work with 2015-PAR-033. Steeper slopes to the sout. Whilem attack is isolated, there are code 5's scattered throughout polygon and there may be more single trees.

LIGHT SCATTERED ATTACK

ACCESS

Truck parked on Parsnip road, Sled in 5km to polygon un unplowed road. Road splits polygon through the middle

POLYGON FEATURES (Topography, Terrain, Timber Types, Age)

Road through the middle of polygon, Steep topography in the south, Heavy understory, difficult walking, About 50/50 Balsam and Spruce.

SIZE, BOUNDARY and PATTERN OF INFESTATION

Walkthrough found 1 code 1 tree and 1 code three tree within same pixel. Scattered Code 5 attack also noted. Attacked Code 1 had minimal larvae when hacked into. Light scattered attack.

INCIDENCE AND SEVERITY OF ATTACK

Light scattered attack with one infested pixel having 1 Code 1 and 1 Code 3 attack.

RISK OF BEETLE SPREAD

Suurounded by cutblocks and with light attack minimal risk of spread. All stages of attack represented in polygon, 2015-PAR-033 just further down the access road.

ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES

Good access splits polygon on unplowed road. Steeper to the south but attack is close to road.

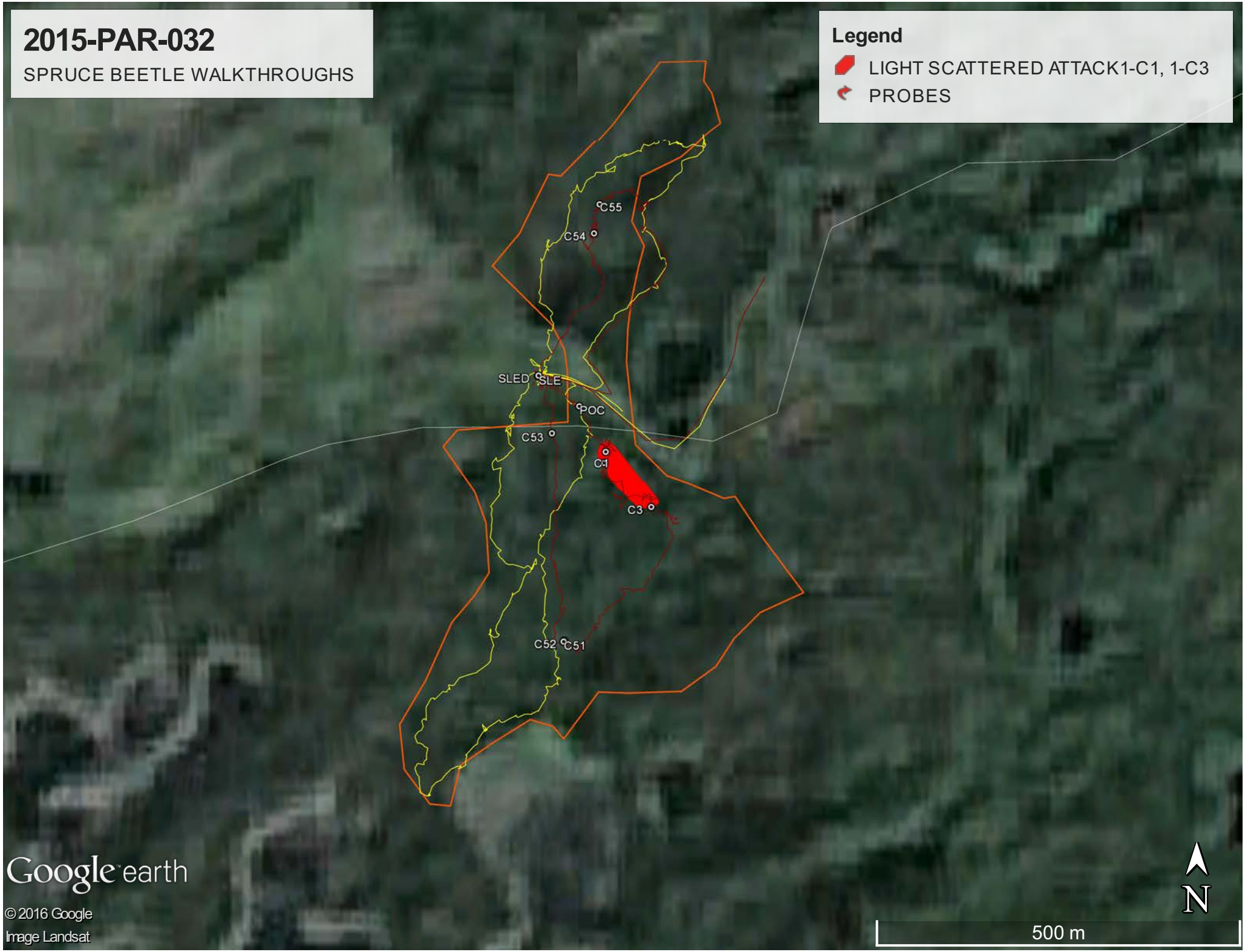
RECOMMENDATIONS

OPTION 1 **MONITOR**

As only 1 code 1 tree and 1 Code 3 found and scattered in a mixed stand by Balsam, best to shcedule another walkthrough 2016/2017. There are many code 5 attacked trees and the Code 1 infested tree found is on the first year of a 2 year cycle.

OPTION 2 **TRAP TREES**

As close enough to a road (Unplowed), would be effective to setup a couple trap trees and group wth 2015-PAR-033. As PAR033 has trees on first year of 2 year cycle, and this polygon found 1 Code 3, maybe best to wait until late 2017 to lay trap tree


2015-PAR-032
SPRUCE BEETLE WALKTHROUGHS
Legend
LIGHT SCATTERED ATTACK1-C1, 1-C3
PROBES
C55
C54
SLED
SLE
POC
C53
C4
C3
C52
C51
Google earth
© 2016 Google
Image Landsat
N
500 m

Summary

2015-PAR-032		21.50	METERS WALKED	2200	% TRAVERSED	10.2%
PIXELS COVERED BY WALKTHROUGH	22	INFESTED PIXELS	1	**ESTIMATED % OF BLOCK INFESTED (From Walk through)**		**4.5%**

TABLE 5- Spruce Beetle Infestation Summary Sheet

OF NOTE- Results taken from a 100m Probe Line established at 1 per 50 hectares to represent

DIAMETER CLASS	SURFACE AREA FACTOR	NUMBER OF HEALTHY HOSTS	BARK BEETLE CODE BY YEAR OF ATTACK						OTHER TREE SPECIES
			2015		2014		2013		
			1	2	3	4	5	6	
17.5-25.0	3.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0
25.1-30.0	5.3	0	0.0	0.0	0.0	0.0	0.0	0.0	21.2
30.1-35.0	7.1	0	0.0	0.0	0.0	0.0	0.0	0.0	63.9
35.1-40.0	9.4	0	0.0	0.0	0.0	0.0	0.0	0.0	9.4
40.1-45.0	11.6	0	0.0	0.0	0.0	0.0	0.0	0.0	0
45.1-50.0	13.8	0	0.0	0.0	0.0	0.0	0.0	0.0	0
50.1-55.0	16.2	0	0.0	0.0	0.0	0.0	0.0	0.0	0
55.1-60.0	18.7	0	0.0	0.0	0.0	0.0	0.0	0.0	0
60.1 +	25.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0
TOTALS	0.0	0	0.0	0	0.0	0.0	0.0	0	94.5

TABLE 4- Spruce Beetle Attack Density and Larval Density Rating

MEAN NO. OF ENTRANCE HOLES PER 225 cm2 PHLOEM SAMPLE		MEAN NO. OF LIVING LARVAE PER 225 cm2 PHLOEM SAMPLE	
	< 1 LOW Attack Density		< 4.9 LOW Mean Larval Density
	1.0- 1.9 MOD Attack Density		5.0 - 14.9 MOD Mean Larval Density
	2.0 - 3.9 HIGH Attack Density		15-24.9 HIGH Mean Larval Density
0.00	< 3.9 SEVERE Attack Density	**0.00**	>24.9 EXTREME Mean Larval Density

TABLE 2- Spruce Beetle Management Options after Walkthrough

% 2015 ATTACK	0.0%	0.0	SANITATION AND SALVAGE HARVEST PRIORITY RATING		
% 2014 ATTACK	0.0%	##	LIGHT	0-599	LEAVE (Monitor, Trap Trees, Baits, etc)
% 2013 ATTACK	0.0%	##	MODERATE	600-999	PROBE (To Obtain Further Info)
% HOST IN STAND	0.0%	##	HEAVY	1000+	RECOMMEND CRUISING/ LOGGING

0.0

NO PROBE LINE TAKEN, PAT HAD A LOOK AT THE ONE CODE 1, FOUND ONLY A FEW LARVAE ON THE ONE TREE WHEN HACKED INTO, 1ST YEAR OF A 2 YEAR CYCLE

SUMMARY OF ALL CARDS FS1111

NUMBER OF CARDS 0

ACCESS - Truck parked on Parsnip road, Sled in 5km to polygon un unplowed road. Road splits polygon through the middle

POLYGON FEATURES - Road through the middle of polygon, Steep topography in the south, Heavy understory, difficult walking, About 50/50 Balsam and Spruce.

DIAMETER CLASS	SURFACE AREA FACTOR	NUMBER OF HEALTHY HOSTS	BARK BEETLE CODE BY YEAR OF ATTACK						O+AW6:BI8THER TREE SPECIES	
			2015		2014		2013			
			1	2	3	4	5	6	BL	AT
17.5-25.0	3.3	0	0	0	0	0	0	0	0	0
25.1-30.0	5.3	0	0	0	0	0	0	0	4	0
30.1-35.0	7.1	0	0	0	0	0	0	0	9	0
35.1-40.0	9.4	0	0	0	0	0	0	0	1	0
40.1-45.0	11.6	0	0	0	0	0	0	0	0	0
45.1-50.0	13.8	0	0	0	0	0	0	0	0	0
50.1-55.0	16.2	0	0	0	0	0	0	0	0	0
55.1-60.0	18.7	0	0	0	0	0	0	0	0	0
60.1 +	25.3	0	0	0	0	0	0	0	0	0
TOTALS		0	0	0	0	0	0	0	14	0

BARK SAMPLES 15 cm x 15 cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE ADULTS	NO. CALLOW	FRESH (GREEN) BLOWDOWN Attacked Yr	Yr ____	Unattacked
0	0	0	0	0	0	0	0	0

SIZE, BOUNDARY AND PATTERN OF THE INFESTATION

Walkthrough found 1 code 1 tree and 1 code three tree within same pixel. Scattered Code 5 attack also noted. Attacked Code 1 had minimal larvae when hacked into. Light scattered attack.

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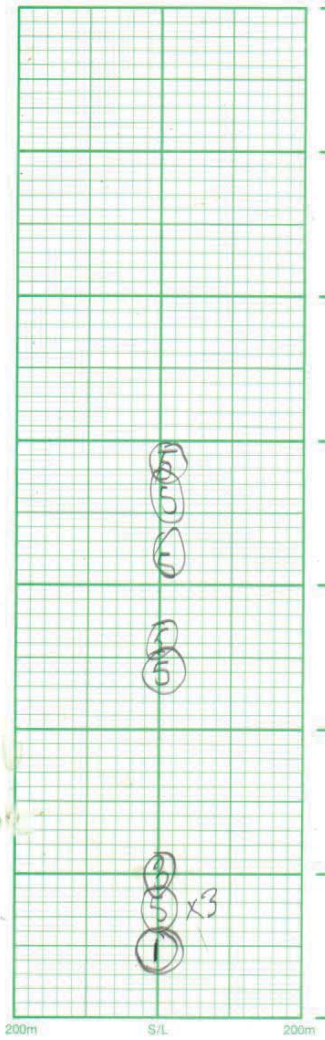
ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES

Good access splits polygon on unplowed road. Steeper to the south but attack is close to road.

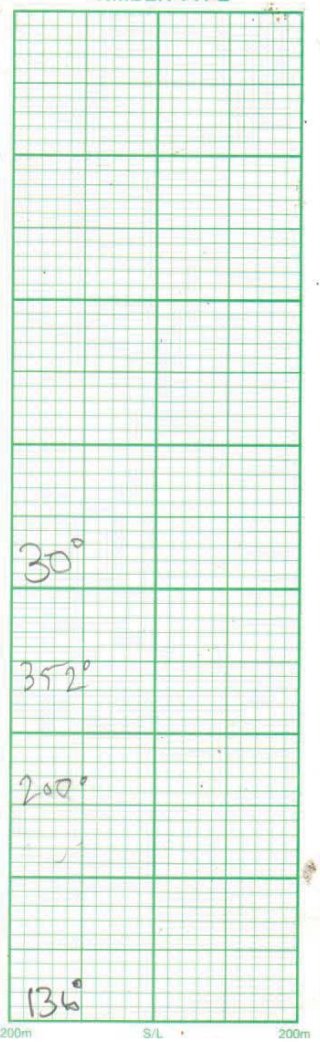
PAR 32

STRIP No. _____

TOPOGRAPHY



TIMBER TYPE



STRIP NO.: _____ DIRECTION: _____

START STRIP: _____

JOB NO.: _____ DATE: JAN 30

CREW: PATRICK PELTS

REMARKS: _____

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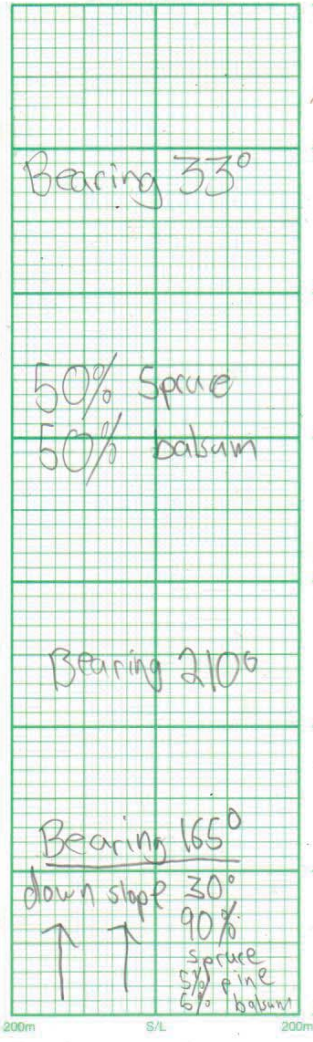
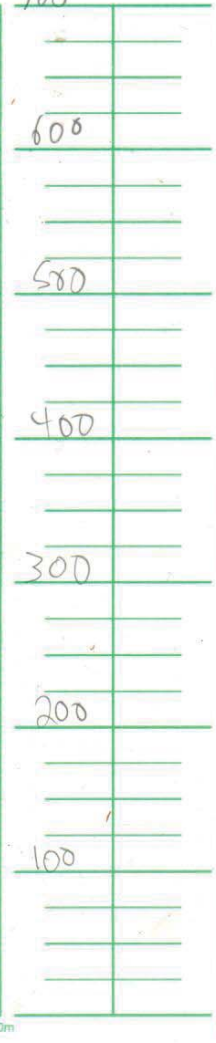
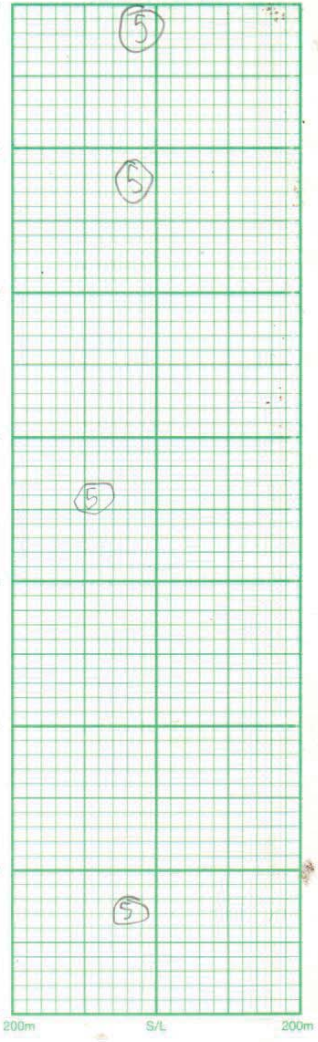
STRIP No. 1

TOPOGRAPHY





TIMBER TYPE



STRIP NO.: 1 DIRECTION: 214°

START STRIP: 0-700

JOB NO.: PAR-032 DATE: Jan 30th/16

CREW: Blake B

REMARKS: _____

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TOPOGRAPHY

STRIP No. 2

TIMBER TYPE

1400

1300

Bearing 24°

1200

flat
Open
50% balsam
50% Spruce

1100

B

1000

S

900

Bearing 002°

800

Bearing 50°

200m S/L 200m 200m S/L 200m

STRIP NO.: 2 DIREGTION: 50°

START STRIP: 800 - 1400

JOB NO.: PAR-032 DATE: Jan 30th / 16

CREW: Blake B

REMARKS:

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BRITISH COLUMBIA

COMPASS AND TRAVERSE SHEET

TOPOGRAPHY

TIMBER TYPE

2000

1900

1800

1700

1

END

1600

1500

200m S/L 200m 200m S/L 200m

C.P. No. 3 BLOCK

DIRECTION 24° START OF STRIP 1500 - 2000

JOB NO. PAR-032 DATE Jan 30th/16

CREW Blake B

REMARKS

FS 375 HFP 92/1 7530881021 (100/Blde)