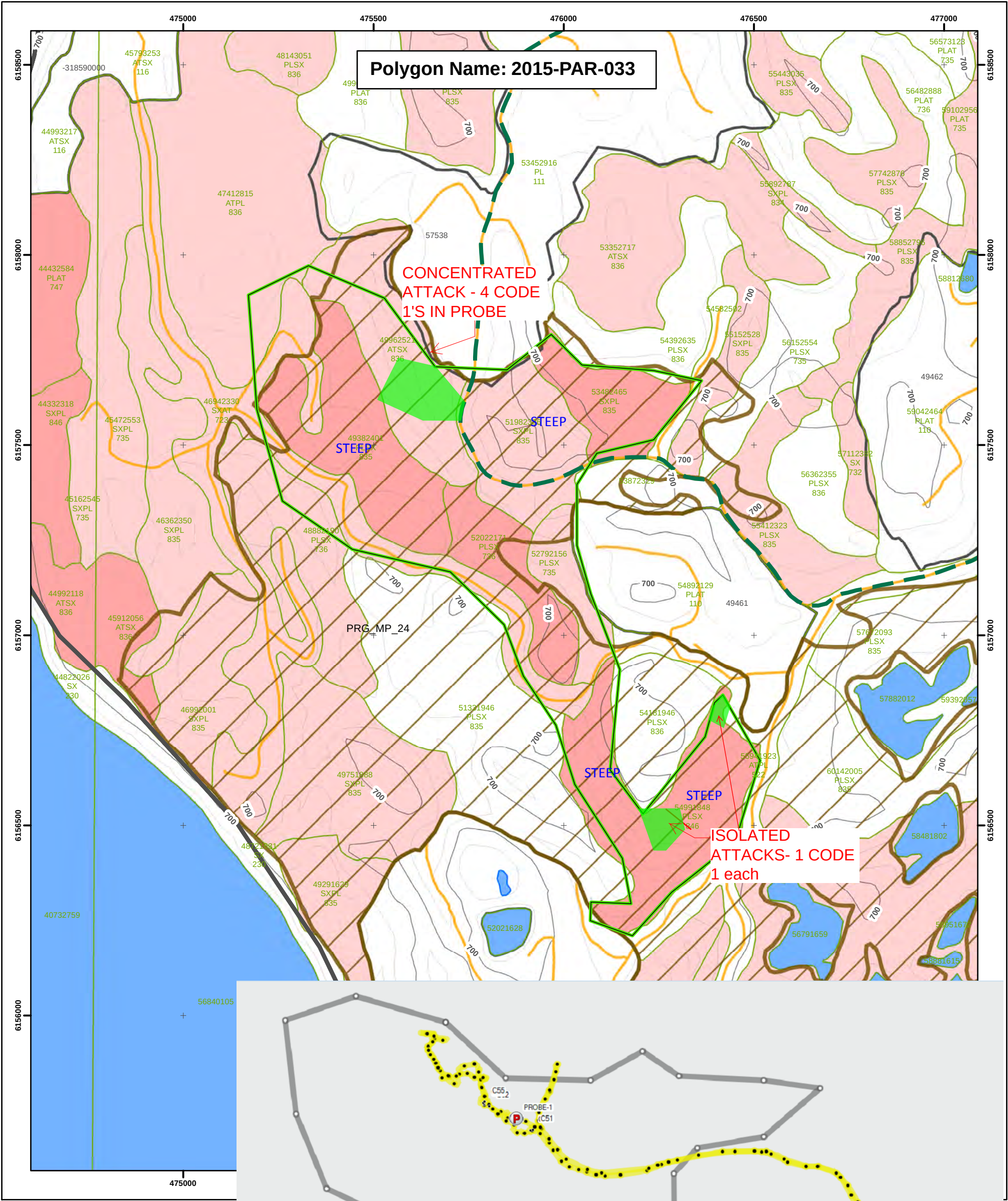




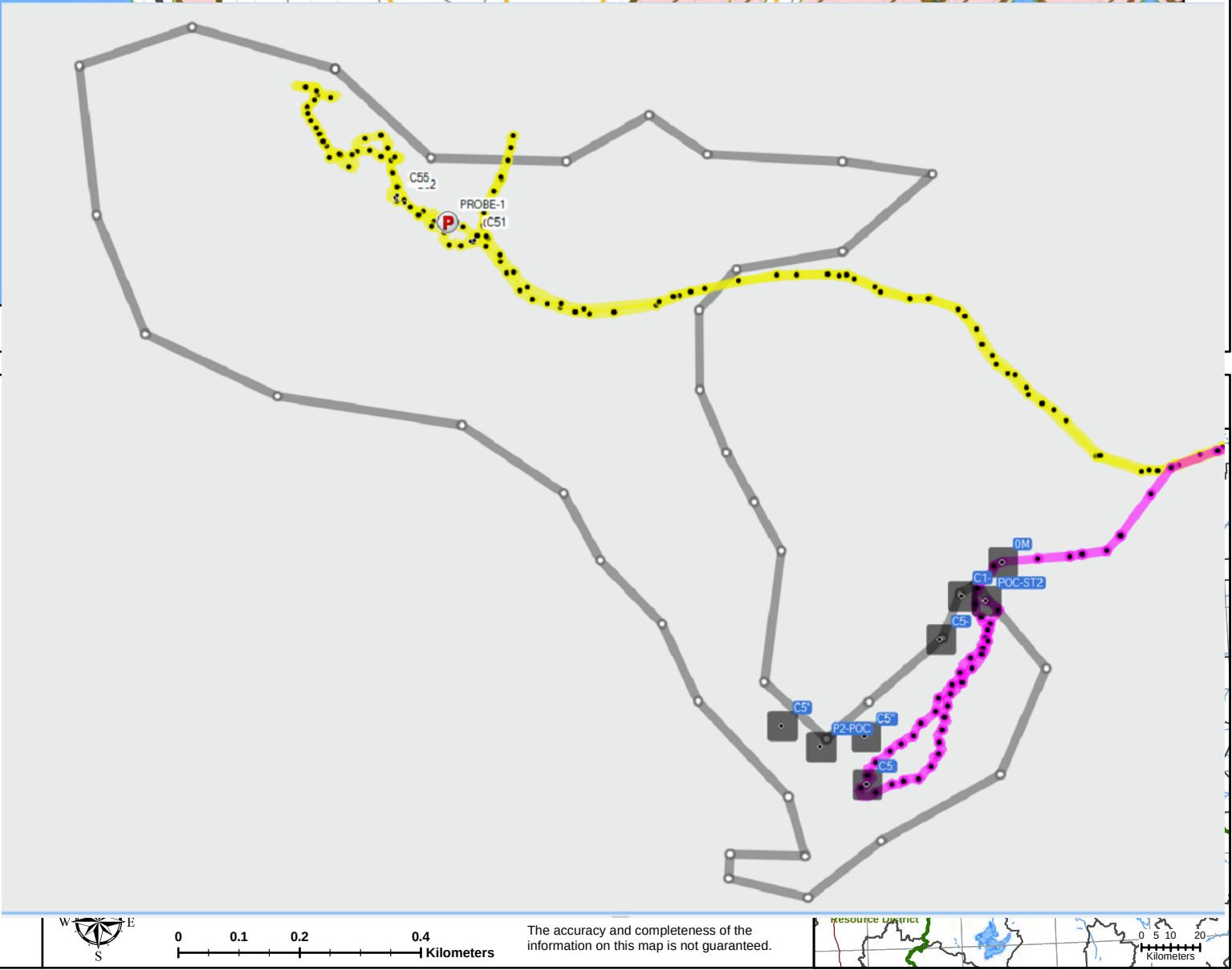


Ministry of
Forests, Lands and
Natural Resource Operations

Spruce Bark Beetle Field Map

Polygon Name: 2015-PAR-033

Landscape	Parsnip
Unit/BMU:	Omineca
Region:	Mackenzie
District:	
Mapsheet:	093O11
Hectares:	80.85
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



**SENECA ENTERPRISES LTD.**

PO BOX 1902, PRINCE GEORGE, BC, V2L 5E3

Phone: (250) 561-0890, Fax: (250) 564-3275

WALKTHROUGH DISTANCE: **3700****SPRUCE BARK BEETLE REPORT
FH16DMK016,017**POLYGON: **2015-PAR-033**

HECTARES:

80.85ESTIMATED INFESTED PIXELS FROM
WALKTHROUGH (Code 1-4)**2 5.4%****SUMMARY OF CURRENT INFESTATION**

Found two infested pixels with 5-C1 attack on the 1st year of a 2 year cycle . Polygon has good access with the attack showing close to the road. The sanitation rating is moderate but represented by the only infested trees found . Steeper slopes to the south. While 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 on 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 and north, Heavy understory, difficult walking, About 50/50 Balsam and Spruce with lots of standing dead pine. Ravines throughout, 0-40% slopes.

SIZE, BOUNDARY and PATTERN OF INFESTATION

Walkthrough found 5 code 1 trees total and covered by the 2 probes.. Scattered Code 5 attack also noted. Attacked Code 1 trees show low attack and low larval density. All on year 1 of a 2 year cycle, all had larvae

INCIDENCE AND SEVERITY OF ATTACK

Light isolated attack with 2 pixels infested from walkthrough. Lightly scattered code 5's also noticed in polygon.

RISK OF BEETLE SPREAD

Polygon mostly Surrounded by cutblocks and with light attack minimal risk of spread. All recent attack on 1st year of a 2 year cycle, polygon further up the road from 2015-PAR-032

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 2 pixels with 5- Code 1's found and scattered in a mixed stand by Balsam, best to schedule another walkthrough 2016/2017. There are many code 5 attacked trees and the Code 1 infested trees 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 with 2015-PAR-032 which is fairly similar attack pattern.

2015-PAR-033

SPRUCE BEETLE WALKTHROUGHS

Legend

- SCATTERED ATTACK5-C1's
- PROBES

C54 C55
C52 C51
PROBE-1

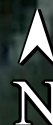
OM
POC-ST2
C5-

C5'
C5"
C5:
P2-POC

Google earth

© 2016 Google
Image Landsat

1 km





PROBE 2

BEETLE PROBE CARD

LOCATION		0476200		ELEVATION	LATITUDE		PAGE		OF	
PAR 033		6156514		733						
BEARING	STRIP LINE NO	STRIP WIDTH	DISTANCE	BEETLE SPECIES						
320	2	10	100	☒ SB ☐ MPB ☐ DFB						
DIAMETER CLASS	SURFACE AREA FACTOR	NUMBER OF HEALTHY HOSTS	BARK BEETLE CODE BY YEAR OF ATTACK						OTHER TREE SPECIES	
			1	2	3	4	5	6	MAIN	OTHER
12.5 - 17.4	2.0								B1	DEAD PL.
17.5 - 25.0	3.3	100								
25.1 - 30.0	5.3	10								
30.1 - 35.0	7.1	10								
35.1 - 40.0	9.4	10								
40.1 - 45.0	11.6	10								
45.1 - 50.0	13.8	10								
50.1 - 55.0	16.2									
55.1 - 60.0	18.7									
60.1 +	25.3									
TOTALS		31							19	13
BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (GREEN) BLOWDOWN				
						Attacked		Unattacked		
P	2	1	4	1	1					
S	2	1	5	1	1					
COMMENTS ① = BS slope of 25%. Pink flag										
CREW NAMES						DATE				
James / Dairy						16 10 136				

FS 1111A RPG 00/02 7530881049 (100/bdl)

SPRUCE BEETLE
PROBE CARD

LOCATION		0475684		6157575		PAGE		OF	
310		100m		10m					
DIAMETER CLASS	SURFACE AREA FACTOR	NUMBER OF HEALTHY HOSTS	BARK BEETLE CODE BY YEAR OF ATTACK						OTHER TREE SPECIES
			1	2	3	4	5	6	
17.5 - 25.0	3.3								
25.1 - 30.0	5.3								H
30.1 - 35.0	7.1								
35.1 - 40.0	9.4								
40.1 - 45.0	11.6								
45.1 - 50.0	13.8								
50.1 - 55.0	16.2								
55.1 - 60.0	18.7								
60.1 +	25.3								
TOTALS		16	4					1	9
BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (GREEN) BLOWDOWN			
						Attacked		Unattacked	
	4	0	2	0	0				0
	2	1	1	1	1				
COMMENTS									
CREW NAMES						DATE			
DARRYL JAMES						16 10 129			

FS 1111 RPG 2000/01 7530881048 (100/bdl)

TOPOGRAPHY		STRIP No. 1	TIMBER TYPE	
S5	B5		S5	B5
5% ↑		700	5%	
		600		
	C5	583	PROBE	
	C5	500	C5	
		483	C1 C1	
		400	C1 C1	
		340m-303°	S4 B6	
↑	S4 B6	300	5%	
5%	C5		C5	
		200	S5 B5	
S5	B5	100		
		264		

STRIP NO.: 1
 START STRIP: ①
 JOB NO.: PAR-033
 CREW: DARRYL, JJ
 REMARKS: Steep
 DIRECTION: 264°, 303°, 286°, 313°
 DATE: JAN 30, 2016



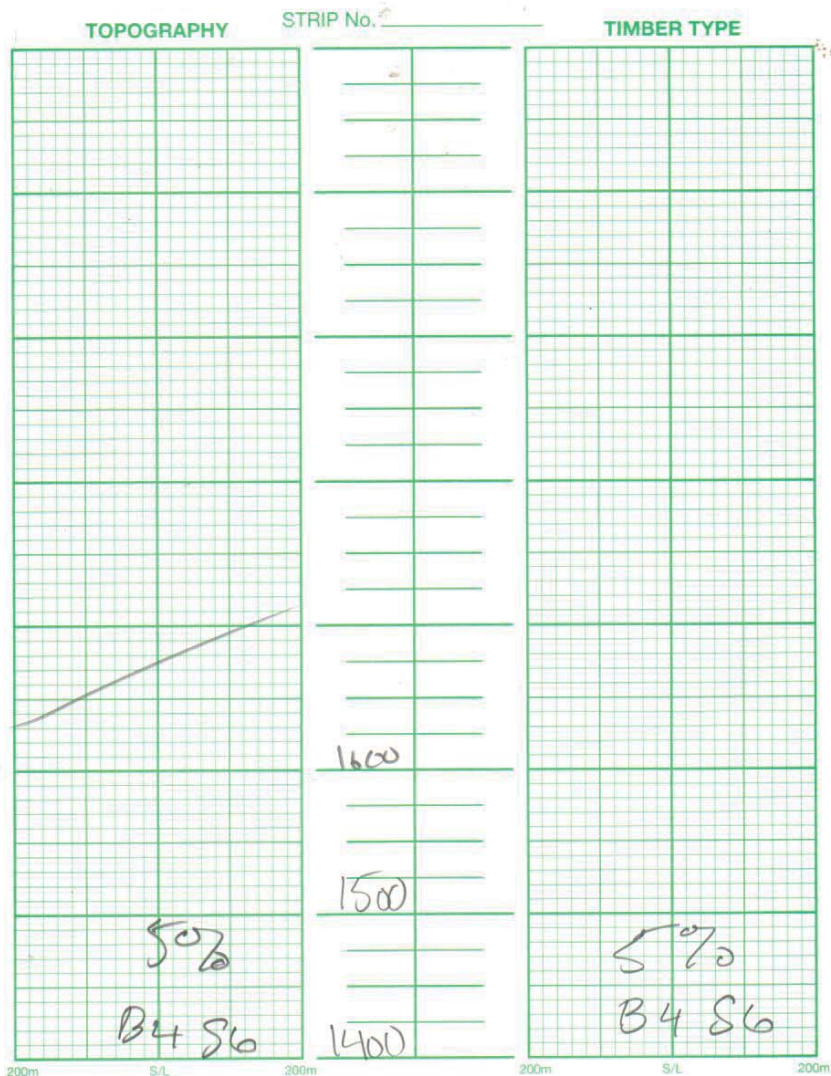
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 Ph: 1-800-663-6843

TOPOGRAPHY		STRIP No. 1	TIMBER TYPE	
S4	B6	1300-313°	S4	B6
		1200		
		1100		
8%		1000	8% ↑	
		900		
S5	B5	865-286°	S5	B5
		800		
		700		

STRIP NO.: 1
 START STRIP: 700
 JOB NO.: PAR-033
 CREW: DARRYL, JJ
 REMARKS: STEEP
 DIRECTION: 264°, 303°, 286°, 313°
 DATE: JAN 30, 2016

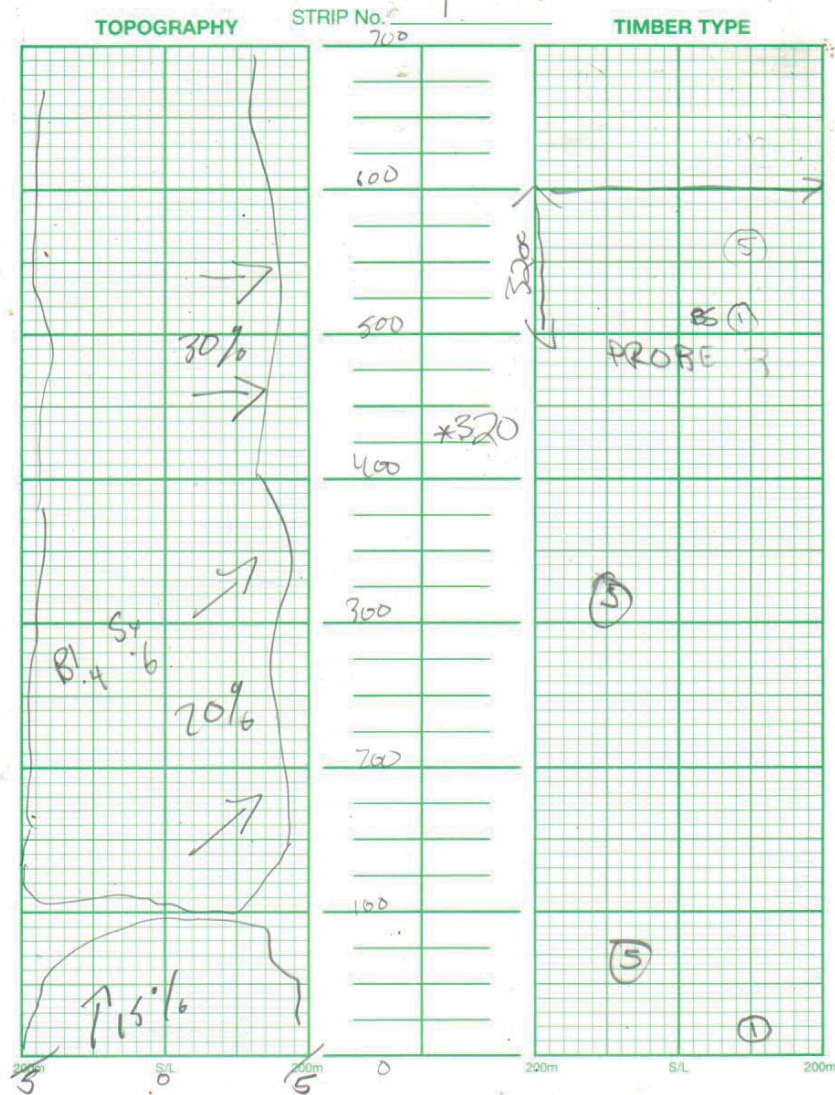


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STRIP NO.: 1 DIRECTION: 264°, 303°, 286°, 313°
 START STRIP: 1400
 JOB NO.: PAR-033 DATE: Jan 30, 2016
 CREW: Darryl JJ
 REMARKS: STEEP

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STRIP NO.: 1 DIRECTION: 205°, 320°
 START STRIP: 0m
 JOB NO.: PAR-033 DATE: Jan 30
 CREW: Samir (Darryl)
 REMARKS:

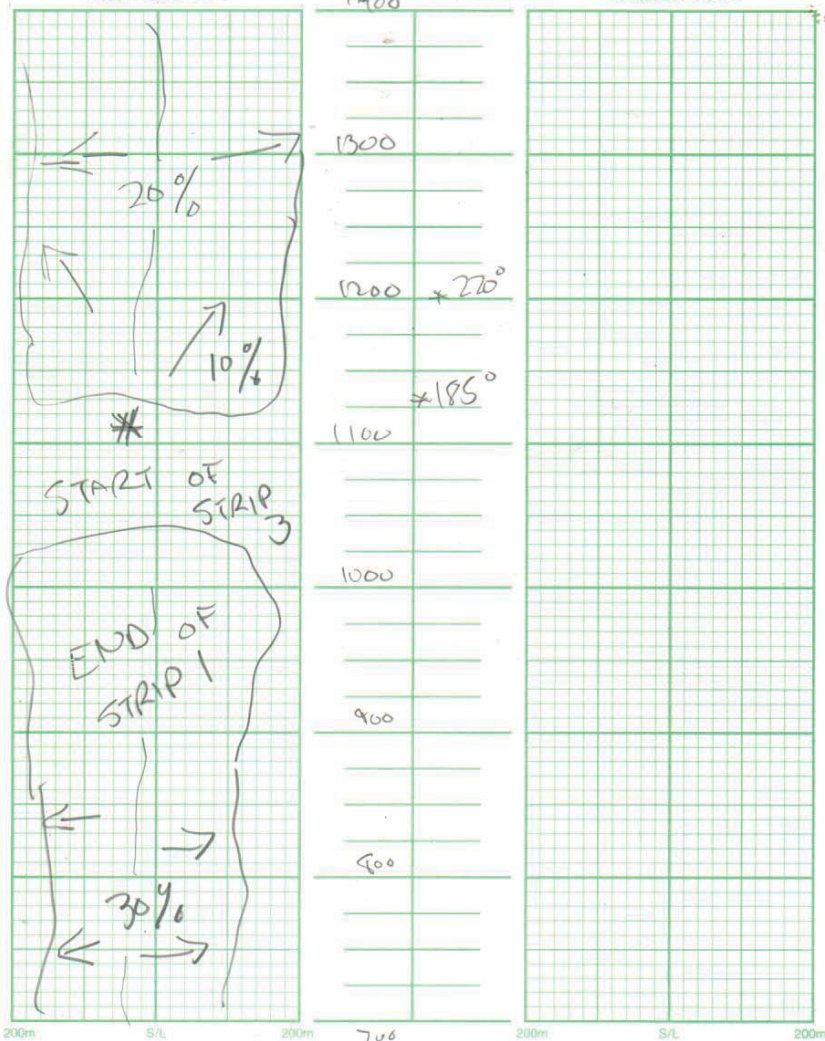
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TOPOGRAPHY

STRIP No.

133

TIMBER TYPE



STRIP NO.:

133

DIRECTION:

320°, 185°, 220°

START STRIP:

700 m

JOB NO.:

PAR-033

DATE:

JAN 30

CREW:

James / Darryl

REMARKS:



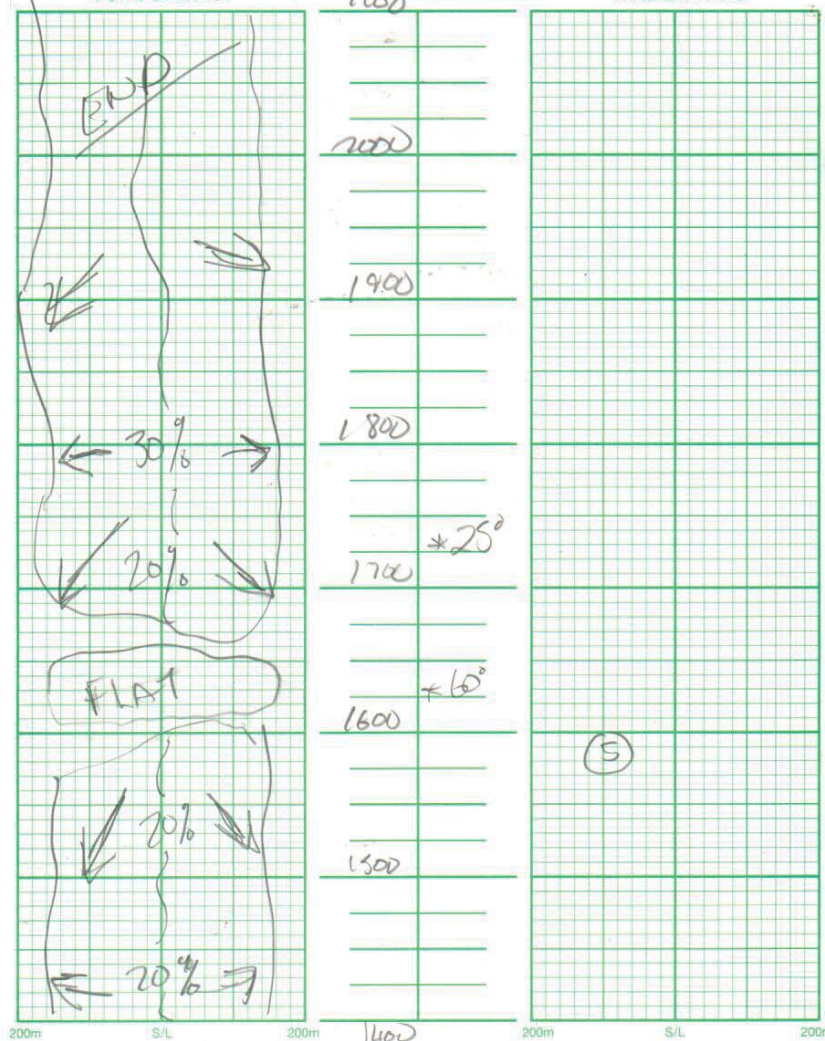
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TOPOGRAPHY

STRIP No.

3

TIMBER TYPE



STRIP NO.:

3

DIRECTION:

220°, 60°, 25°

START STRIP:

JOB NO.:

PAR-033

DATE:

JAN 30 / 2016

CREW:

James / Darryl

REMARKS:



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