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SPRUCE BARK BEETLE REPORT FH17DPG218

POLYGON: **2016-BLA-0099** HECTARES: 33.7

WALKTHROUGH DISTANCE: 3100

ESTIMATED INFFESTED PIXELS FROM WALKTHROUGH (Code 1-4) 1 **3.2%**

SUMMARY OF CURRENT INFESTATION

Walkthrough found 1 Code 1 attacked tree,. Site has low sanitaion rating and low attack density from 1 probe line. Site has several older attacked trees as well with 4- Code 5's noticed. Sites to the west have no signs of attack, low priority. Points BLA0192 and BLA-0101 absorbed by polygon.

LIGHT SCATTERED ATTACK

ACCESS

From truck, walk 750m at 150 degrees to northern part of polygon

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

Overall relatively flat site without any major slopes, 0-15% throughout. Overall, Sx 40%, Balsam 60%, with concentrated areas of thick balsam.

SIZE, BOUNDARY and PATTERN OF INFESTATION

Polygon 34 hectares with 3% infested pixels (1 pixel). Invested pixel is single attack and captured with probe line and has light sanitation rating.. There are 4 Code 5 older attack scattered through polygon as well, no pattern but mainlyt in the north half of polygon. Sites to the west of polygon no signs of attack

INCIDENCE AND SEVERITY OF ATTACK

1 probe line has attack density Low with low larval density. Attack very light.

RISK OF BEETLE SPREAD

Polygon has pocket of singular attack and older attack that are scattered throughout polygon/. Is fresh cutblock in northern part of polygon.

ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES

Good access, minimal slopes. Close to mainline road. Already had some harvesting in area

RECOMMENDATIONS

OPTION 1

NO ACTION

Sanitation and Salvage Rating is low from 1 probe line, spread should be minimal. Other probe site in the immediate area have no attack

OPTION 2

Summary

2016-BLA-0099	33.7	METERS WALKED	3100	% TRAVERSED	9.2%
PIXELS COVERED BY WALKTHROUGH	31	INFESTED PIXELS	1	**ESTIMATED % OF BLOCK INFESTED (From Walk through)**	**3.2%**

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	9.9	0.0	0.0	0.0	0.0	0.0	0.0	36.3
25.1-30.0	5.3	15.9	0.0	0.0	0.0	0.0	0.0	0.0	47.7
30.1-35.0	7.1	42.6	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	28.2
40.1-45.0	11.6	34.8	0.0	0.0	0.0	0.0	0.0	0.0	23.2
45.1-50.0	13.8	27.6	13.8	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	144.6	130.8	13.8	0	0.0	0.0	0.0	0	199.3

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
0.80	< 3.9 SEVERE Attack Density	**0.60**	>24.9 EXTREME Mean Larval Density

TABLE 2- Spruce Beetle Management Options after Walkthrough

			SANITATION AND SALVAGE HARVEST PRIORITY RATING			
% 2015 ATTACK	9.5%	9.5				
% 2014 ATTACK	0.0%	##	LIGHT	0-599	LEAVE (Monitor, Trap Trees, Baits, etc)	401.3
% 2013 ATTACK	0.0%	##	MODERATE	600-999	PROBE (To Obtain Further Info)	
% HOST IN STAND	42.0%	##	HEAVY	1000+	RECOMMEND CRUISING/ LOGGING	

SUMMARY OF ALL CARDS FS1111

NUMBER OF CARDS 1

ACCESS - From truck, walk 750m at 150 degrees to northern part of polygon

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			2015		2014		2013			
			1	2	3	4	5	6	BL	AT
17.5-25.0	3.3	3	0	0	0	0	0	0	11	0
25.1-30.0	5.3	3	0	0	0	0	0	0	9	0
30.1-35.0	7.1	6	0	0	0	0	0	0	9	0
35.1-40.0	9.4	0	0	0	0	0	0	0	3	0
40.1-45.0	11.6	3	0	0	0	0	0	0	2	0
45.1-50.0	13.8	2	1	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		17	1	0	0	0	0	0	34	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
5	4	0	3	0	1	0	0	0

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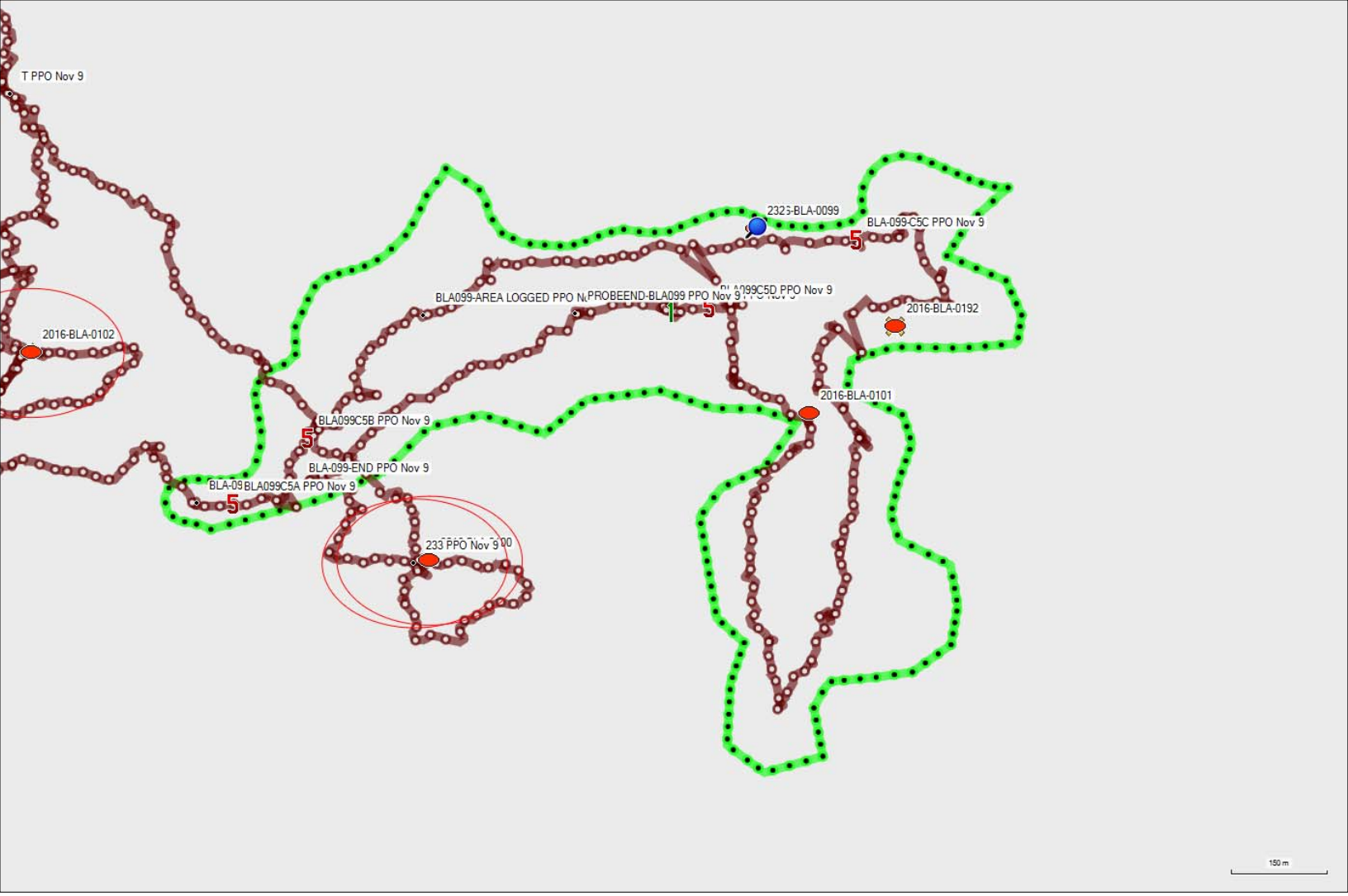
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PROBEEND-BLA099 PPO Nov 9
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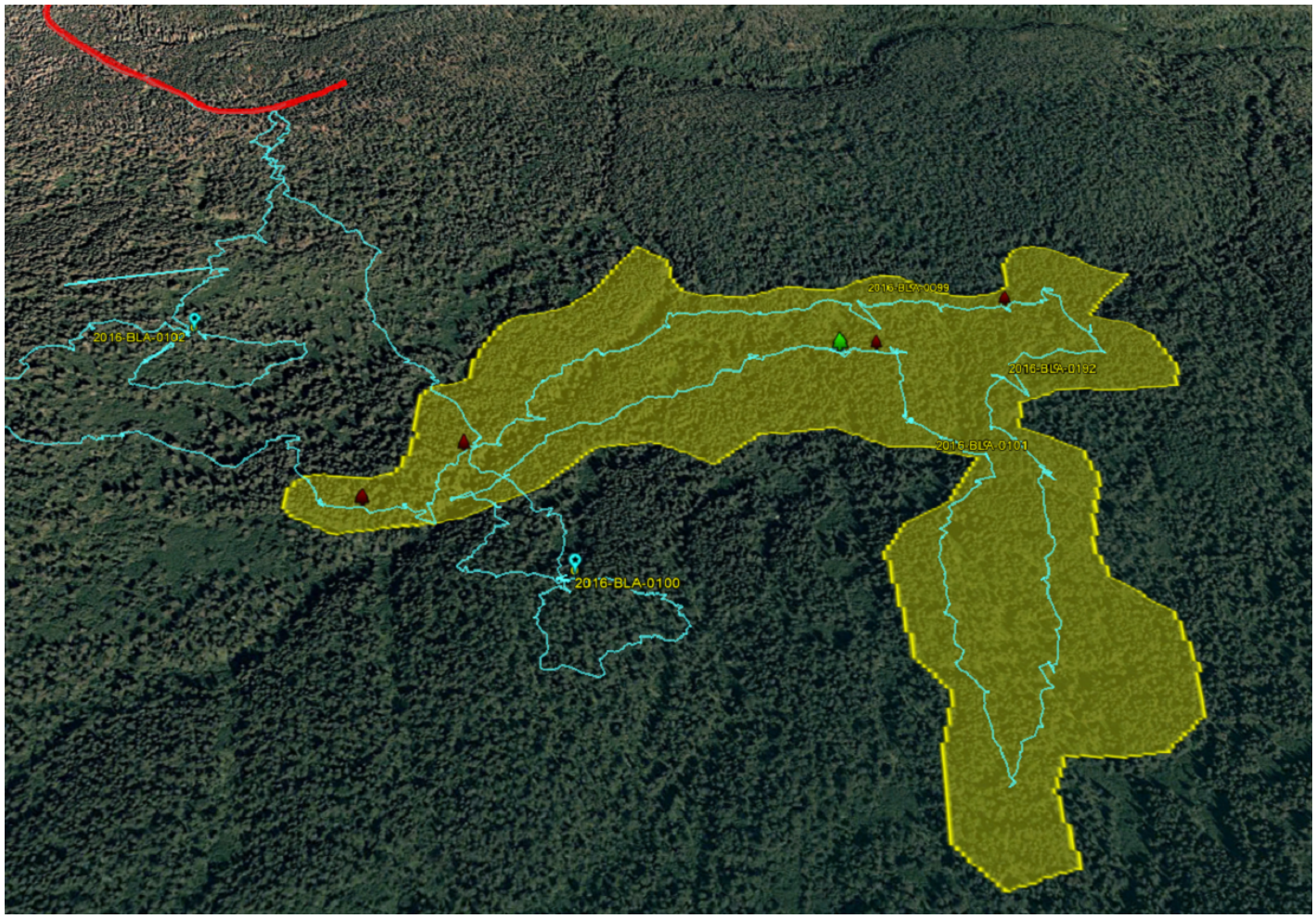
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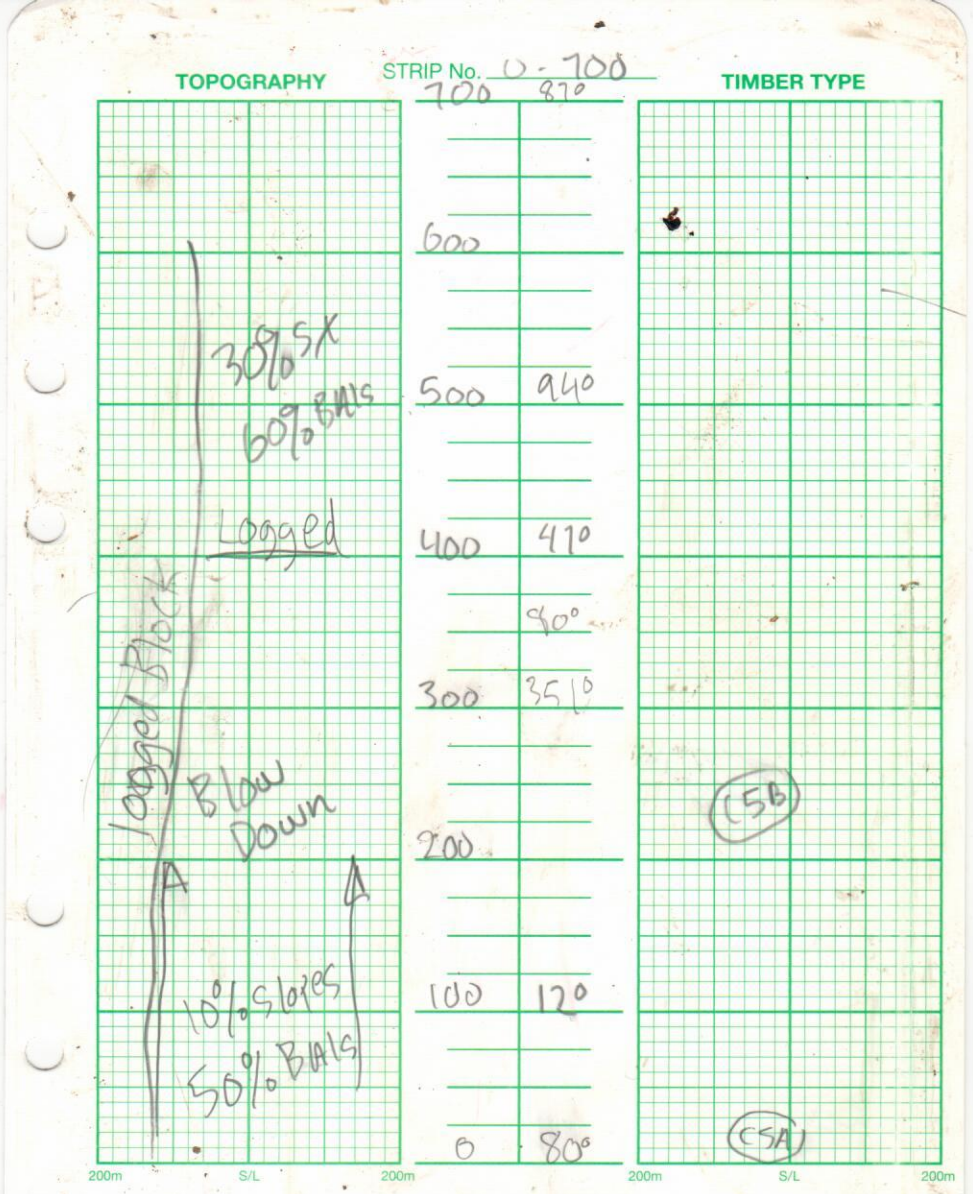

STRIP NO.: BIA-099 DIRECTION: 80°, 12°, 351°, 47°, 94°, 87°)

START STRIP: 0 - 700

JOB NO.: DATE: NOV 9, 16

CREW: Pat Poirier

REMARKS:

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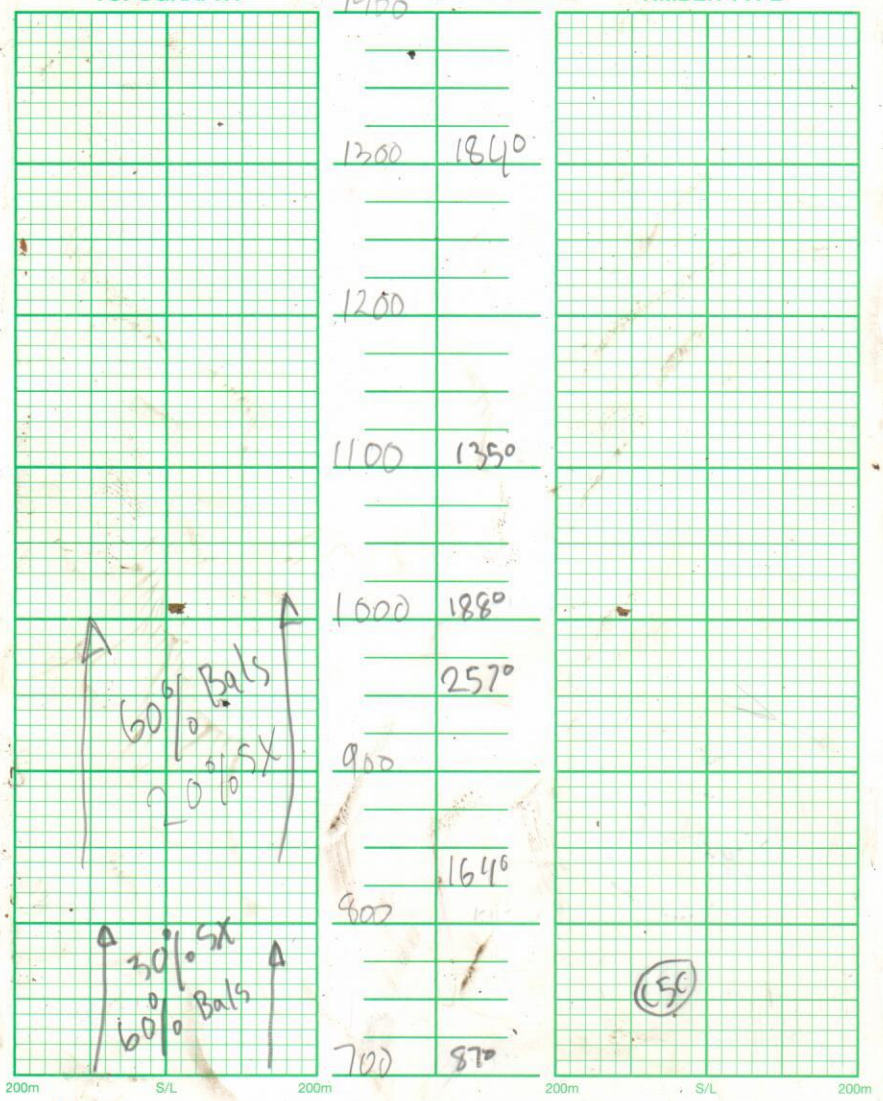
TOPOGRAPHY STRIP No: 1400 **TIMBER TYPE**



STRIP NO.: B1A-099 DIRECTION: 87°, 164°, 257°, 188°, 135°

START STRIP: 700-1400

JOB NO.: DATE: Nov 9, 16

CREW: Pat Poirier

REMARKS:

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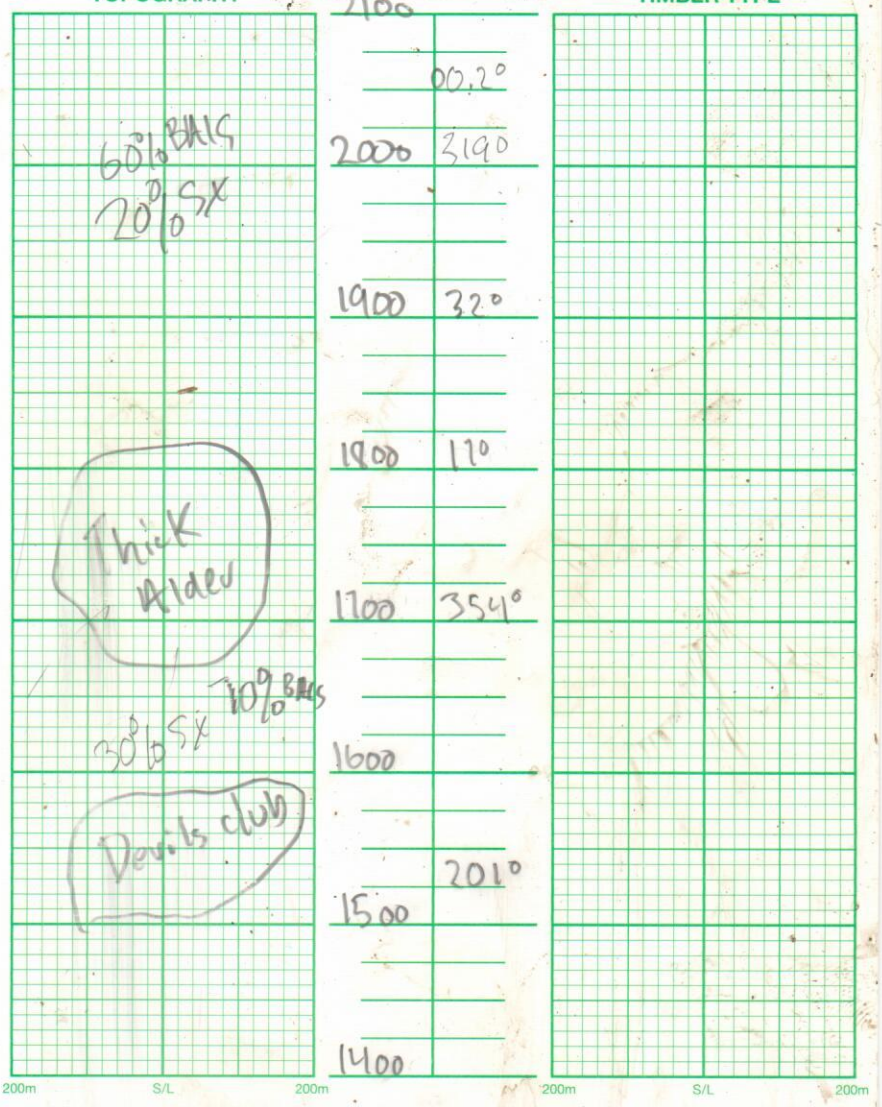
TOPOGRAPHY

STRIP No. 2100

TIMBER TYPE



STRIP NO.: BLA-099

DIRECTION: 183°, 201°, 354°, 17°, 32°, 319°, 002

START STRIP: 1400 - 2100

JOB NO.:

DATE: NOV 9, '16

CREW: Pat Poirier

REMARKS:

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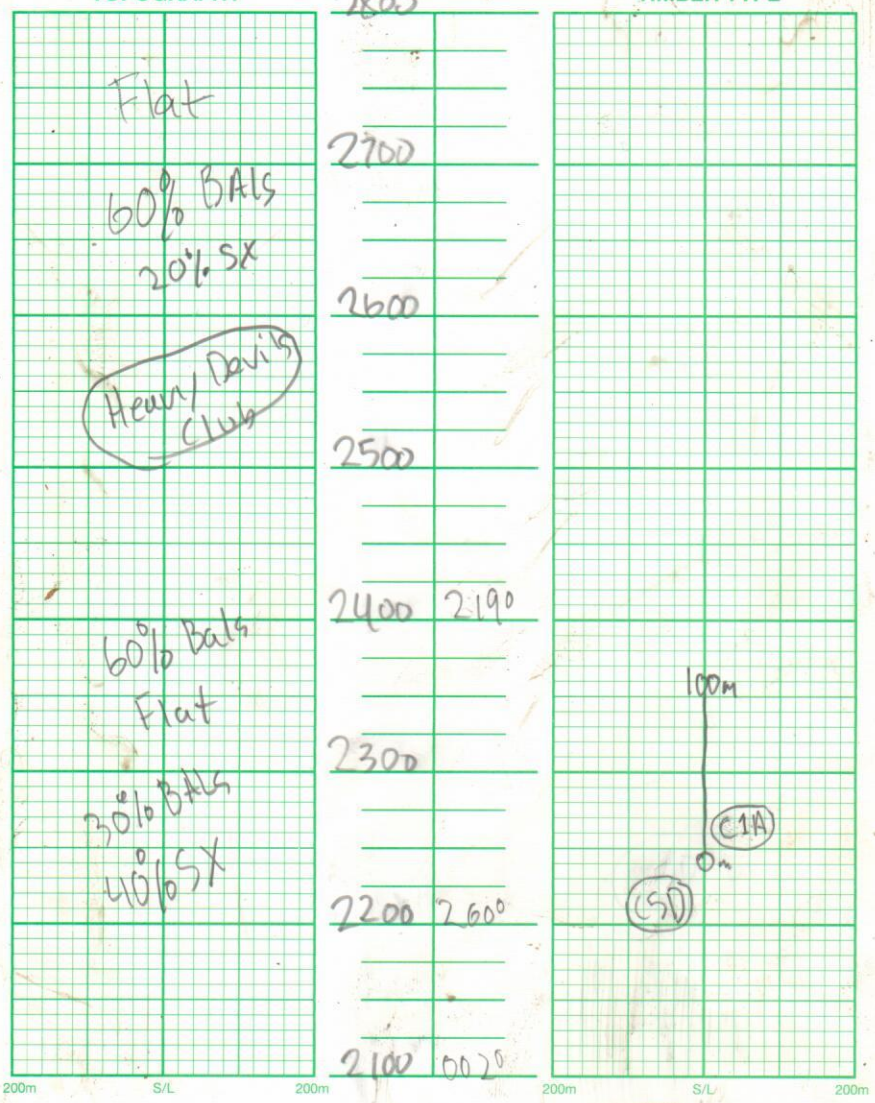
TOPOGRAPHY STRIP No. 2100 **TIMBER TYPE**



STRIP NO.: B1A-099 DIRECTION: 002°, 260°, 219°

START STRIP: 2100-2800

JOB NO.: 19 DATE: Nov 9, 10

CREW: Pat Poirier

REMARKS: Site 234 in play

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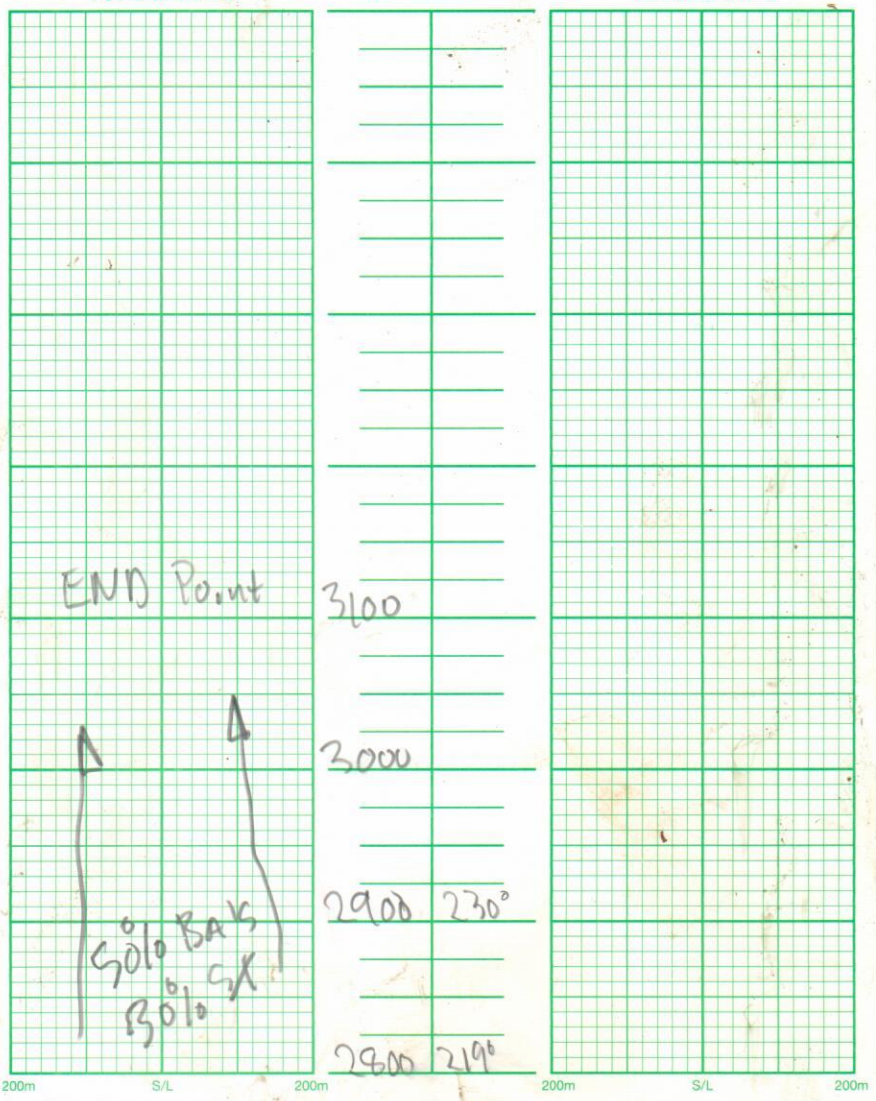
S1

TOPOGRAPHY STRIP No. 2800 TIMBER TYPE



STRIP NO.: B1A-099. DIRECTION: 219°, 230°

START STRIP: 2800 - 3100

JOB NO.: DATE: Nov 9, 16

CREW: Pat Poirier

REMARKS:

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