

**SENECA ENTERPRISES LTD.**

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**SPRUCE BARK BEETLE REPORT
FH16DMK016,017**

POLYGON: 2015-GAF-035

HECTARES:

74.05

WALKTHROUGH DISTANCE:

5100

ESTIMATED INFESTED PIXELS FROM

WALKTHROUGH (Code 1-4)

1

2.0%

SUMMARY OF CURRENT INFESTATION

Walkthrough had one infested pixel with one Code 1 attack tree found. Areas within polygon of heavy balsam and where scattered spruce, there is some evidence of older attacked trees (Code 5's)

VERY LIGHT SCATTERED ATTACK.

ACCESS

Good access via truck on mainline (Thutada Nation). Runs along the north boundary of polygon with GAF036 to the north..

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

Steep slopes rising in the south, heavy patches of balsam throughout.

SIZE, BOUNDARY and PATTERN OF INFESTATION

Walkthrough found only 1 code 1 attacked tree. There were scattered code 5's in and amongst the spruce that were in polygon. Heavy areas of balsam throughout.

INCIDENCE AND SEVERITY OF ATTACK

Only 1 code 1 found on a 1 and 2 year cycle. Minimal spruce and very light intensity. Low attack and low mean larval densities from bark sample.

RISK OF BEETLE SPREAD

Polygon has minimal spruce in stand and has cutblocks to the east and west. Polygon GAF036 is to the north.

ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES

Good access, steeper areas towards south but off of mainline.

RECOMMENDATIONS**OPTION 1****MONITOR**

Sanitation and salvage rating is light, and only 1 Code 1 tree found. There are scattered Code 5's also scattered within polygon but very light spruce component and heavy Balsam patches. Adjacent to GAF036 off of mainline. Need to schedule another walkthrough next year as several old attack trees and one code 1

OPTION 2**NO ACTION**

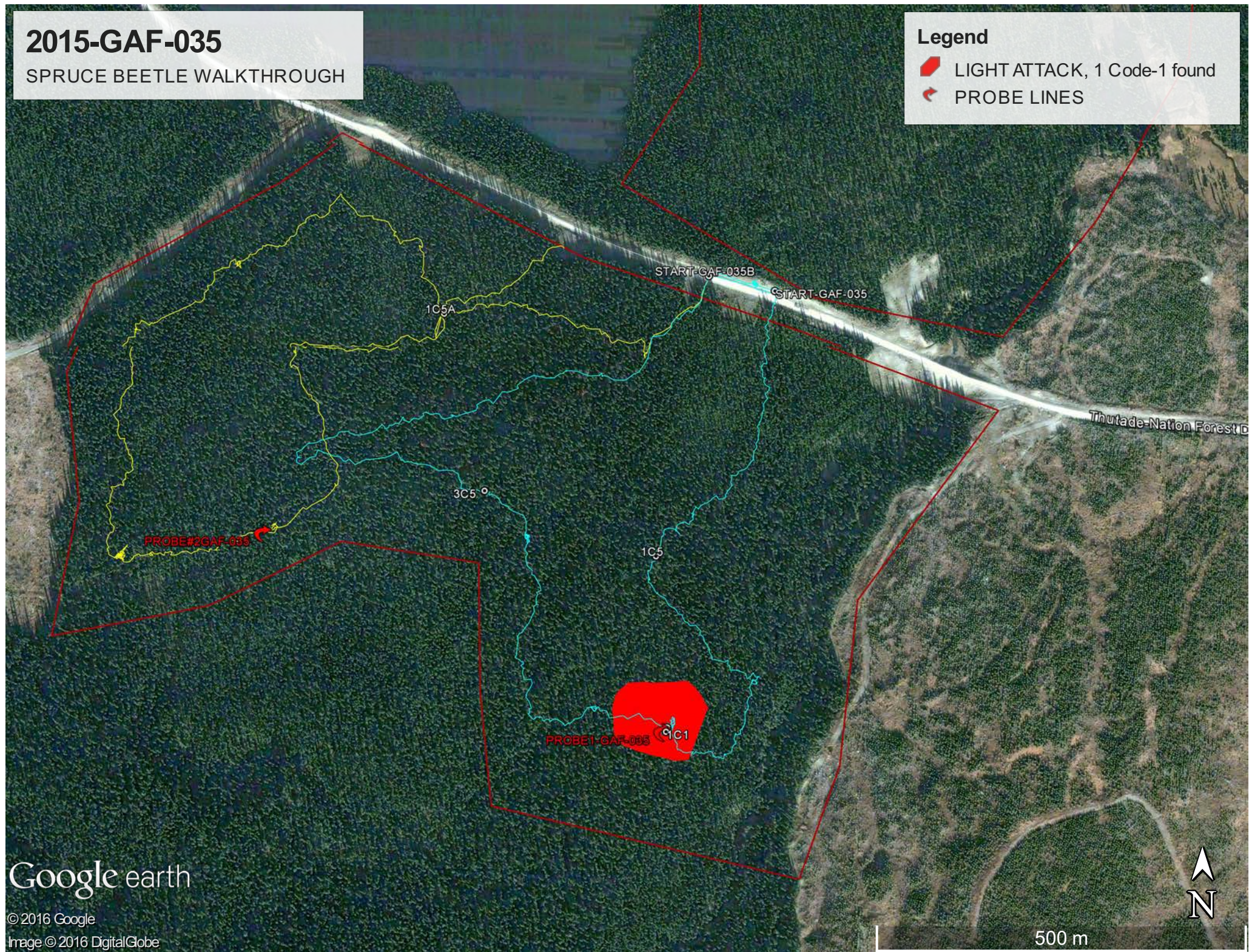
No action as only one recently attacked trees.

2015-GAF-035

SPRUCE BEETLE WALKTHROUGH

Legend

-  LIGHT ATTACK, 1 Code-1 found
-  PROBE LINES



Google earth

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Image © 2016 DigitalGlobe

500 m

N

Summary						
2015-GAF-035	HEC	74.05	METERS WALKED	5100	% TRAVERSED	6.9%
PIXELS COVERED BY WALKTHROUGH	51	INFESTED PIXELS	1	ESTIMATED % OF BLOCK INFESTED (From Walk through)		2.0%

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

DIAMETER CLASS			2015		2014		2013		
			1	2	3	4	5	6	
17.5-25.0	3.3	23.1	0.0	0.0	0.0	0.0	0.0	0.0	66
25.1-30.0	5.3	10.6	5.3	0.0	0.0	0.0	0.0	0.0	21.2
30.1-35.0	7.1	42.6	0.0	0.0	0.0	0.0	0.0	0.0	49.7
35.1-40.0	9.4	28.2	0.0	0.0	0.0	0.0	0.0	0.0	9.4
40.1-45.0	11.6	46.4	0.0	0.0	0.0	0.0	34.8	0.0	116
45.1-50.0	13.8	13.8	0.0	0.0	0.0	0.0	0.0	0.0	41.4
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	204.8	164.7	5.3	0	0.0	0.0	34.8	0	303.7

TABLE 2- Spruce Beetle Management Options after Walkthrough						
% 2015 ATTACK	2.6%	2.6	SANITATION AND SALVAGE HARVEST PRIORITY RATING			
% 2014 ATTACK	0.0%	##	LIGHT	0-599	LEAVE (Monitor, Trap Trees, Baits, etc)	275.3
% 2013 ATTACK	17.0%	##	MODERATE	600-999	PROBE (To Obtain Further Info)	
% HOST IN STAND	40.3%	##	HEAVY	1000+	RECOMMEND CRUISING/ LOGGING	

SUMMARY OF ALL CARDS FS1111						NUMBER OF CARDS		2		
ACCESS -		Good access via truck on mainline (Thutada Nation). Runs along the north boundary of polygon with GAF036 to the north..								
POLYGON FEATURES -		Steep slopes rising in the south, heavy patches of balsam throughout.								
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	BL	AT
17.5-25.0	3.3	7	0	0	0	0	0	0	20	0
25.1-30.0	5.3	2	1	0	0	0	0	0	4	0
30.1-35.0	7.1	6	0	0	0	0	0	0	7	0
35.1-40.0	9.4	3	0	0	0	0	0	0	1	0
40.1-45.0	11.6	4	0	0	0	0	3	0	10	0
45.1-50.0	13.8	1	0	0	0	0	0	0	3	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		23	1	0	0	0	3	0	45	0
BARK SAMPLES 15 cm x 15 cm	NO. ENTRANC E HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE ADULTS	NO. CALLOW	FRESH (GREEN) BLOWDOWN				
						Attacked Yr _____	Yr _____	Unattacked		
4	4	0	3	0	3	0		0	0	0
SIZE, BOUNDARY AND PATTERN OF THE INFESTATION										
Walkthrough found only `1 code 1 attacked tree. There were scattered code 5's in and amongst the spruce that were in polygon. Heavy areas of balsam throughout.										
INCIDENCE AND SEVERITY OF THE INFESTATION										
Only 1 code 1 found on a 1 and 2 year cycle. Minimal spruce and very light intensity. Low attack and low mean larval densities from bark sample.										
RISK OF BEETLE SPREAD										
Polygon has minimal spruce in stand and has cutblocks to the east and west. Polygon GAF036 is to the north.										
ACCESS, OPERABILITY AND INTEGRATED RESOURCE MANAGEMENT ISSUES										
Good access, steeper areas towards south but off of mainline.										

SPRUCE BEETLE PROBE CARD

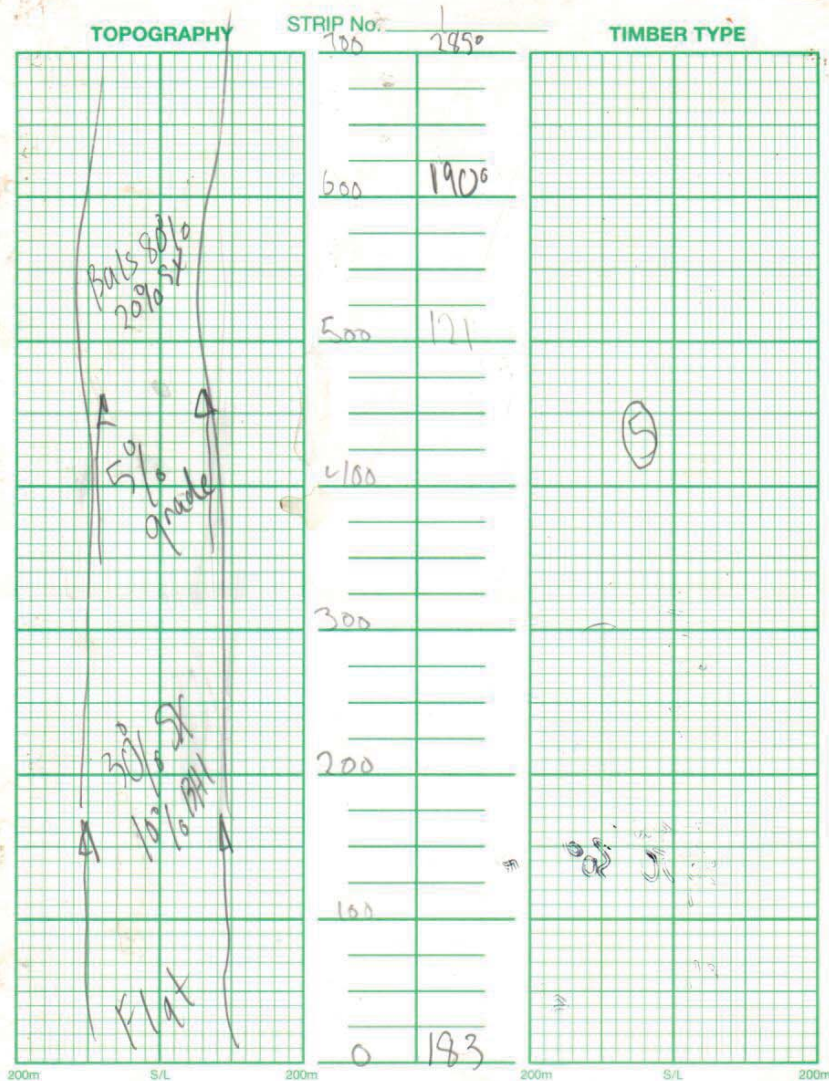
LOCATION GAE-035		U 042268 UTM 6136102		PAGE 1 OF 1					
BEARING 290		DISTANCE 100 m		STRIP WIDTH 10m					
DIAMETER CLASS	SURFACE AREA FACTOR	NUMBER OF HEALTHY HOSTS	BARK BEETLE CODE BY YEAR OF ATTACK						OTHER TREE SPECIES
			1	2	3	4	5	6	
17.5 - 25.0	3.3	••							BA
25.1 - 30.0	5.3	•							••
30.1 - 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	1				3		24
BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (GREEN) BLOWDOWN			
						Attacked	Unattacked		
A1	3	/	/	/	2				
A2	1	/	2	/	1				
COMMENTS									
CREW NAMES Pat Poirier						DATE Y M D 16 / 01 / 18			

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

SPRUCE BEETLE PROBE CARD

LOCATION GAE-035		U 042713 UTM 6136387		PAGE 1 OF 1					
BEARING 410		DISTANCE 100 m		STRIP WIDTH 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	••							BA
25.1 - 30.0	5.3	•							••
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		13							21
BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (GREEN) BLOWDOWN			
						Attacked	Unattacked		
	/	/	/	/	/				
	/	/	/	/	/				
COMMENTS No spruce beetle found in Probe									
CREW NAMES Pat Poirier						DATE Y M D 16 / 01 / 19			

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



STRIP NO.: 1 DIRECTION: 183°, 171, 190°, 285°

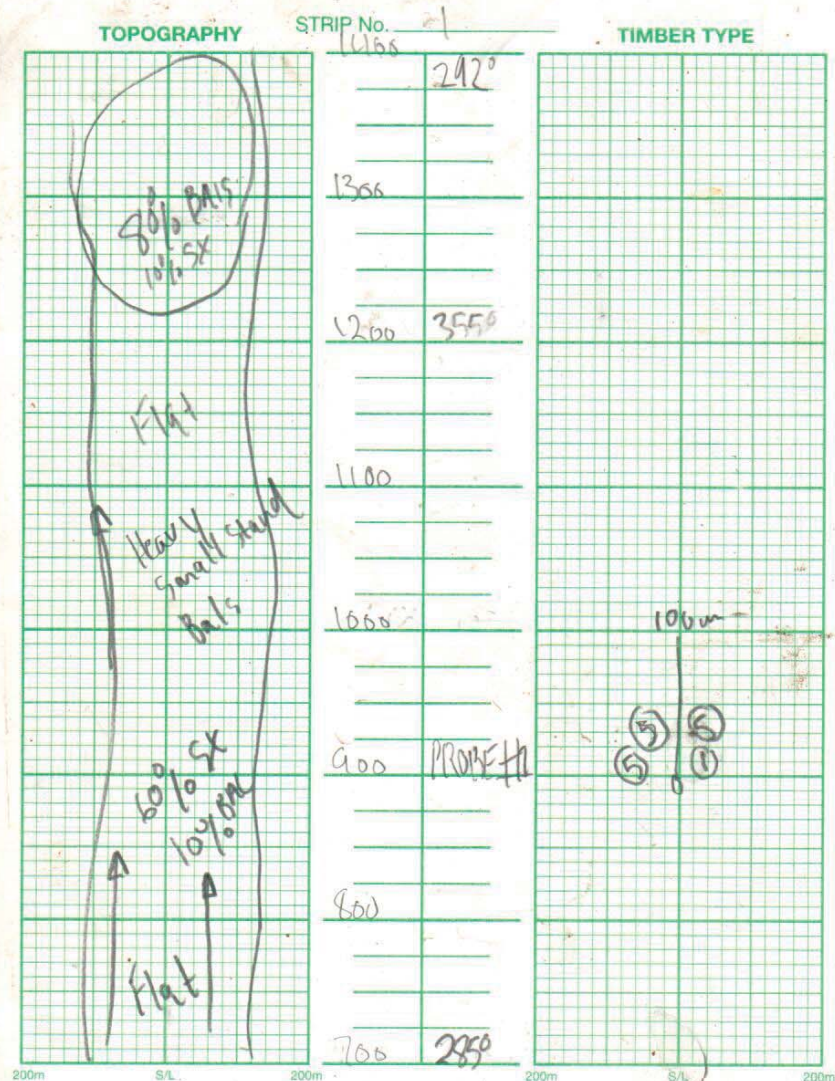
START STRIP: 0-700

JOB NO.: GAF-035 DATE: Jan 18, 16

CREW: Patrick Poirier

REMARKS:

 www.irisupplies.com
Ph: 1-800-663-6843



STRIP NO.: 1 DIRECTION: 285°, 355°, 292°

START STRIP: 700-1400

JOB NO.: GAF-035 DATE: Jan 18, 16

CREW: Pat Poirier

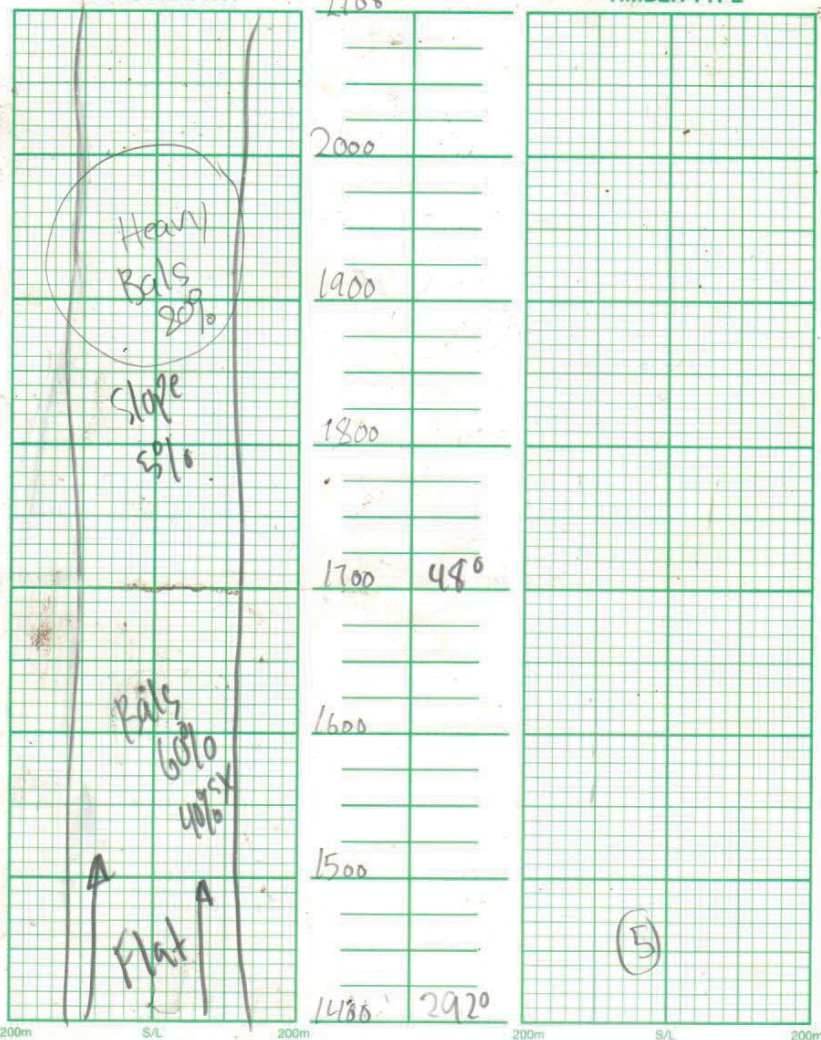
REMARKS:

 www.irisupplies.com
Ph: 1-800-663-6843

TOPOGRAPHY

STRIP No. 1

TIMBER TYPE



STRIP NO.: 1 DIRECTION: 292°, 48°
 START STRIP: 1400-2100
 JOB NO.: GAF-035 DATE: Jan 18, 16
 CREW: Pat Poirier
 REMARKS:

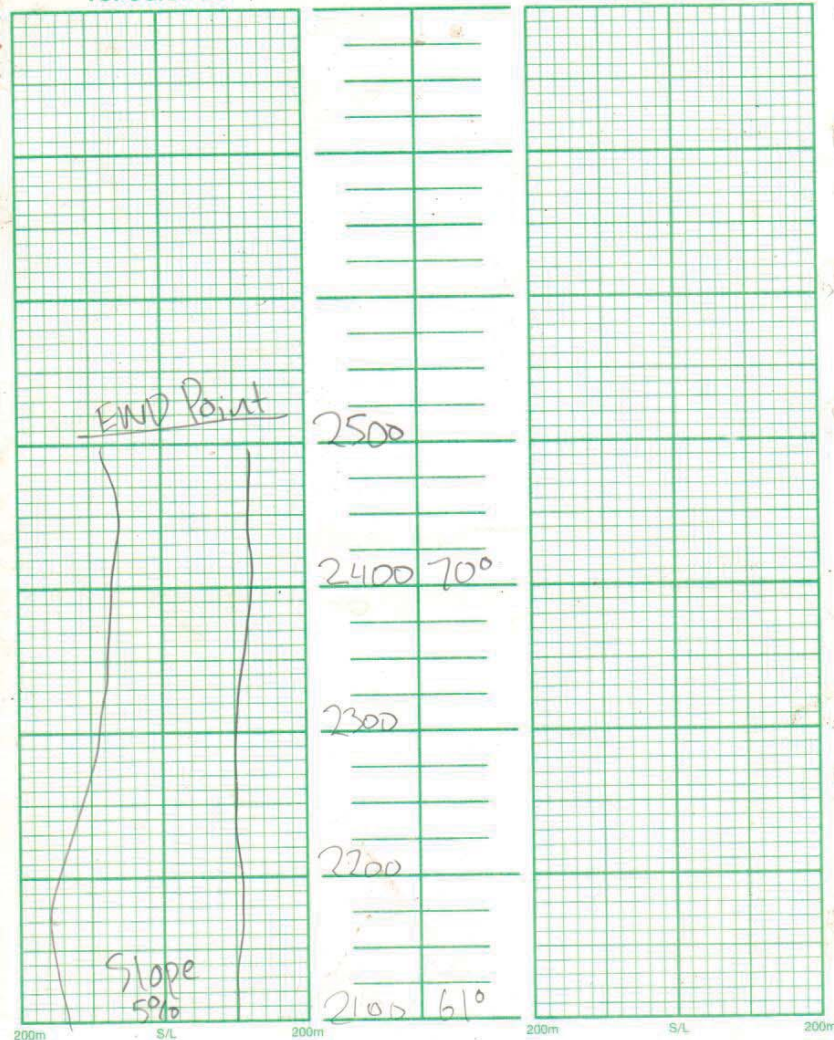


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TOPOGRAPHY

STRIP No. 1

TIMBER TYPE



STRIP NO.: 1 DIRECTION: 61°, 70°
 START STRIP: 2100-2500
 JOB NO.: GAF-035 DATE: Jan 18, 16
 CREW: Pat Poirier
 REMARKS:

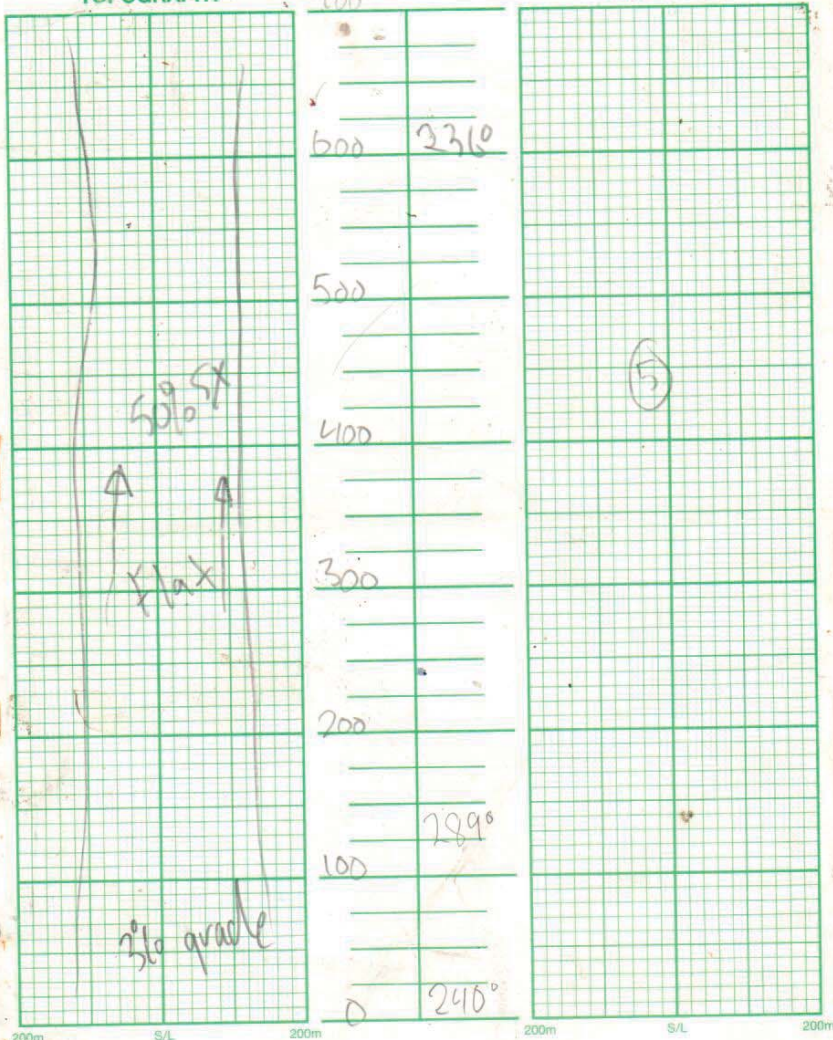


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TOPOGRAPHY

STRIP No. 7

TIMBER TYPE



STRIP NO.: 7

DIRECTION:

240°, 289°, 236°

START STRIP:

0-700

JOB NO.:

GAF-035

DATE:

Jan 19, 16

CREW:

Pat Poirier

REMARKS:

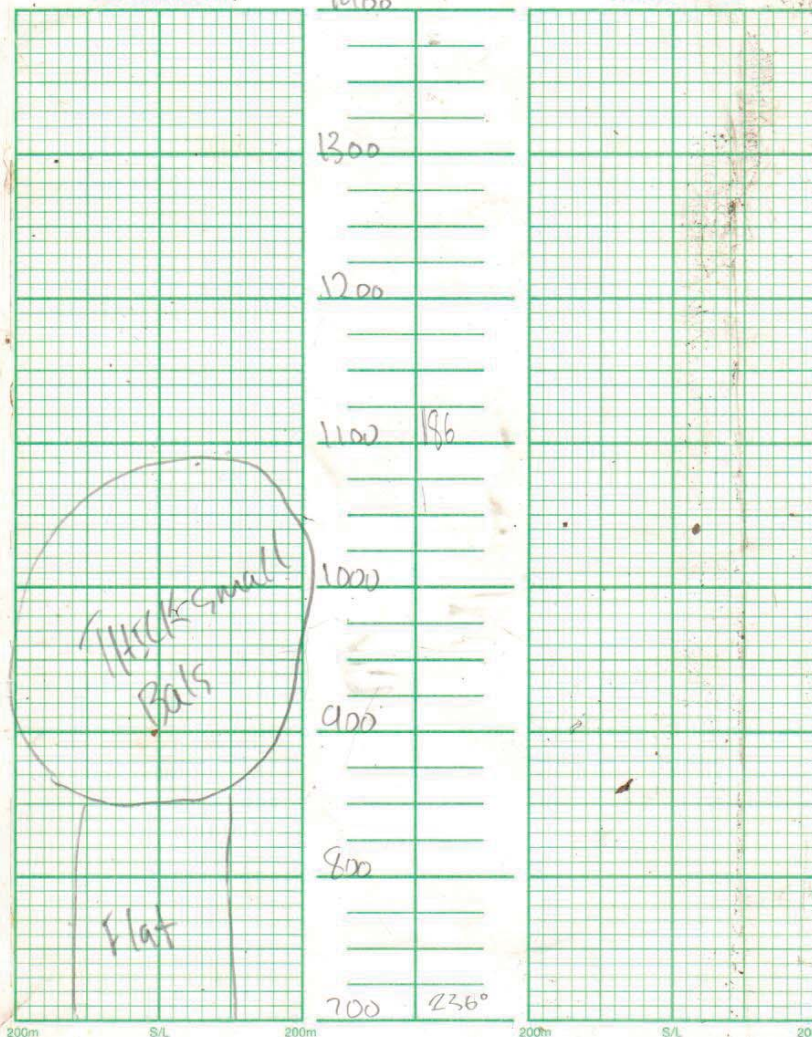


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TOPOGRAPHY

STRIP No. 2

TIMBER TYPE



STRIP NO.: 2

DIRECTION:

236°, 186°

START STRIP:

700-1400

JOB NO.:

GAF-035

DATE:

Jan 19, 16

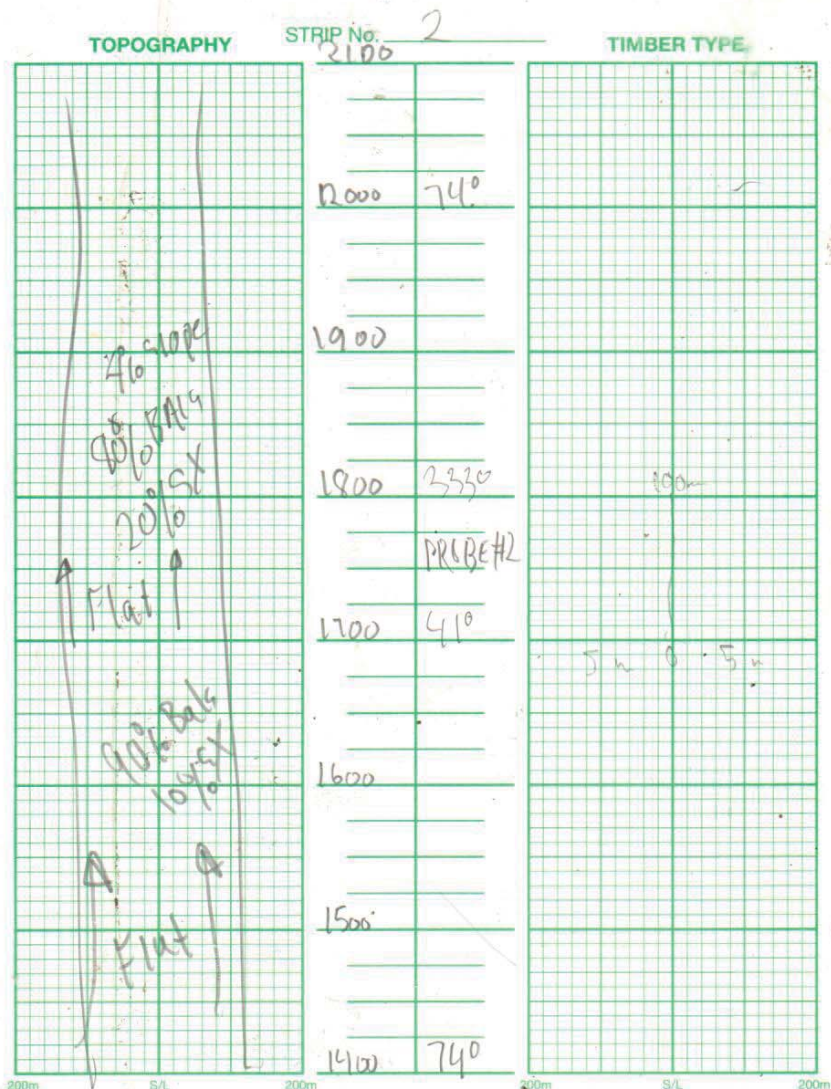
CREW:

Pat Poirier

REMARKS:



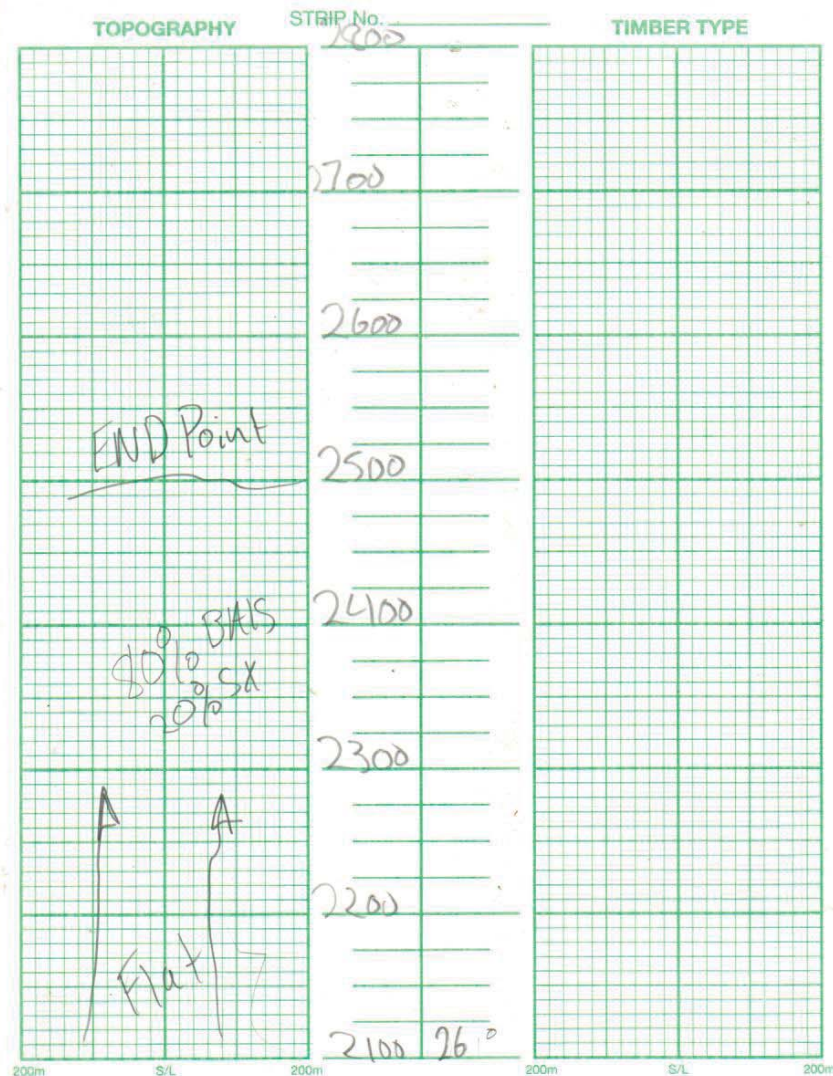
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Ph: 1-800-663-6843



STRIP NO.: 2 DIRECTION: 74°, 41°, 333°, 74°
 START STRIP: 1400-2100
 JOB NO.: GAF-035 DATE: Jan 19, 16
 CREW: Pat Poirier
 REMARKS:



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STRIP NO.: 2 DIRECTION: 26°
 START STRIP: 2100-2500
 JOB NO.: GAF-035 DATE: JAN 19, 16
 CREW: Pat Poirier
 REMARKS:



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