

**SENECA ENTERPRISES LTD.**

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**SPRUCE BARK BEETLE REPORT
FH16DMK016,017**

POLYGON: 2015-MIS-029

HECTARES:

46.98

WALKTHROUGH DISTANCE:

2100

ESTIMATED INFESTED PIXELS FROM

WALKTHROUGH (Code 1-4)

0

0.0%

SUMMARY OF CURRENT INFESTATION

Walkthrough found no signs of current attack. Polygon dominated by heavy areas of Balsam and Dead pine with minimal spruce component. There were some old attacked Code 5 Spruce found scattered throughout polygon.

NO CURRENT ATTACK

ACCESS

Access is from 7km on 1500 road. Than sled 7km, walk 200meters to west of polygon.

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

Steep polygon with drainage/creek running through the entire middle of polygon.

SIZE, BOUNDARY and PATTERN OF INFESTATION

No recent attack found, scattered old Code 5 attack located (5 total) .

INCIDENCE AND SEVERITY OF ATTACK

No current attack with 5 code 5 attacked trees found scattered throughout.

RISK OF BEETLE SPREAD

Areas of heavy balsam, no current attack and very patchy spruce.

ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES

Good access on old cutblocks roads for 7km, than 200m into west of polygon. Steep and wet/

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

With minimal spruce component in polygon and with scattered code 5 attacked spruce found, may be best to schedule another light walkthrough in 2016/2017.

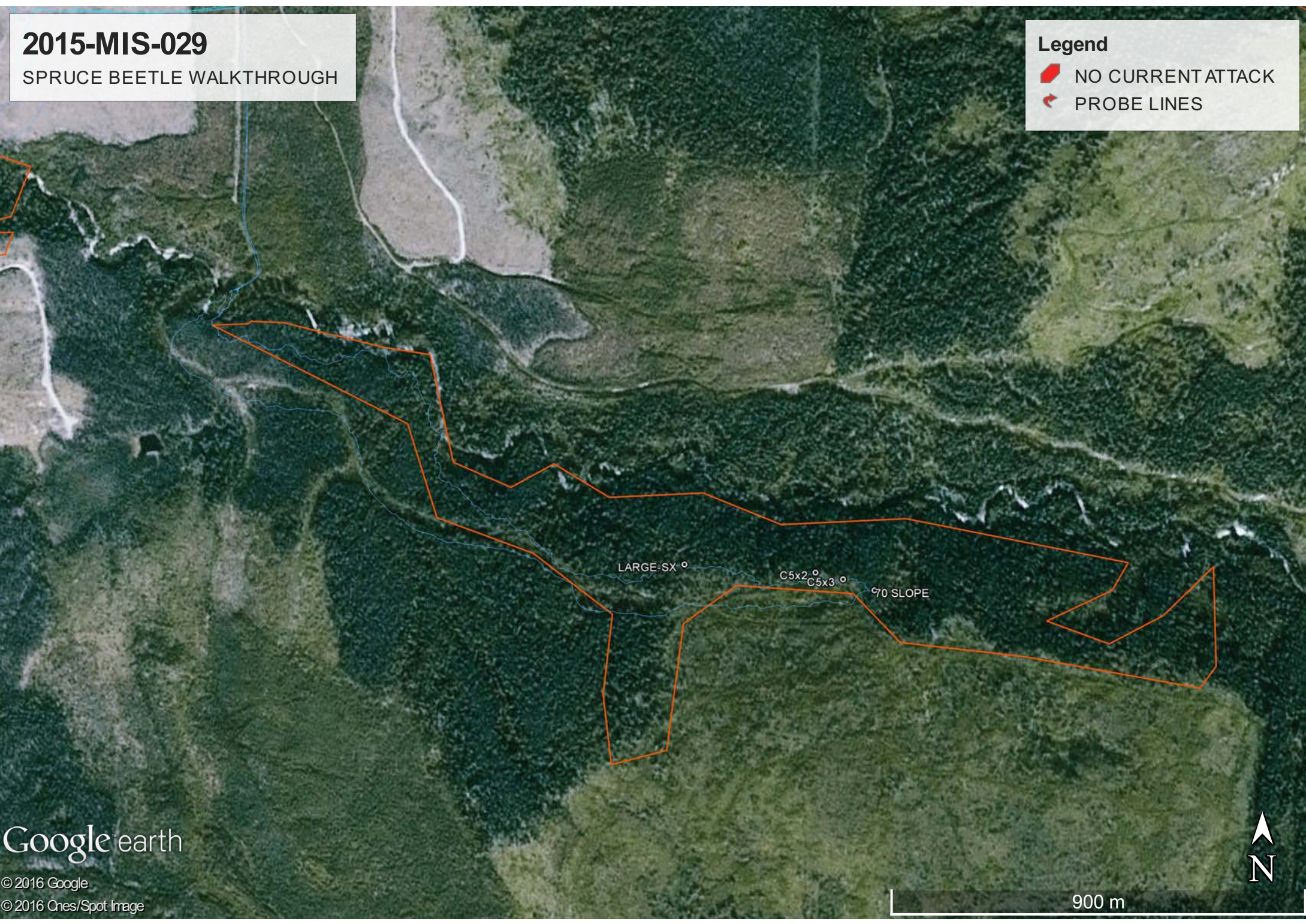
OPTION 2**NO ACTION**

No action required as no current attack.

2015-MIS-029
SPRUCE BEETLE WALKTHROUGH

Legend

-  NO CURRENT ATTACK
-  PROBE LINES



Google earth

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900 m

N

Summary						
2015-MIS-029	HEC	46.98	METERS WALKED	2100	% TRAVERSED	4.5%
PIXELS COVERED BY WALKTHROUGH	21	INFESTED PIXELS	0	ESTIMATED % OF BLOCK INFESTED (From Walk through)		0.0%

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	0
30.1-35.0	7.1	0	0.0	0.0	0.0	0.0	0.0	0.0	0
35.1-40.0	9.4	0	0.0	0.0	0.0	0.0	0.0	0.0	0
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	0

TABLE 4- Spruce Beetle Attack Density and Larval Density Rating

MEAN NO. OF ENTRANCE HOLES PER 225 cm2 PHLOEM SAMPLE	< 1 LOW Attack Density	MEAN NO. OF LIVING LARVAE PER 225 cm2 PHLOEM SAMPLE	< 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)	0.0
% 2013 ATTACK	0.0%	##	MODERATE	600-999	PROBE (To Obtain Further Info)	
% HOST IN STAND	0.0%	##	HEAVY	1000+	RECOMMEND CRUISING/ LOGGING	

No current attack, no probe line or bark samples taken.

SUMMARY OF ALL CARDS FS1111							NUMBER OF CARDS		0	
ACCESS -		Access is from 7km on 1500 road. Than sled 7km, walk 200meters to west of polygon.								
POLYGON FEATURES -		Steep polygon with drainage/creek running through the entire middle of polygon.								
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	0	0	0	0	0	0	0	0	0
25.1-30.0	5.3	0	0	0	0	0	0	0	0	0
30.1-35.0	7.1	0	0	0	0	0	0	0	0	0
35.1-40.0	9.4	0	0	0	0	0	0	0	0	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	0	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 Y r	Y r	Unattacked		
0	0	0	0	0	0	0		0		0
SIZE, BOUNDARY AND PATTERN OF THE INFESTATION										
No recent attack found, scattered old Code 5 attack located (5 total) .										
INCIDENCE AND SEVERITY OF THE INFESTATION										
No current attack with 5 code 5 attacked trees found scattered throughout.										
RISK OF BEETLE SPREAD										
Areas of heavy balsam, no current attack and very patchy spruce.										
ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES										
Good access on old cutblocks roads for 7km, than 200m into west of polygon. Steep and wet/										

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INCIDENCE AND SEVERITY OF THE INFESTATION

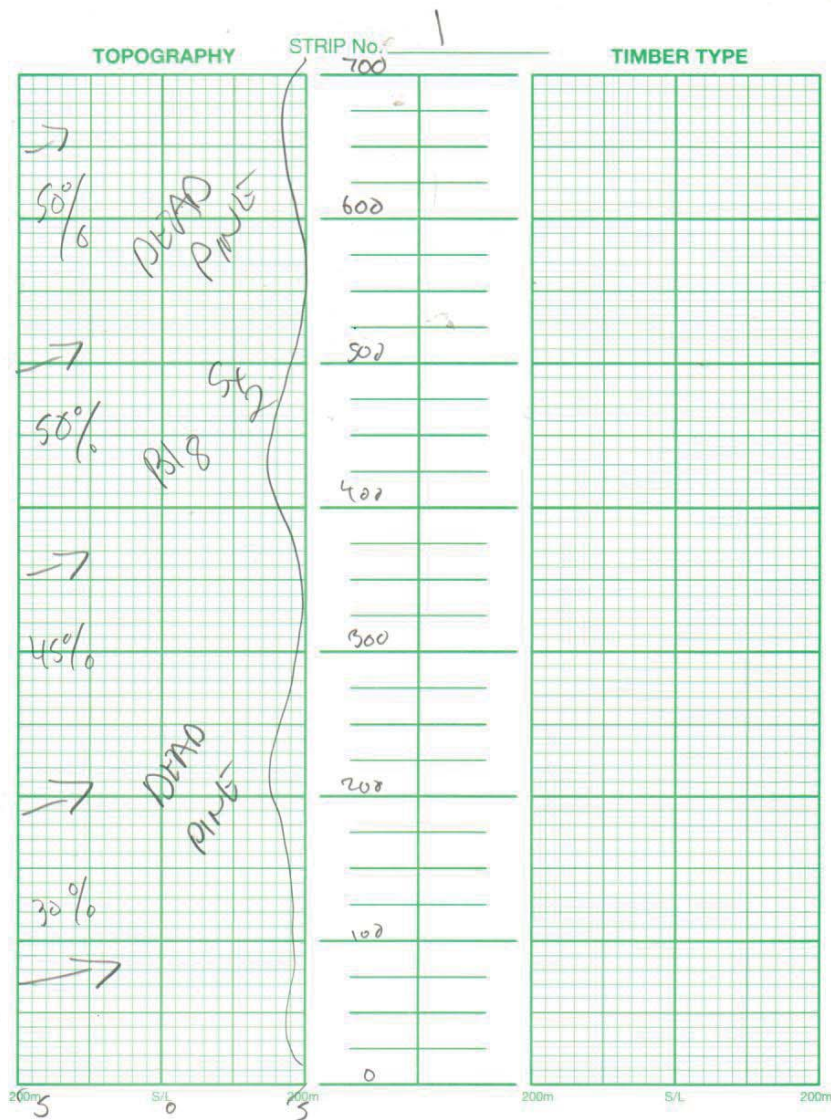
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RISK OF BEETLE SPREAD

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ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES

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STRIP NO.: 1 DIRECTION: 110°

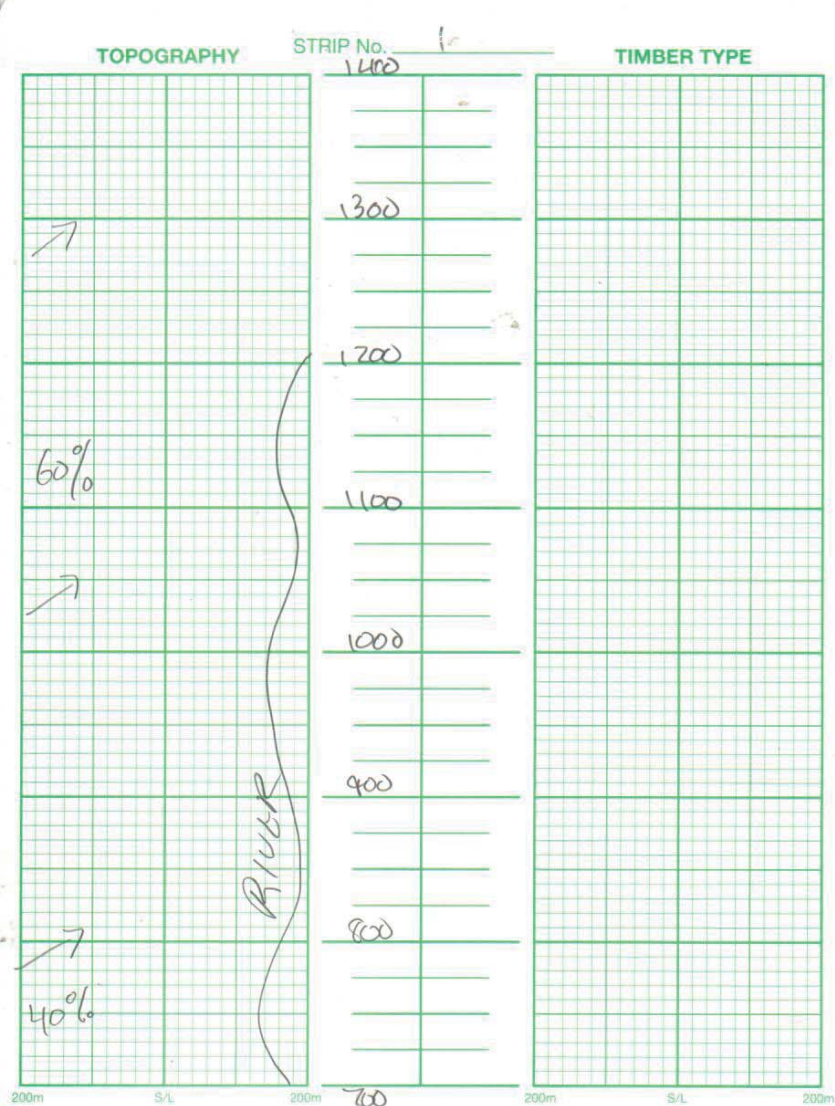
START STRIP: 0m

JOB NO.: MIS 29 DATE: FEB 23 / 2016

CREW: James Kelly

REMARKS: No Current Attack

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STRIP NO.: DIRECTION:

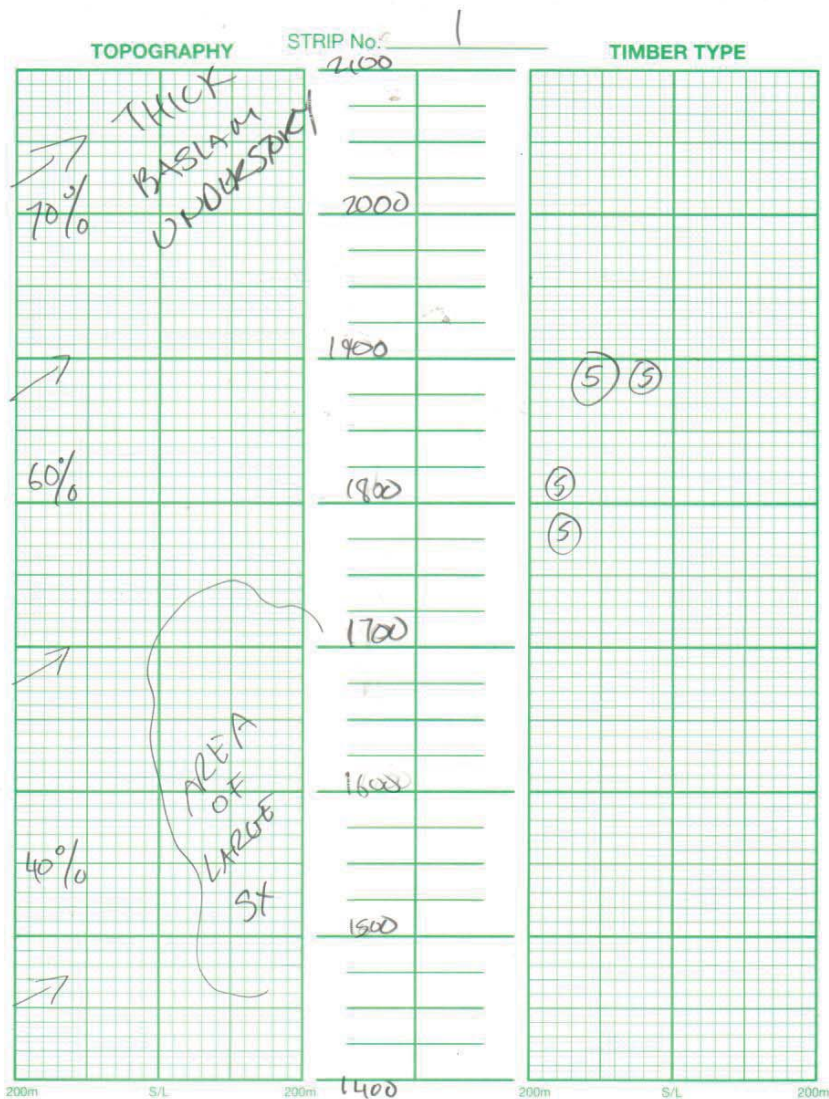
START STRIP:

JOB NO.: DATE:

CREW:

REMARKS:

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STRIP NO.: 1 DIRECTION: _____

START STRIP: 1400

JOB NO.: MIS 029 DATE: FEB 23/2016

CREW: Samuel Kelly

REMARKS: _____

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