

**SENECA ENTERPRISES LTD.**

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**SPRUCE BARK BEETLE REPORT
FH16DMK010**

POLYGON: 2015-PHI-020

HECTARES:

62.36

WALKTHROUGH DISTANCE:

3100

ESTIMATED INFESTED PIXELS FROM

WALKTHROUGH (Code 1-4)

5

16.1%

SUMMARY OF CURRENT INFESTATION

Walkthrough shows 16% of polygon has recent attack that is light in intensity and scattered throughout. The walkthrough concentrated on areas of spruce only and patches of the polygon leading in Aspen with minimal Spruce. There was a mixture of attacked trees noted from walkthrough, with 4Code 1's, 4 Code 2's, and 1 Code 4. Also, some older light scattered attack throughout, (Codes 5-6_)

LIGHT SCATTERED ATTACK**ACCESS**

Access is to the east edge of Polygon by 4WD. Polygon just past Phi-018,

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

Close to Polygons PHI012, PHI018. Drainage with steep pitches runs through middle of polygon. Patches of open wet ground, average 60% Sx 40% Balsam throughout.

SIZE, BOUNDARY and PATTERN OF INFESTATION

Polygon has 5 infested pixels scattered throughout polygon.. Some isolated areas with no recent attack and only Older Code 5 attack found as well. Attack around creeks and areas with larger diameter spruce.

INCIDENCE AND SEVERITY OF ATTACK

From 2 probe lines and 2 bark samples, trees attacked are mainly strip attacked Code 2 and 4 trees. There is a moderate attack density from entrance holes with a low mean larval density. Many of the infested pixels were isolated trees and light attack.

RISK OF BEETLE SPREAD

Polygon has pockets of attack that are scattered throughout polygon. Not much Spruce component in the east and surrounded by cutblocks in all directions. Low rate of spread.

ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES

Good access, minimal slopes. Just past to the west of Polygon 2015-PHI-018

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

Sanitation and salvage rating is light from 2 probe lines and 2 bark samples. These probe lines taken where attack found and recommend Monitor site and schedule another Walkthrough Fall of 2016. Mainly Code 1 and 2 Attack on a 2 year cycle.

OPTION 2**BAIT MONITOR**

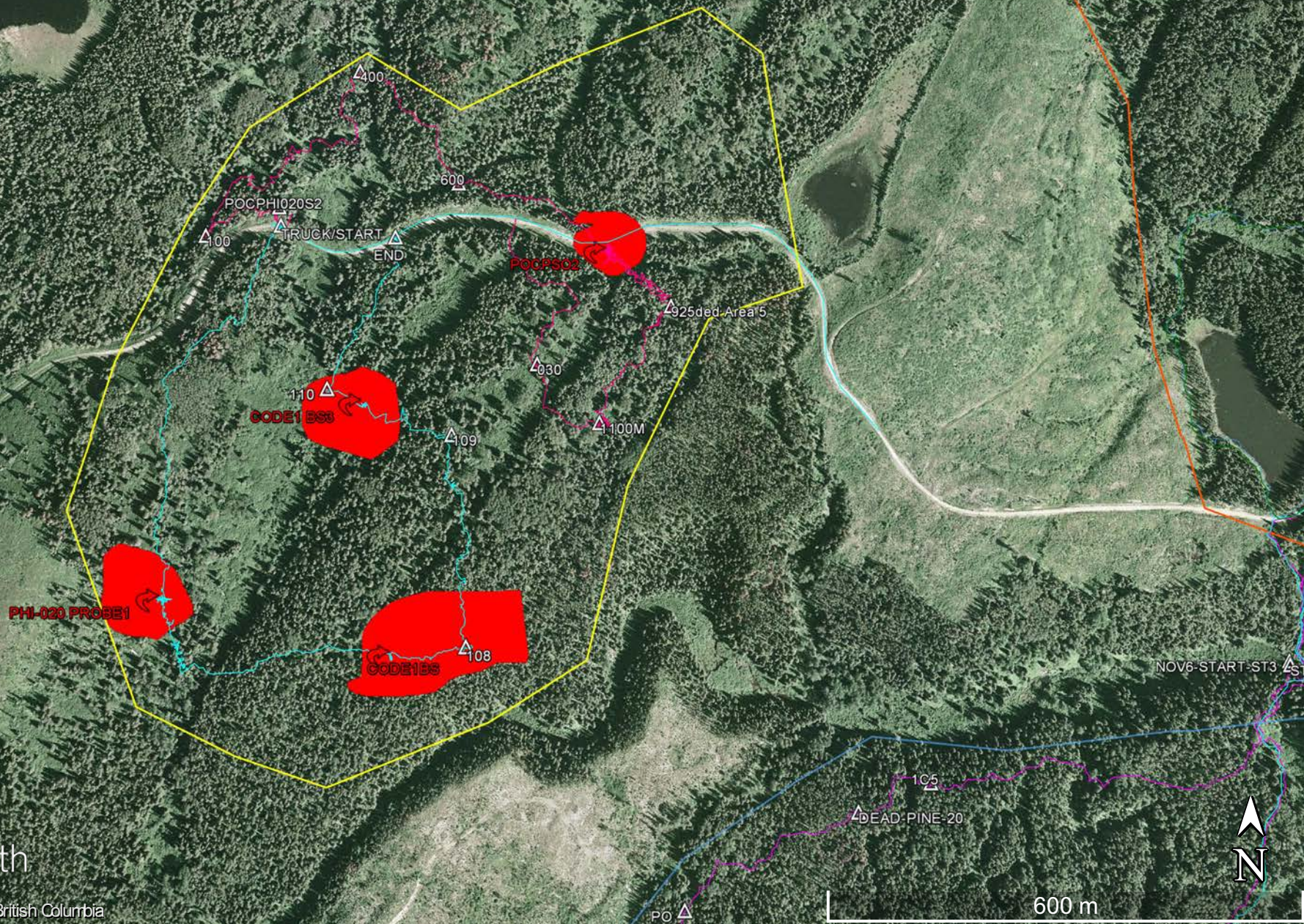
With mainly Code 1 and 2 trees noted, also noticed 1 code 4 and a presence of perhaps light 2013 attack, may want to setup a Bait tree program as polygon has good access to catch any 2016 flights. This can be incorporated into any plans with PHI-018 and PHI-012

2015-PHI-020

SPRUCE BEETLE WALKTHROUGH

Legend

- 2015-PHI-012 (SouthEast)
- 2015-PHI-018 (East)
- Light Scattered Attack
- Probe Lines



Google earth

Image © 2015 Province of British Columbia

SPRUCE BEETLE PROBE CARD

LOCATION 0485001 6092721		PHI-020 Probe 2		PAGE OF						
BEARING 118°		DISTANCE 100 m		STRIP WIDTH 10 m						
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	A	B
17.5 - 25.0	3.3	☐							⋮	☒
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		21	1	3			2	18	25	
BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (GREEN) BLOWDOWN				
						Attacked	Unattacked			
North	⋮		☐							
South	⋮		⋮		⋮					
COMMENTS ⊙ - Bark Sample @ DBH Code 2's right of line fork @ 1m above ground										
CREW NAMES Aaron Colbank						DATE Y M D 2015 11 18				

FS 11111 RPG 2000/01 7530881048 (100/bdl)



BRITISH COLUMBIA



BEETLE PROBE CARD

LOCATION 5458.423 PHI-020 123 14.547		ELEVATION		LATITUDE		PAGE OF				
BEARING 165°		STRIP LINE NO		STRIP WIDTH 10 m		DISTANCE 100 m				
				BEETLE SPECIES ☒ 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	B	A
12.5 - 17.4	2.0									
17.5 - 25.0	3.3	☐							L	⋮
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		25	1	1			3	20	19	
BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (GREEN) BLOWDOWN				
						Attacked	Unattacked			
N	3	/	4	/	/					
S	2	/	3	/	/					
COMMENTS ⊙ = bark sample										
CREW NAMES DALEEN UNDERGAIN						DATE Y M D 15 11 18				

FS 11111A RPG 00/02 7530881049 (100/bdl)



BEETLE PROBE CARD

LOCATION				ELEVATION		LATITUDE		PAGE		OF	
BEARING		STRIP LINE NO		STRIP WIDTH		DISTANCE		BEETLE SPECIES			
								☐ 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										
17.5 - 25.0	3.3										
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											
BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (GREEN) BLOWDOWN					
						Attacked	Unattacked				
3a	4	1	4	1	1	1	1				
3b	4	1	4	1	1	1	1				
COMMENTS											
PHI-020 3rd B.S. (not in probe)											
CREW NAMES						DATE					
Dawson V						Y M D 5 11 18					



BRITISH
COLUMBIA



BEETLE PROBE CARD

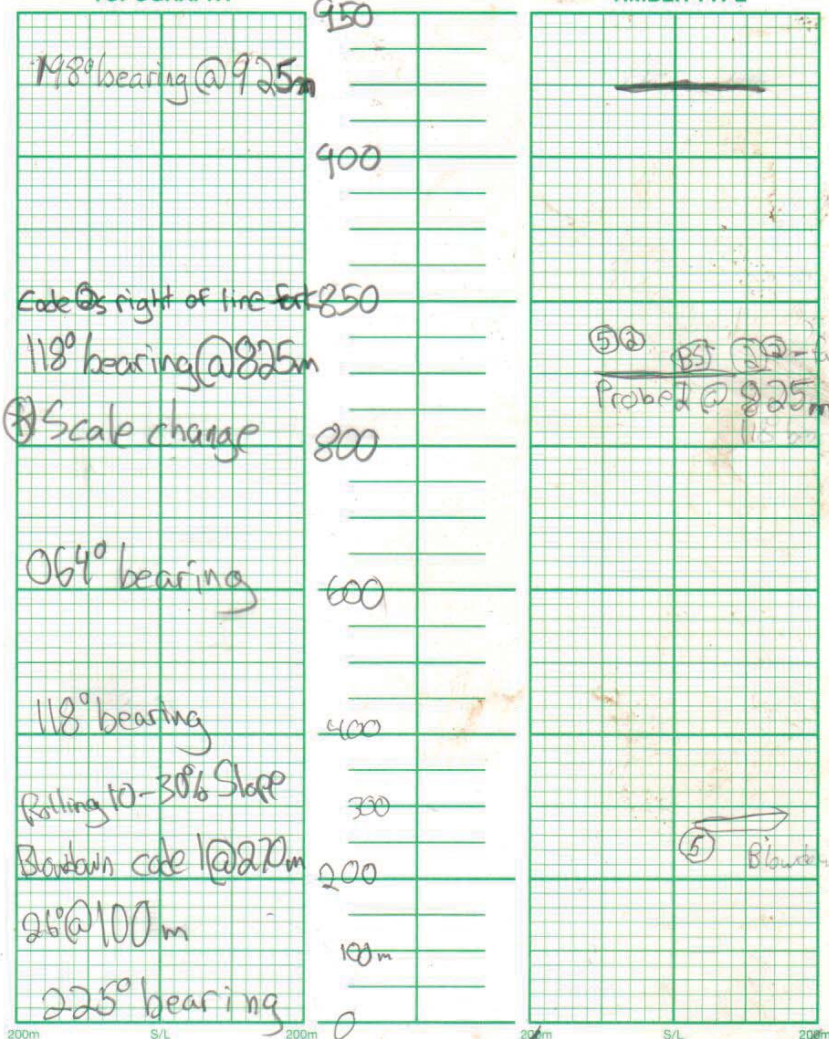
LOCATION				ELEVATION	LATITUDE		PAGE OF			
BEARING	STRIP LINE NO	STRIP WIDTH	DISTANCE	BEETLE SPECIES ☐ SB ☐ MPB ☐ DFB						
DIAMETER CLASS	SURFACE AREA FACTOR	NUMBER OF HEALTHY HOSTS	BARK BEETLE CODE BY YEAR OF ATTACK						OTHER TREE SPECIES	
			1	2	3	4	5	6	MAIN	OTHER
12.5 - 17.4	2.0									
17.5 - 25.0	3.3									
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										
BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (GREEN) BLOWDOWN				
						Attacked	Unattacked			
2b	4	1	3	1	1	1	1	1		
2c	3	1	1	1	1	1	1	1		
COMMENTS PHI 020 2nd bark sample (not in probe)										
CREW NAMES Duke						DATE Y M D 15 11 18				

TOPOGRAPHY

STRIP No.

PHI-020

TIMBER TYPE



STRIP NO.: 2

DIRECTION: 225°

START STRIP: 10 u 0484570

609272

JOB NO.: PHI-012

DATE: Nov 18th, 2015

CREW: Aaron Cobbank

REMARKS:

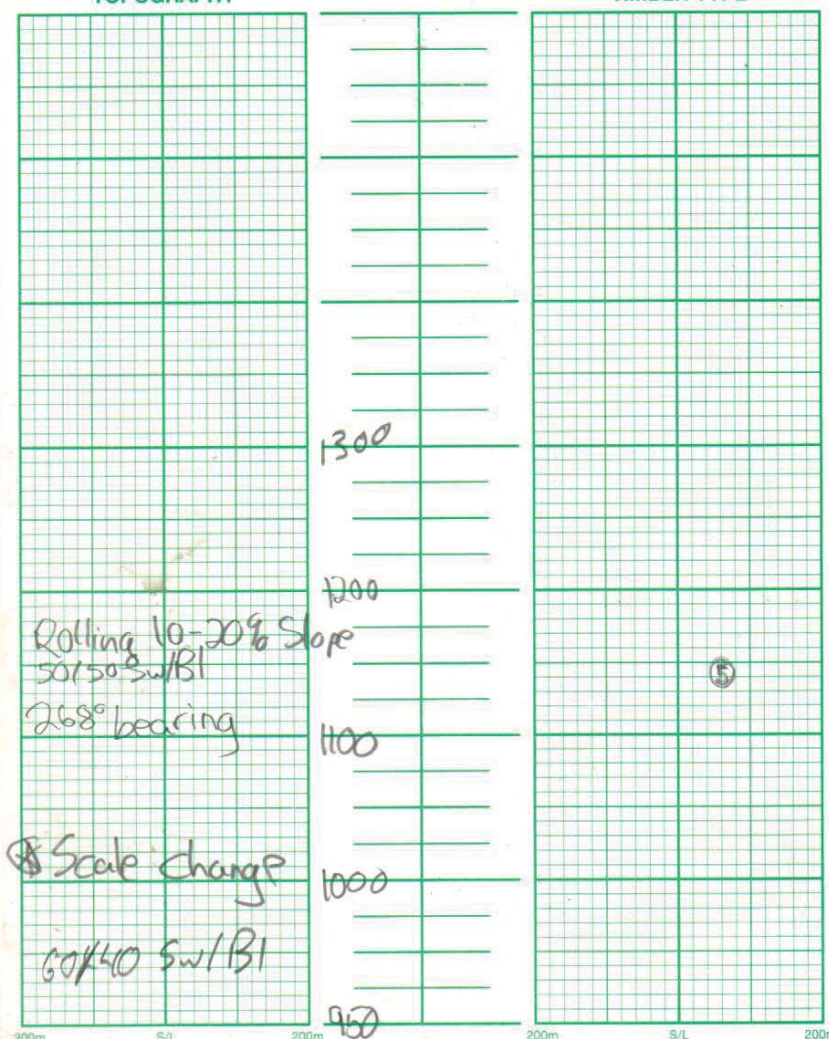

 www.irlsupplies.com
 Ph: 1-800-663-6843

TOPOGRAPHY

STRIP No.

P.I.L. 020

TIMBER TYPE



STRIP NO.:

DIRECTION:

START STRIP:

JOB NO.:

DATE:

CREW:

REMARKS:


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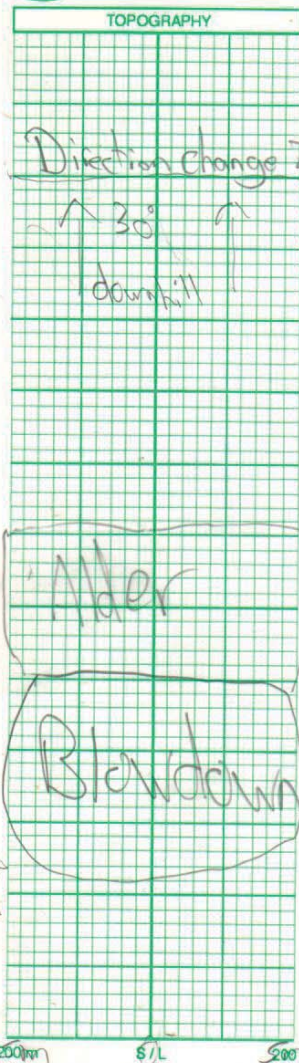
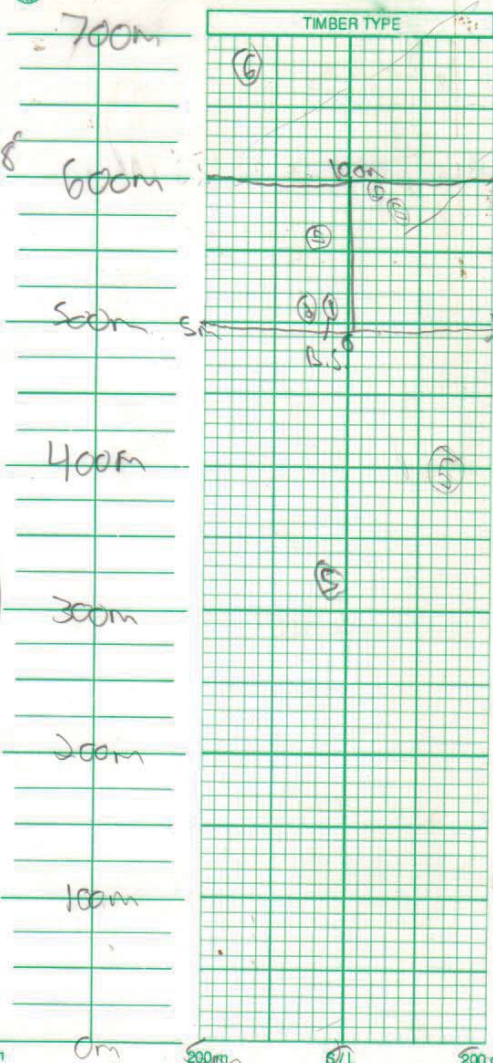


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COMPASS AND TRAVERSE



C.P. No.	PHI-020	BLOCK	
DIRECTION	1940	START OF STRIP	0m - 20m
JOB NO.	Seneca walk thru	DATE	Nov. 18/15
CREW	Dailen, V, Norgan, D, Satten, M		
REMARKS			

FS 375 HVA 92/01

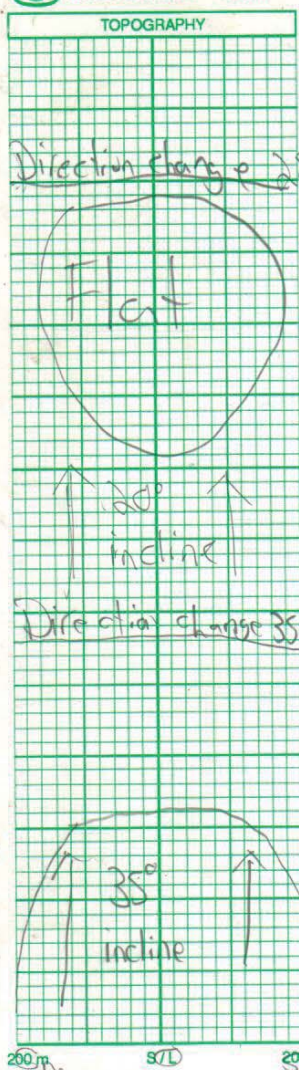
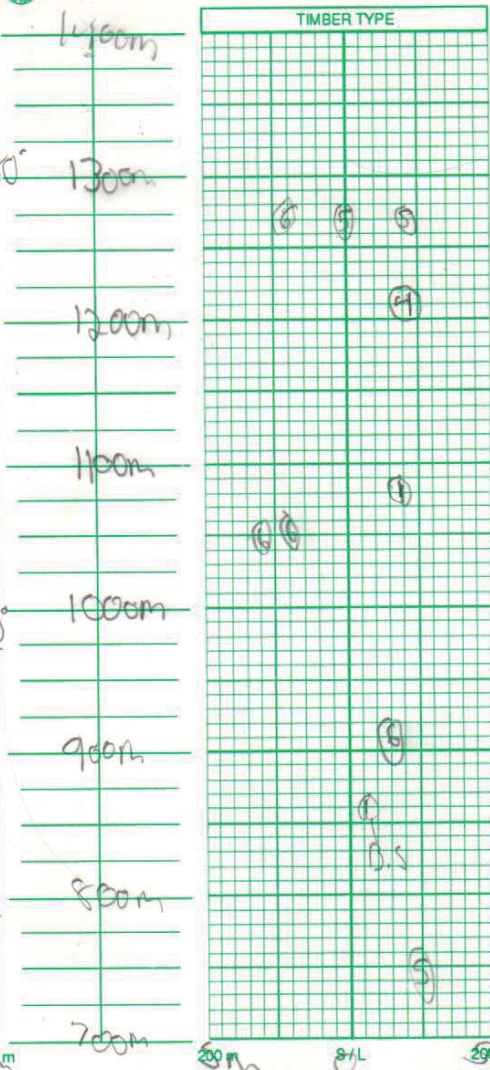


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COMPASS AND TRAVERSE



C.P. No.	PHI-020	BLOCK	
DIRECTION	78° (375m) 30° (330)	START OF STRIP	20m - 1400m
JOB NO.	Seneca walk thru	DATE	Nov. 18/15
CREW	Dailen, V		
REMARKS			

FS 375 HVA 92/01



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COMPASS AND TRAVERSE

TOPOGRAPHY

200m 50m 200m

End

Flat

Direction change 25°

TIMBER TYPE

200m 50m 200m

2100m

2000m

1900m

1800m

1700m

1600m

1500m

1400m

C.P. No. PHI-020	BLOCK	START OF STRIP 400m-2100m
DIRECTION 280° (250m) 25° (230m)	DATE NOV. 18/15	
JOB NO. Sengre walkthru		
CREW Dallen-V		
REMARKS		