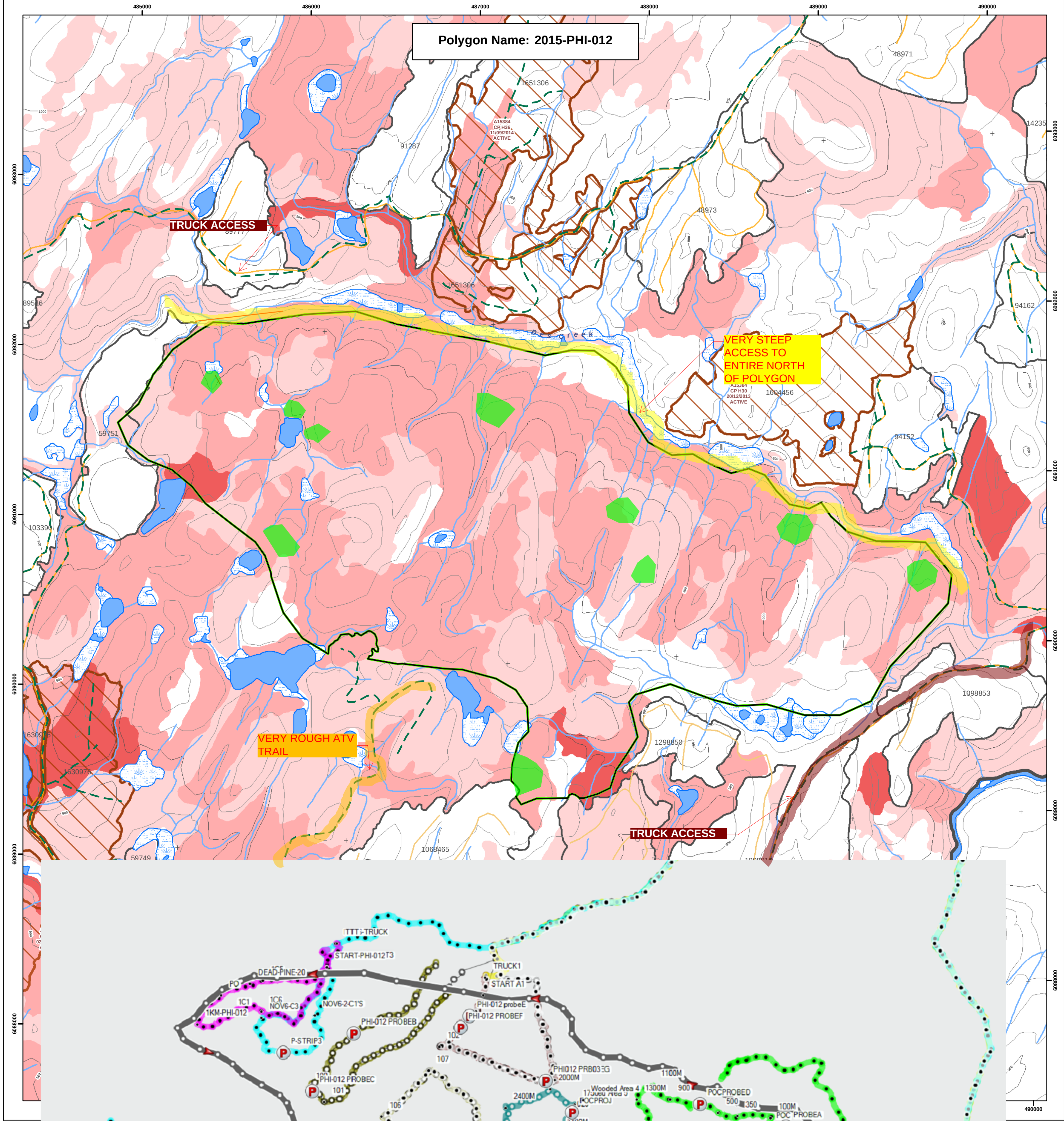




**Spruce
Field**

Polygon

Landscape

Unit/BMU

Region:

District:

Mapsheet

Hectares:

Scale:

When plotted

Coordinate

System:

Datum:

Date Drawn

Drawn By

**SENECA ENTERPRISES LTD.**

PO BOX 1902, PRINCE GEORGE, BC, V2L 5E3
 Phone: (250) 561-0890, Fax: (250) 564-3275

WALKTHROUGH DISTANCE:

25300

SPRUCE BARK BEETLE REPORT

FH16DMK010

POLYGON: **2015-PHI-012**

HECTARES:

744.43

ESTIMATED INFESTED PIXELS FROM

WALKTHROUGH (Code 1-4)

14 5.5%**SUMMARY OF CURRENT INFESTATION**

Walkthrough of large polygon identifies only 14 infested pixels with recent attack. These attacks are mainly Code 1's on a 2 year cycle and are very scattered throughout polygon. Stand has many large Diameter Spruce Trees with average roughly 45cm within areas probed. This has led to a high Sanitation Rating as the stand itself is at a low density and with the largest trees infested, lead to a high Sanitation Rating overall. That said, a few of the attacked areas are more intense than the others but almost all of the attacked trees are represented in the Probe Lines and is very scattered within Polygon.

LIGHT-MODERATE VERY SCATTERED ATTACK

ACCESS

Very rough Quad 1km in South. Extreme slope 0-70% runs along entire north of polygon. On East, main road, then walk in 200 meters

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

Very diverse stand, areas where open canopy large spruce. North portion of Polygon is very steep, pockets of drainages run throughout polygon with varied slopes. Overall, polygon 60% Spruce, 40% Balsam Aspen.

SIZE, BOUNDARY and PATTERN OF INFESTATION

With such a large polygon, difficult to stratify as only 5% of Pixels are infected. Were each area stand alone, some are more concentrated than others with higher attack densities. Sanitation rating is high from the 11 probe lines, mainly due to the large Spruce and the open canopy as many of the infected areas come in open, lower density, large DBH spruce stands.

INCIDENCE AND SEVERITY OF ATTACK

Where attack is, mainly code 1's on a 2 year cycle, it is of a moderate attack density. It varies but mostly large DBH Spruce trees infested. Very patchy scattered attack as polygon very large.

RISK OF BEETLE SPREAD

MODERATE Infestation will continue to move within Polygon as very large. North boundary is very steep with Swamps along the edge of the polygon and don't see little risk of it moving too far north. Will continue to develop within polygon.

ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES

Access is poor for the most part as such a large polygon. Access from the north limited, slopes and wet areas throughout the polygon and varies.

RECOMMENDATIONS**OPTION 1****MONITOR BAIT.**

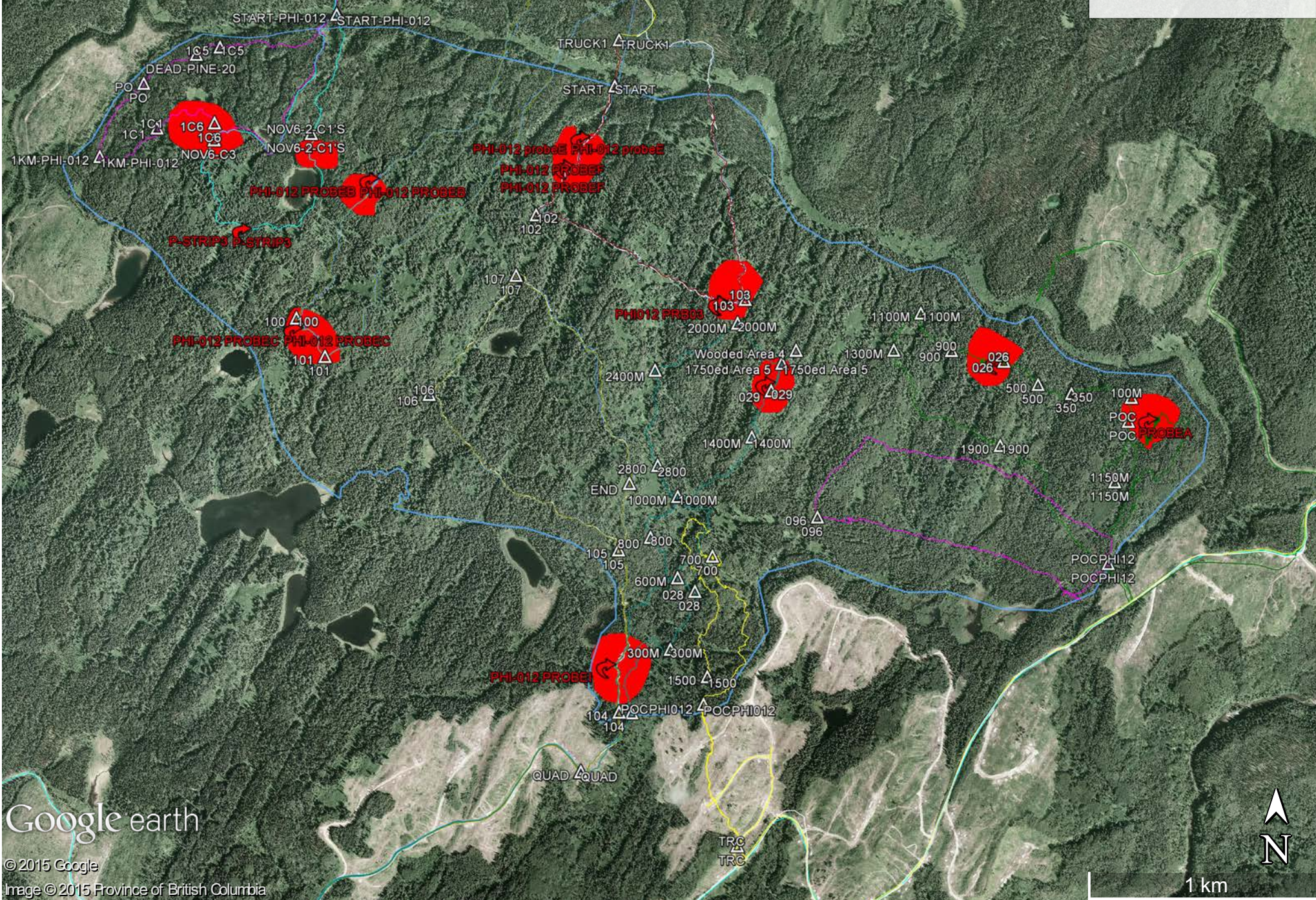
With polygon so large, individual pixels or probed attacked areas should use some kind of treatment. Were any of these areas stand alone, would recommend each one perhaps a different treatment. With access so poor and such a large polygon, may be best to Bait areas identified with attack and monitor polygon by scheduling a more detailed walkthrough 2016. Much of the attack are Code 1's on a two year cycle and another walkthrough broken apart into smaller units, may help determine where action is most appropriate. There will be a need to identify better access points in order to treat these areas where needed.

OPTION 2**PROBE**

May need to stratify separate areas for a probe, but not sure whether harvesting or trap trees are a viable option or available, especially for trees located in the north of the polygon on the steep slope. Would require considerable efforts to get equipment through, although from the south there are some access points that could be extended.

SPRUCE BEETLE WALKTHROUGH

 PROBE LINES
 ATTACK AREAS



Summary						
2015-PHI-012	HEC	744.43	METERS WALKED	25300	% TRAVERSED	3.4%
PIXELS COVERED BY WALKTHROUGH	253	INFESTED PIXELS	14	ESTIMATED % OF BLOCK INFESTED (From Walk through)		5.5%

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	23.1	0.0	0.0	0.0	0.0	0.0	0.0	108.9
25.1-30.0	5.3	42.4	0.0	0.0	0.0	0.0	0.0	2.7	222.6
30.1-35.0	7.1	120.7	14.2	0.0	0.0	0.0	14.2	0.0	355
35.1-40.0	9.4	197.4	28.2	4.7	0.0	0.0	9.4	0.0	460.6
40.1-45.0	11.6	220.4	46.4	0.0	11.6	0.0	23.2	0.0	243.6
45.1-50.0	13.8	193.2	41.4	0.0	0.0	0.0	27.6	0.0	262.2
50.1-55.0	16.2	210.6	16.2	8.1	16.2	0.0	48.6	0.0	48.6
55.1-60.0	18.7	243.1	18.7	0.0	0.0	0.0	18.7	0.0	149.6
60.1 +	25.3	506	202.4	0.0	25.3	12.7	25.3	0.0	126.5
TOTALS	2372.6	1756.9	367.5	12.8	53.1	12.7	####	2.65	1977.6

TABLE 4- Spruce Beetle Attack Density and Larval Density Rating			
MEAN NO. OF ENTRANCE HOLES PER 225 cm2 PHLOEM SAMPLE	< 1 LOW Attack Density 1.0- 1.9 MOD Attack Density 2.0 - 3.9 HIGH Attack Density	MEAN NO. OF LIVING LARVAE PER 225 cm2 PHLOEM SAMPLE	< 4.9 LOW Mean Larval Density 5.0 - 14.9 MOD Mean Larval Density 15-24.9 HIGH Mean Larval Density
3.06	< 3.9 SEVERE Attack Density	4.50	>24.9 EXTREME Mean Larval Density

TABLE 2- Spruce Beetle Management Options after Walkthrough					
% 2015 ATTACK	16.0%	##	SANITATION AND SALVAGE HARVEST PRIORITY RATING		
% 2014 ATTACK	2.8%	##	LIGHT	0-599	1072.5
% 2013 ATTACK	7.2%	##	MODERATE	600-999	
% HOST IN STAND	54.5%	##	HEAVY	1000+	
				RECOMMEND CRUISING/ LOGGING	

FROM 11 PROBE LINES TAKEN, ALL OF WHICH HAD ATTACKED TREES

SUMMARY OF ALL CARDS FS1111						NUMBER OF CARDS				11	
ACCESS -		Very rough Quad 1km in South. Extreme slope 0-70% runs along entire north of polygon. On East, main road, than walk in 200 meters									
POLYGON FEATURES -		Very diverse stand, areas where open canopy large spruce. North portion of Polygon is very steep, pockets of drainages run throughout polygon with varied slopes. Overall, polygon 60% Spruce, 40% Balsam Aspen.									
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	14	19	
25.1-30.0	5.3	8	0	0	0	0	0	1	16	26	
30.1-35.0	7.1	17	2	0	0	0	2	0	22	28	
35.1-40.0	9.4	21	3	1	0	0	1	0	23	26	
40.1-45.0	11.6	19	4	0	1	0	2	0	9	12	
45.1-50.0	13.8	14	3	0	0	0	2	0	15	4	
50.1-55.0	16.2	13	1	1	1	0	3	0	2	1	
55.1-60.0	18.7	13	1	0	0	0	1	0	3	5	
60.1 +	25.3	20	8	0	1	1	1	0	3	2	
TOTALS		132	22	2	3	1	12	1	107	123	
BARK SAMPLES 15 cm x 15 cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE ADULTS	NO. CALLOW	FRESH (GREEN) BLOWDOWN					
						Attacked		Unattacked			
						Yr		Yr ____			
18	55	3	81	0	20	0		0	0	0	

SIZE, BOUNDARY AND PATTERN OF THE INFESTATION

With such a large polygon, difficult to stratify as only 5% of Pixels are infected. Were each area stand alone, some are more concentrated than others with higher attack densities. Sanitation rating is high from the 11 probe lines, mainly due to the large Spruce and the open canopy as many of the infected areas come in open, lower density , large DBH spruce stands.

INCIDENCE AND SEVERITY OF THE INFESTATION

Where attack is, mainly code 1's on a 2 year cycle, it is of a moderate attack denisty. It varies but mostly large DBH Spruce trees infested. Very patchy scattered attack as polygon very large.

RISK OF BEETLE SPREAD

MODERATE Infestation will continue to move within Polygon as very large. North boundary is very steep with Swamps along the edge of the polygon and don't see little risk of it moving too far north. Will continue to develop within polygon.

ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES

Access is poor for the most part as such a large polygon. Access from the north limited, slopes and wet areas throughout the polygon and varies.



BEETLE PROBE CARD

PROB3 1006

LOCATION	0485565 6091242	ELEVATION	910	LATITUDE		PAGE	1	OF	1	
BEARING	270°	STRIP LINE NO	STRIP 3	STRIP WIDTH	10	DISTANCE	100	BEETLE SPECIES	☒ SB ☐ MPB ☐ DFB	
DIAMETER CLASS	SURFACE AREA FACTOR	NUMBER OF HEALTHY HOSTS	BARK BEETLE CODE BY YEAR OF ATTACK						OTHER TREE SPECIES	
									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		18							15	
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 ATTACK -										
CREW NAMES JAMES KELLY						DATE Y M D 15 11 6				

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



BEETLE PROBE CARD

LOCATION	0485573 6113312	ELEVATION	709m	LATITUDE		PAGE	1	OF	1	
BEARING	260°	STRIP LINE NO	1	STRIP WIDTH	10m	DISTANCE	100m	BEETLE SPECIES	☒ SB ☐ MPB ☐ DFB	
DIAMETER CLASS	SURFACE AREA FACTOR	NUMBER OF HEALTHY HOSTS	BARK BEETLE CODE BY YEAR OF ATTACK						OTHER TREE SPECIES	
									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				
1a	2	1	4	1	5					
1b	3	1	5	2	1					
COMMENTS										
CREW NAMES Dailen V						DATE Y M D 2015 11 06				

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

SPRUCE BEETLE PROBE CARD

LOCATION 104 0489423 049423		PHI-012		PAGE 1 OF 1						
BEARING 205°		DISTANCE 100m		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	..							BI	1A
25.1 - 30.0	5.3	.								
30.1 - 35.0	7.1	..	..							
35.1 - 40.0	9.4	..	.	.						
40.1 - 45.0	11.6	..	0							
45.1 - 50.0	13.8	..								
50.1 - 55.0	16.2									
55.1 - 60.0	18.7									
60.1 +	25.3									
TOTALS		20	4	1					6	137
BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (GREEN) BLOWDOWN				
						Attacked	Unattacked			
North	.	0	0	0	0					
South	..	0	0	0	0					
COMMENTS 0 - Bark Sample @ 1.4m height										
CREW NAMES Aaron Colebank						DATE Y M D 2015 11 06				

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

PHI-012

SPRUCE BEETLE PROBE CARD

LOCATION 0486108 6091451		PAGE 1 OF 1								
BEARING 218°		DISTANCE 200m								
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								BLS	ASP
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			
1A	6	0	14	0	1					
1B	3	0	1	0	0					
COMMENTS B.S. tree, 3 trees coming out of 1 stem / root										
CREW NAMES Steffen Dailen Norson						DATE Y M D 2015 11 11				

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

PHI-012

SPRUCE BEETLE PROBE CARD

LOCATION 0485767		6070821		PAGE 1 OF 1					
BEARING 126°		DISTANCE 100m		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								BSL
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		
1A	8	3	7	0	3				
1B	4	0	2	0	1				
COMMENTS probe ended + 8cm due to huge elder patch									
CREW NAMES Darken Steffen Norjon						DATE Y M D 15 11 11			

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

SPRUCE BEETLE PROBE CARD

LOCATION PHI-012 60486765 Probe D		PAGE OF							
BEARING 273		DISTANCE 100m							
STRIP WIDTH 10									
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								BSL
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		
North									
South									
COMMENTS BS hit hard by woodp. Bark Sample									
CREW NAMES Aaron Colebank (Certified Spruce Beetle Surveyor)						DATE Y M D 2015 11 11			

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

SPRUCE BEETLE PROBE CARD

LOCATION 0487580		6090926		PAGE 3 OF						
BEARING 74°		DISTANCE 100m		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								BL ASP	
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		5	1					2	11	12
BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (GREEN) BLOWDOWN				
						Attacked	Unattacked			
1A	3	0	1	0	1	0	0	0		
1B	1	0	4	0	0	0	0	0		
COMMENTS NOW MOSTLY SEE OTHER TREE SPECIES IN THIS AREA										
CREW NAMES NORJON, DAILEN, STEFFEN						DATE Y M D 15 11 13				

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

SPRUCE BEETLE PROBE CARD

LOCATION 0486998		6091636		PAGE 1 OF						
BEARING 216°		DISTANCE 100m		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								BL ASP	
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		5	1					1	15	13
BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (GREEN) BLOWDOWN				
						Attacked	Unattacked			
1A	10	0	5	0	2	0	0	0		
1B	6	0	2	0	2	0	0	0		
COMMENTS										
CREW NAMES DAILEN, NORJON, STEFFEN						DATE Y M D 15 11 13				

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

SPRUCE BEETLE PROBE CARD

LOCATION 0486928		6091512		PAGE 2 OF					
BEARING 210°		DISTANCE 100m		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								BL AS
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		14	1					2156	
BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (GREEN) BLOWDOWN			
						Attacked	Unattacked		
1A	3	0	6	0	0	0	0		
1B	4	0	2	0	5	0	0		
COMMENTS START of this probe is on a slope half way down the hill. 70° slope									
CREW NAMES NORTON DAILEN STEFFEN						DATE Y M D 15 11 13			

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

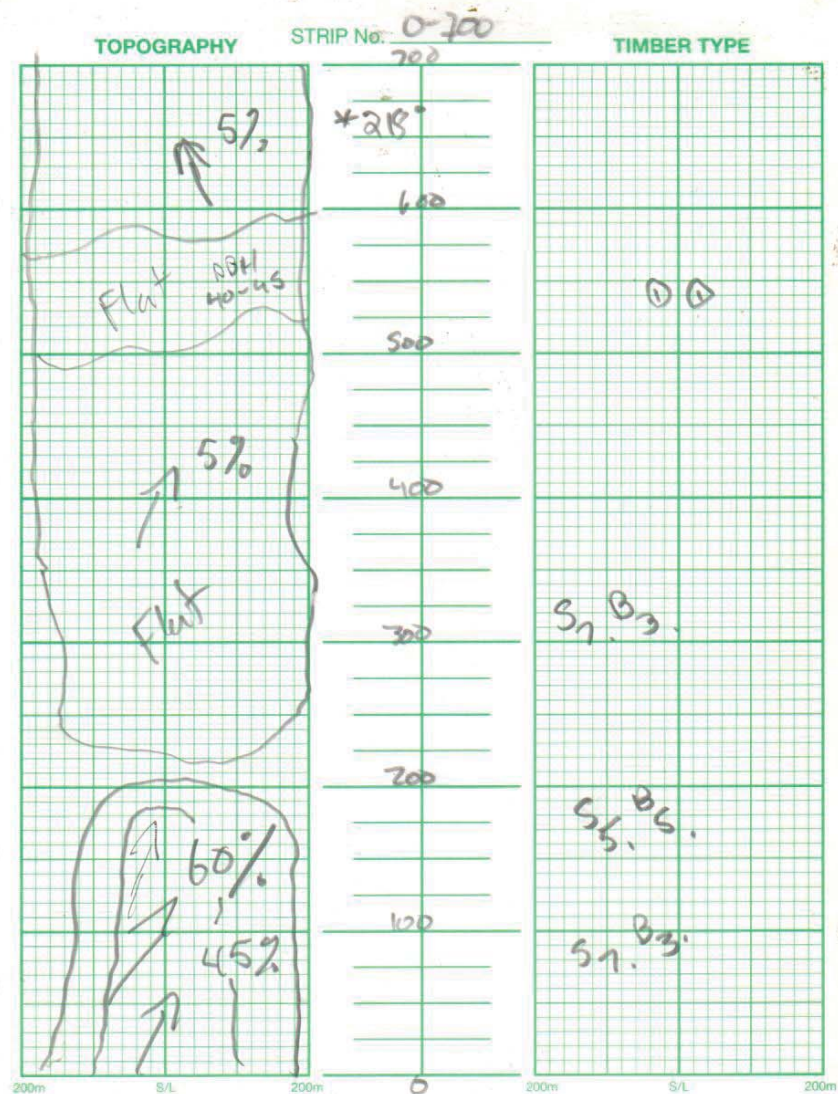
SPRUCE BEETLE PROBE CARD

LOCATION 0487229 6090585		PHI-012 Probe J		PAGE OF					
BEARING 11		DISTANCE 100m		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								AB
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		6						113023	
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									
CREW NAMES Aaron Colebank						DATE Y M D 2015 11 16			

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

SPRUCE BEETLE PROBE CARD

LOCATION 0487102		6089405		PAGE 1 OF						
BEARING 35°		DISTANCE 100m		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									BL ASP
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			
1A	4	0	7	0	0	0	0			
1B	5	0	1	0	0	0	0			
COMMENTS										
CREW NAMES NORTON, DAILEN STEFFEN						DATE Y M D 15 11 16				



STRIP NO.: 3 DIRECTION: 206°-218°

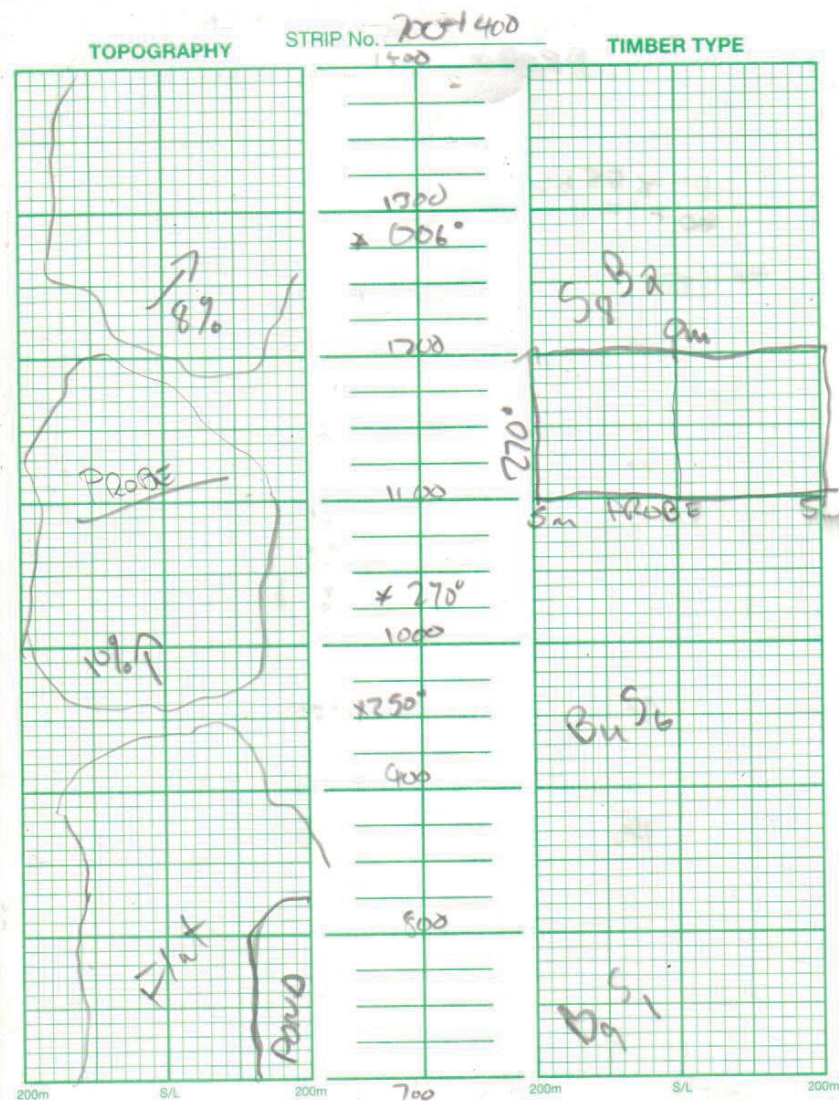
START STRIP: 0-700m

JOB NO.: PHI-012 DATE: Nov 6 / 2015

CREW: JAMES KELLY

REMARKS:

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



STRIP NO.: 3 DIRECTION: 214°-250°-270°-006°

START STRIP: 700

JOB NO.: PHI-012 DATE: Nov 6 / 2015

CREW: JAMES KELLY

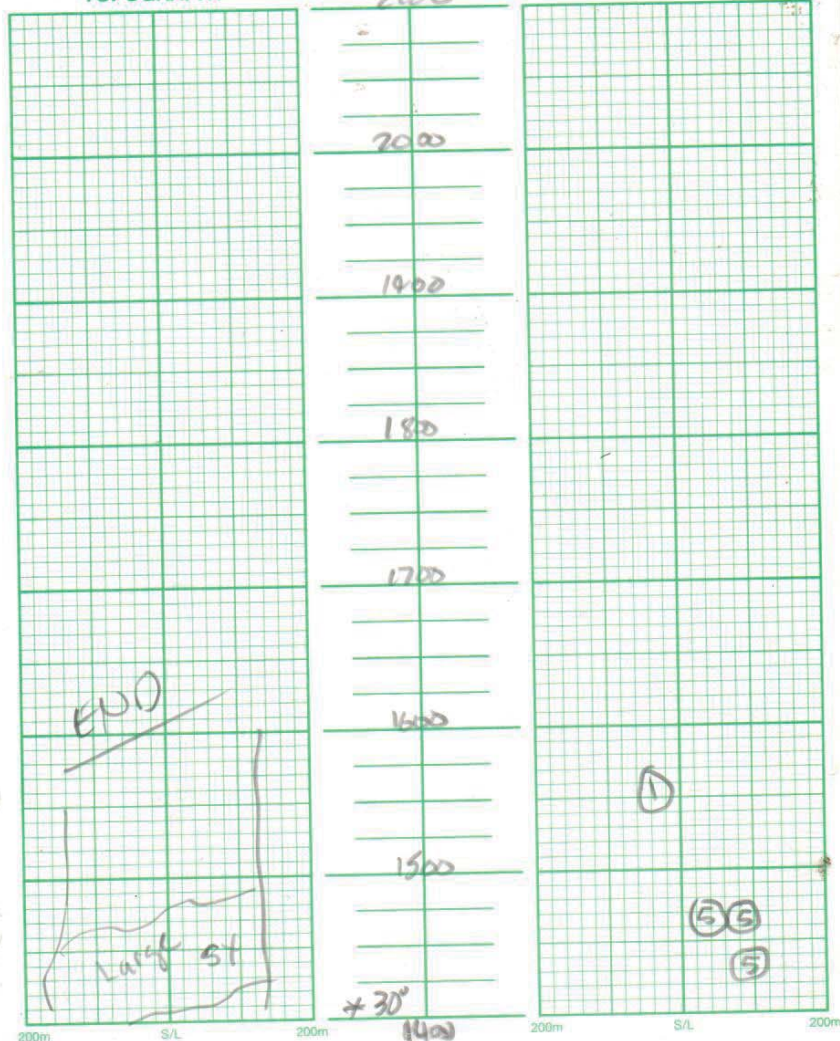
REMARKS:

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

TOPOGRAPHY

STRIP No. 1400-2100

TIMBER TYPE



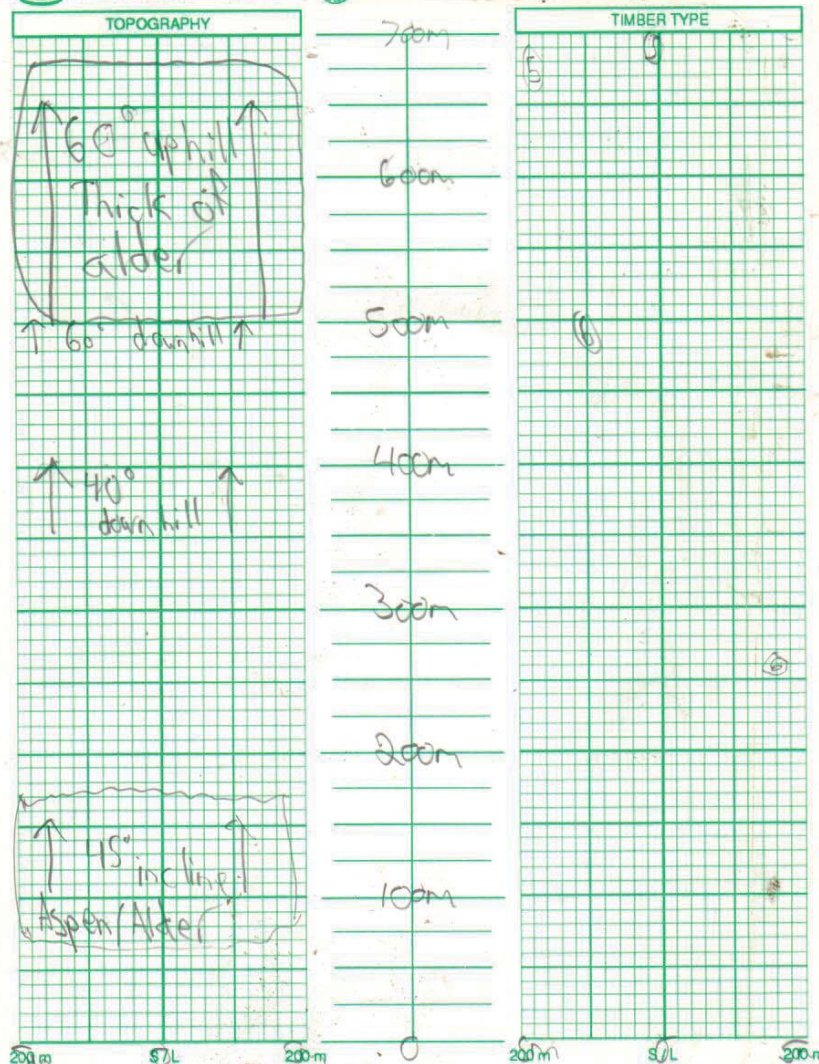
STRIP NO.: 3 DIRECTION: 006°-30°
 START STRIP: 1400-2100
 JOB NO.: PH1-012 DATE: Nov 6 / 2015
 CREW: JAMES KAY
 REMARKS:



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Province of
British ColumbiaMinistry of
Forests

COMPASS AND TRAVERSE



C.P. No. PH1-012 BLOCK
 DIRECTION 096° START OF STRIP 0m-700m
 JOB NO. Sereen walkthrough DATE Nov. 6/15
 CREW Dallen V
 REMARKS

FS 375 HVA 92/01

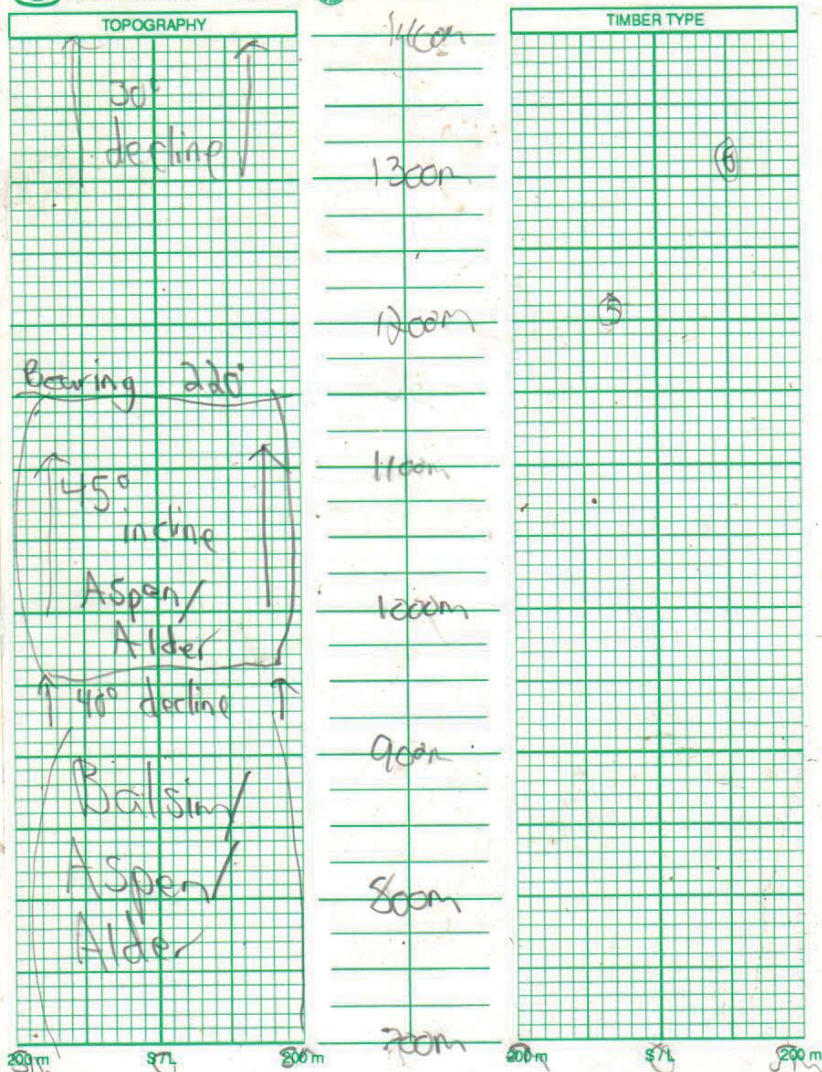


Province of
British Columbia

Ministry of
Forests



COMPASS AND TRAVERSE



C.P. No.	PHI-012	BLOCK	
DIRECTION	220	START OF STRIP	700m - 1400m
JOB NO.	Seneca walkthrough	DATE	Nov. 6/15
CREW	Drilen, V		
REMARKS			

FS 375 HVA 92/01

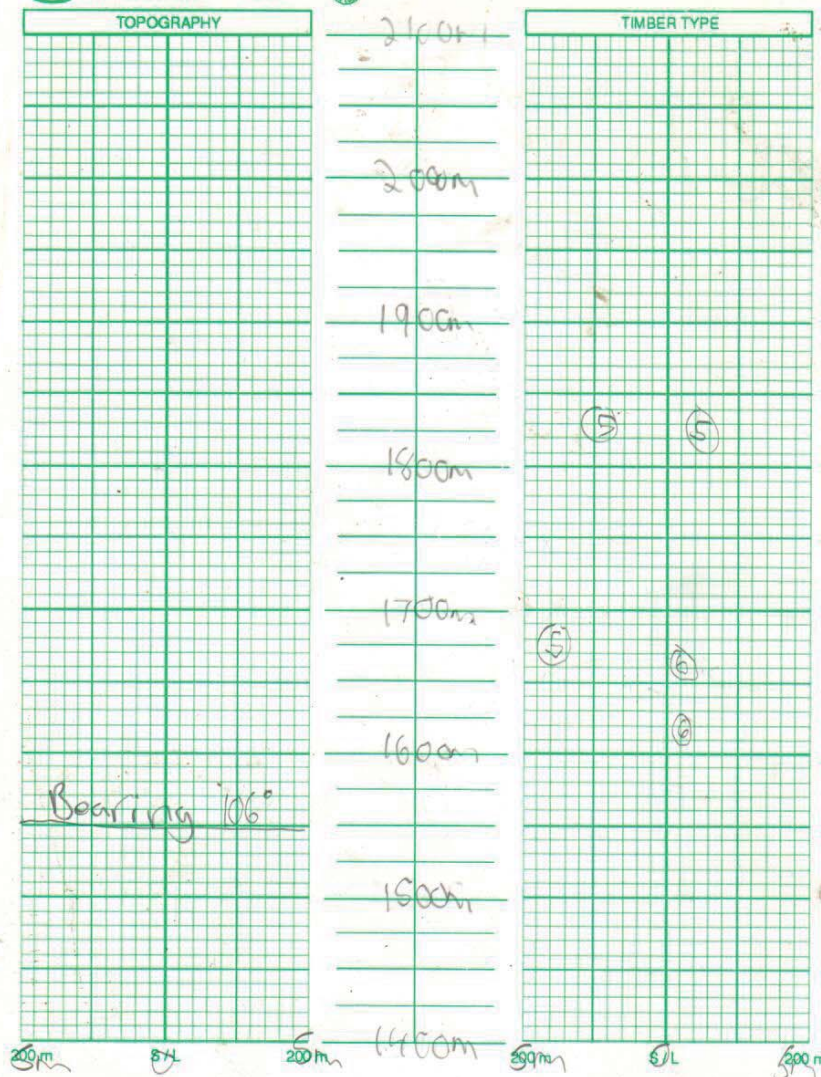


Province of
British Columbia

Ministry of
Forests



COMPASS AND TRAVERSE



C.P. No.	PHI-012	BLOCK	
DIRECTION	106	START OF STRIP	1400m - 2600m
JOB NO.	Seneca walkthrough	DATE	Nov. 6/15
CREW	Drilen, V		
REMARKS			

FS 375 HVA 92/01



Province of
British Columbia

Ministry of
Forests



COMPASS AND TRAVERSE

TOPOGRAPHY

TIMBER TYPE

200 m	S/L	200 m	200 m	S/L	200 m
End					
2800m					
2700m					
2600m					
2500m					
2400m					
2300m					
2200m					
2100m					

C.P. No. PHI-012	BLOCK	
DIRECTION 106°	START OF STRIP 2800m - 2750m	
JOB NO. Seneca Walkthen	DATE Nov. 6/15	
CREW Dallen V		
REMARKS		

FS 375 HVA 92/01

TOPOGRAPHY

STRIP No. PHI-012

TIMBER TYPE

208° bearing @ 950m	950	
189° bearing	900	
205° bearing @ 850m	850	
* Scale change		
189° bearing	800	
275° bearing @ 700m	700	
40/30/30 SW/BI/AT	600	
60/40 SW/BI @ 500m	500	
70/20/10 AT/BI/SW	400	
15% slope		
40/40/20 AT/SW/BI	200	
12° bearing		
60/30/10 AT/SW/BI	0	

STRIP NO. PHI-012	DIRECTION: 12°
START STRIP: 104 0489203	6089812
JOB NO. PHI-012	DATE: Nov 6 th , 2015
CREW: Aaron Colebank	
REMARKS: Day One	

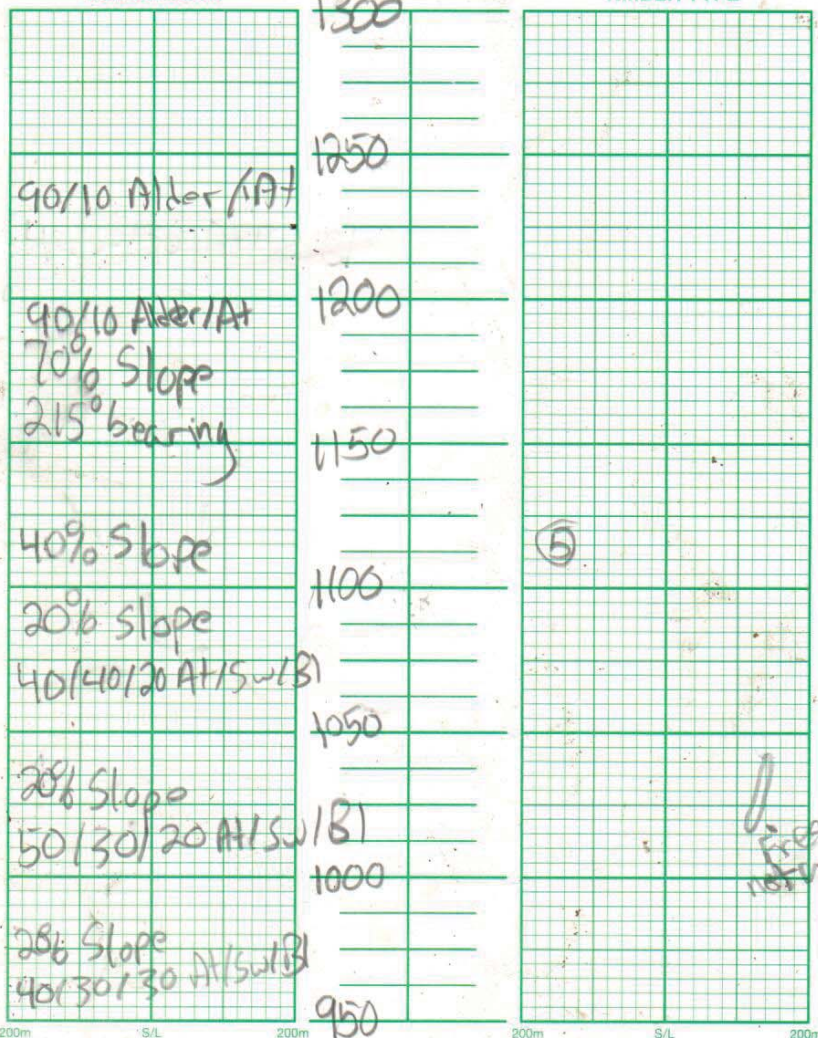


www.irlsupplies.com
Ph: 1-800-663-6843

TOPOGRAPHY

STRIP No.

TIMBER TYPE



STRIP NO.: _____ DIRECTION: _____
 START STRIP: _____
 JOB NO.: _____ DATE: _____
 CREW: _____
 REMARKS: _____

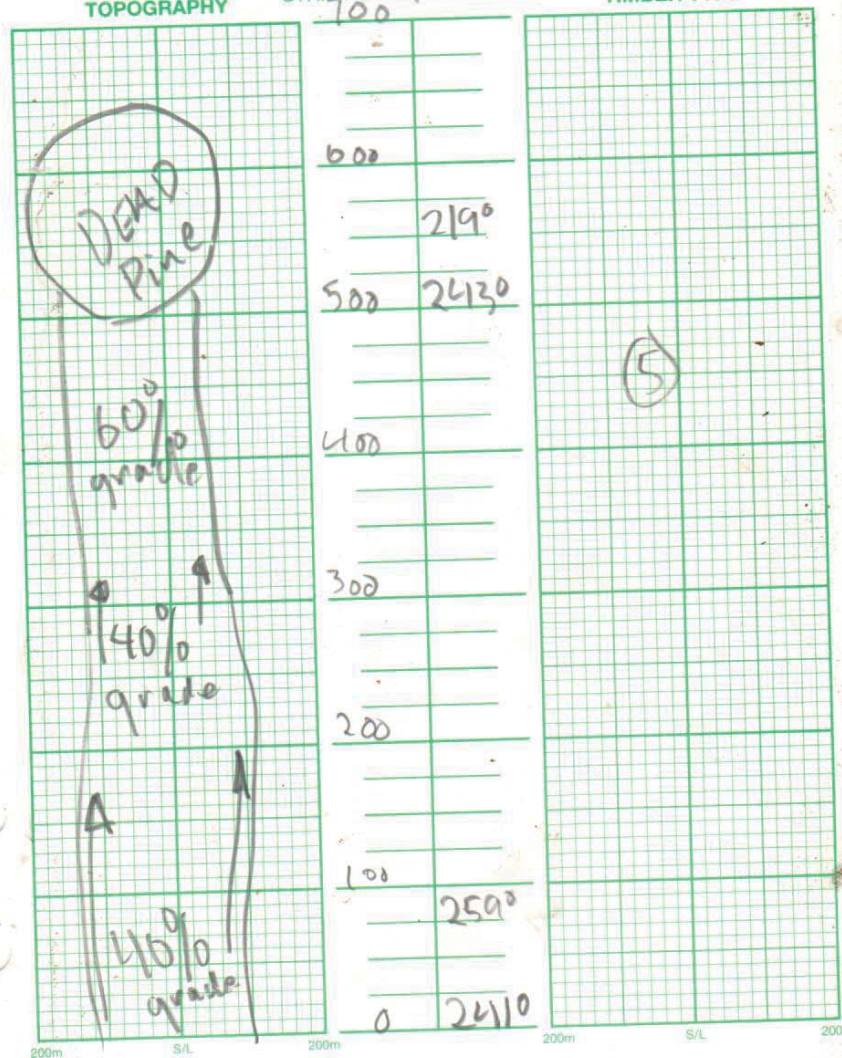


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TOPOGRAPHY

STRIP No. 1

TIMBER TYPE



STRIP NO.: 1 DIRECTION: 241°, 259°, 243°, 219°
 START STRIP: 0-700
 JOB NO.: PH1012 DATE: NOV 6, 15
 CREW: Pat Poirier
 REMARKS: _____

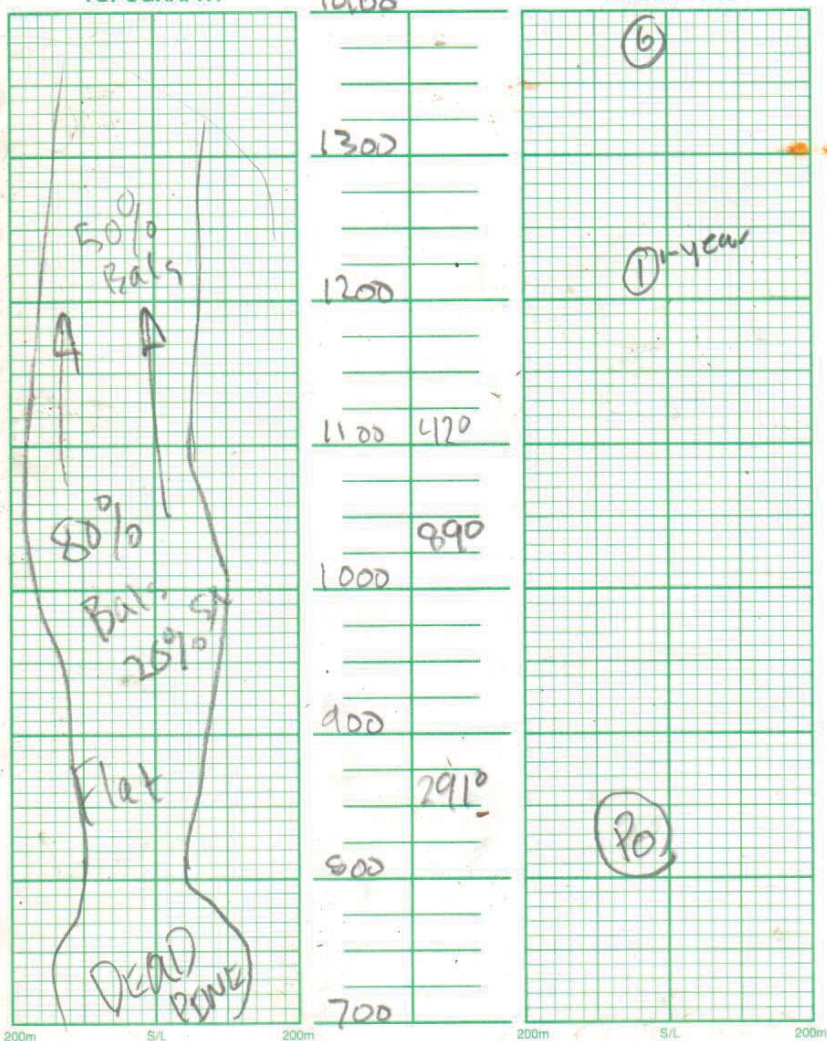


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TOPOGRAPHY

STRIP No. 1

TIMBER TYPE



STRIP NO.: 1

DIRECTION:

291° 89', 420'

START STRIP: 700-1400

JOB NO.: PH1-012

DATE: NOV 6, 15

CREW:

REMARKS:

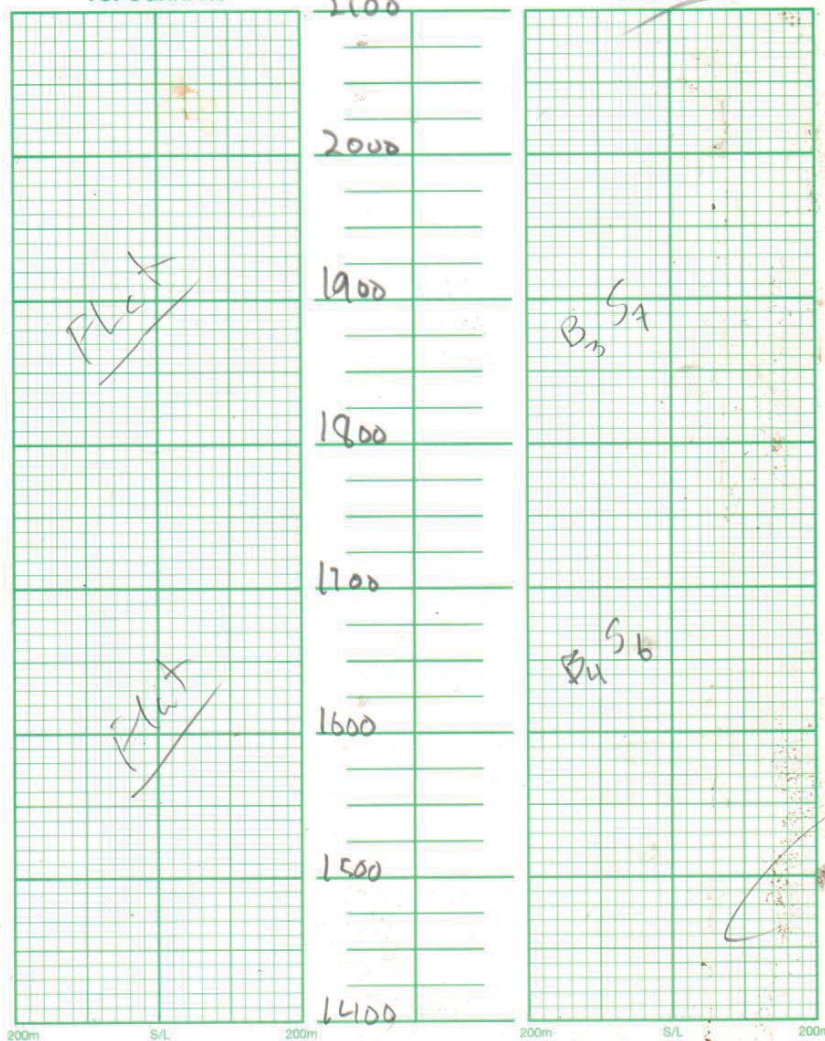


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TOPOGRAPHY

STRIP No. 1

TIMBER TYPE



STRIP NO.: 1

DIRECTION:

START STRIP: 1400-2100

JOB NO.: PH1 012

DATE: NOV 6, 15

CREW:

REMARKS:



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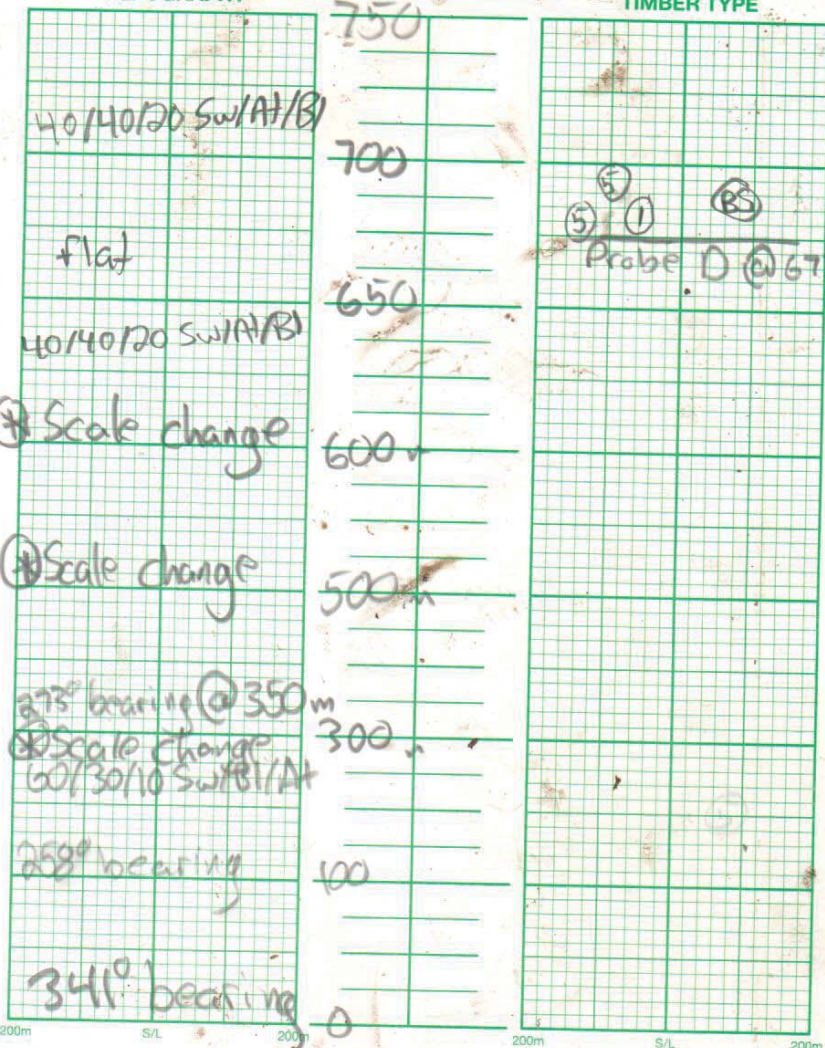
Date: 2

TOPOGRAPHY

STRIP No.

PHI-012

TIMBER TYPE



STRIP NO.: 3

DIRECTION:

341°

START STRIP:

1040489290 6090417

JOB NO.:

PHI-012

DATE:

Nov 11th, 2015

CREW:

Farron Colebank

REMARKS:



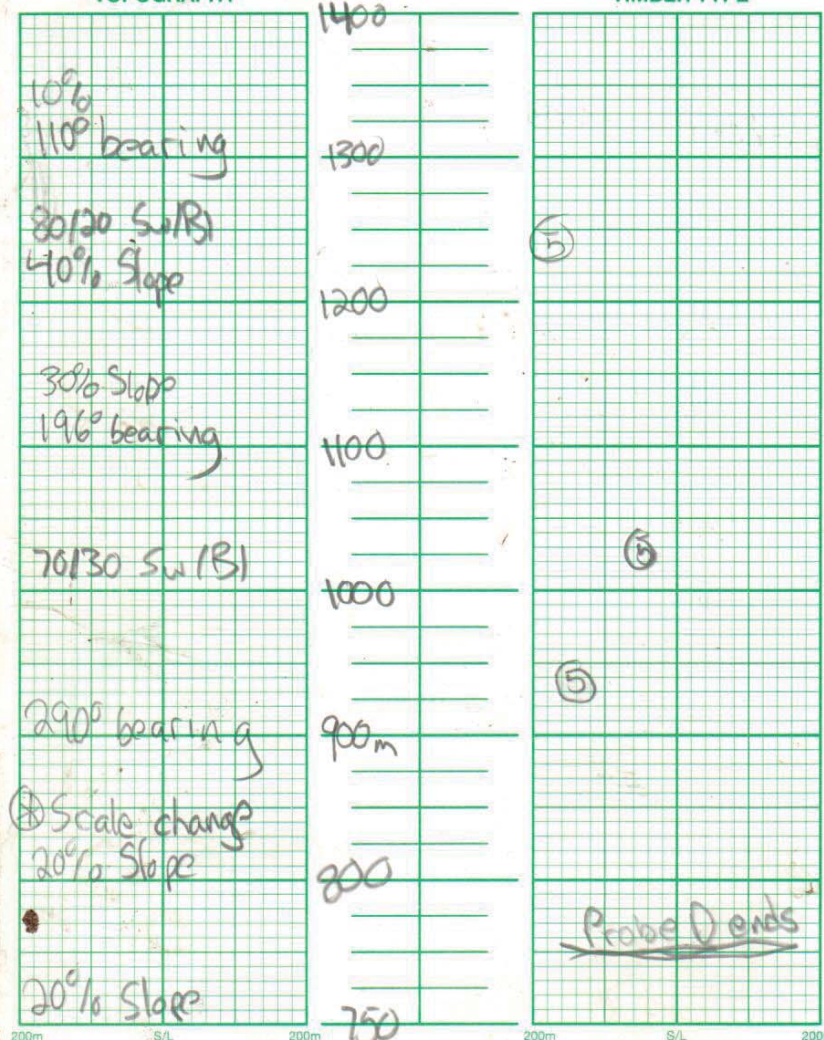
www.irlsupplies.com
Ph: 1-800-863-6843

TOPOGRAPHY

STRIP No.

PHI-012

TIMBER TYPE



STRIP NO.:

DIRECTION:

START STRIP:

JOB NO.:

DATE:

CREW:

REMARKS:



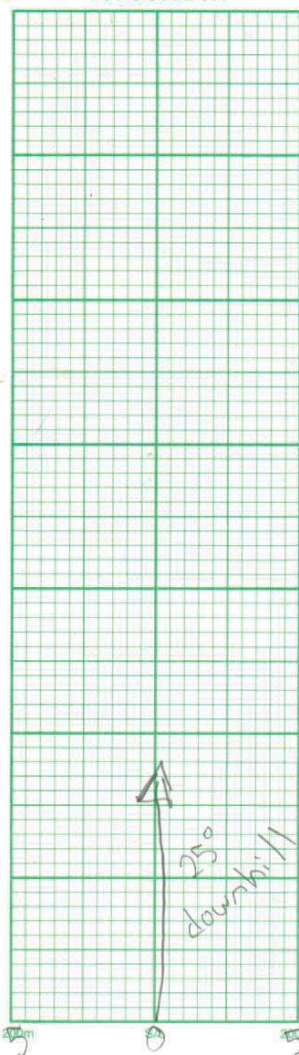
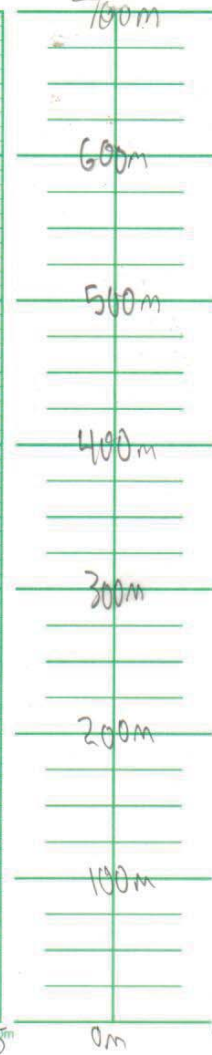
www.irlsupplies.com
Ph: 1-800-863-6843

TOPOGRAPHY

STRIP No.

Phi-012

TIMBER TYPE



STRIP NO.: Phi-012

DIRECTION: 219°

START STRIP: 0-700m

JOB NO.: Seneca Walkthrough DATE: Nov. 11/15

CREW: Dailen, Norgon, Steffen

REMARKS:



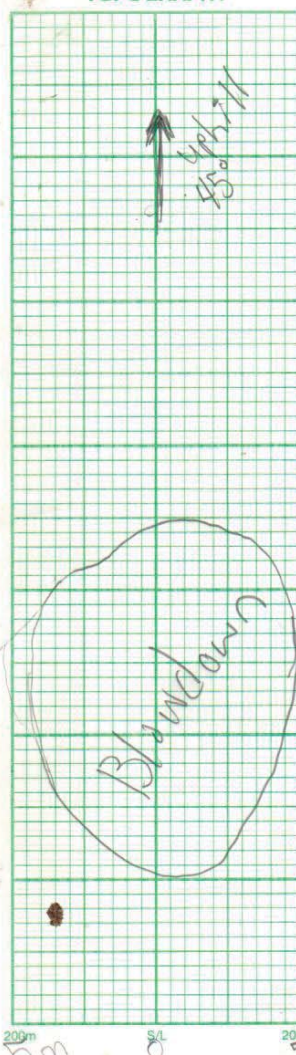
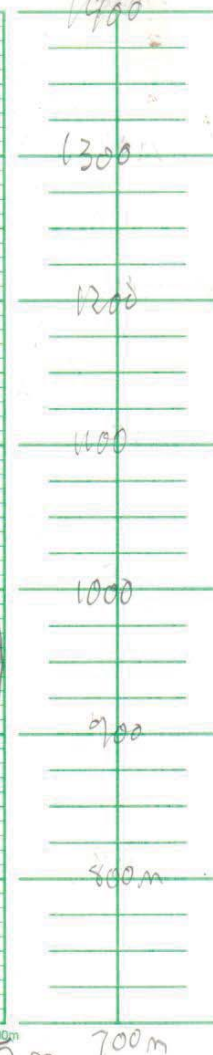
www.irisupplies.com
Ph: 1-800-663-6842

TOPOGRAPHY

STRIP No.

Phi-012

TIMBER TYPE



STRIP NO.: Phi-012

DIRECTION: 175°

START STRIP: 700-1400m

JOB NO.: Seneca Walkthrough DATE: Nov. 11/15

CREW: Steffen, Dailen, Norgon

REMARKS:

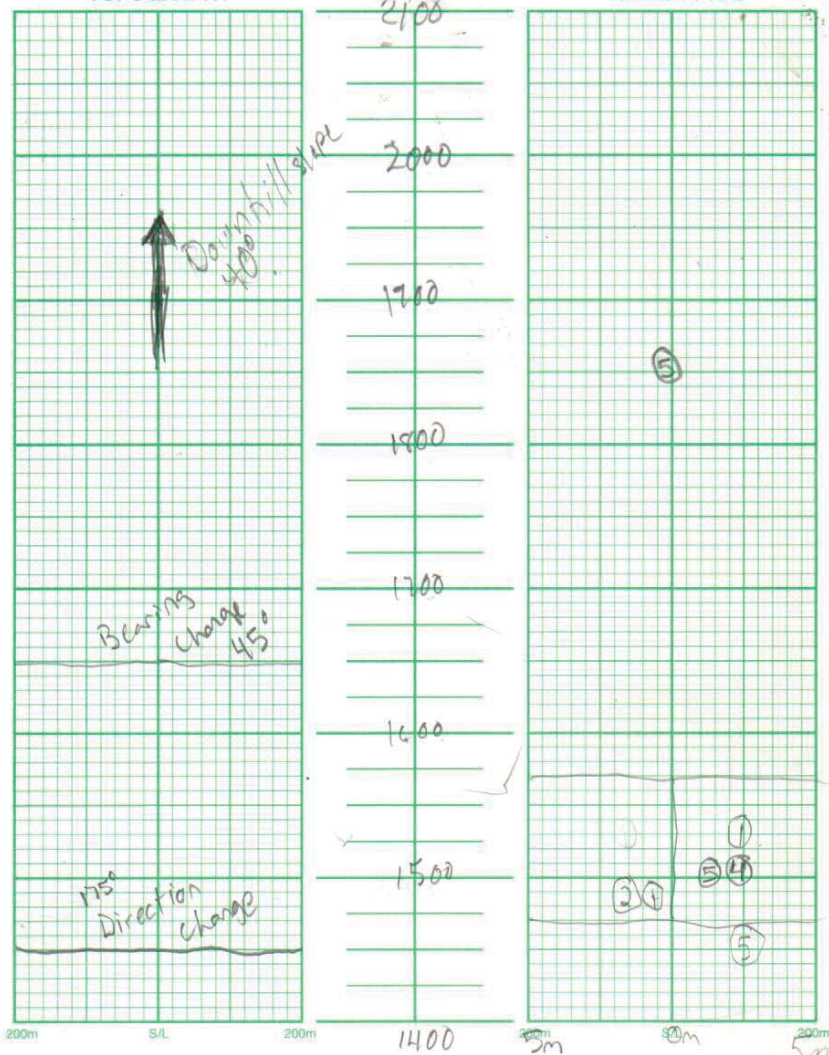


www.irisupplies.com
Ph: 1-800-663-6842

TOPOGRAPHY

STRIP No. phi-012

TIMBER TYPE



STRIP NO.: phi-012 DIRECTION: 45°
 START STRIP: 1400-2100 m
 JOB NO.: Sereca Walkthrough DATE: Nov. 11/15
 CREW: Steffen, Daiter, Norjon
 REMARKS: _____

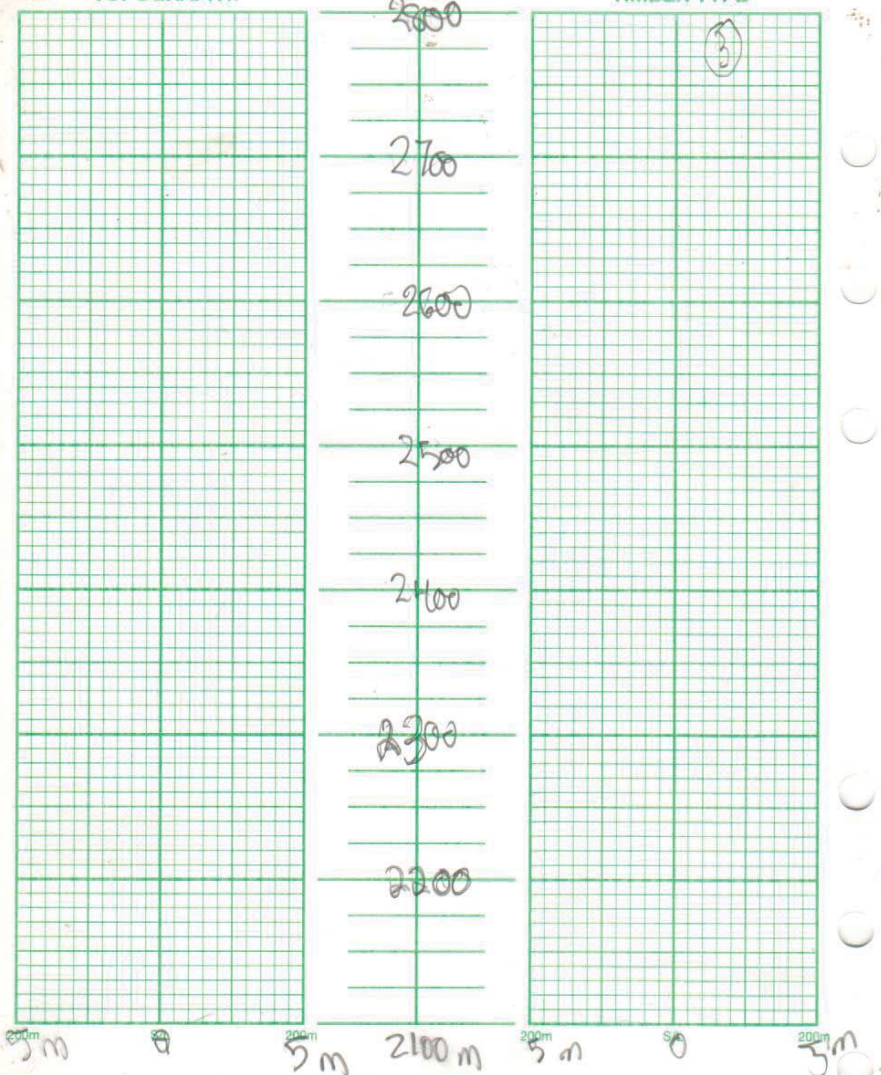


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 Ph: 1-800-663-6843

TOPOGRAPHY

STRIP No. phi-012

TIMBER TYPE



STRIP NO.: phi-012 DIRECTION: 45°
 START STRIP: 2100-2800 m
 JOB NO.: Sereca Walkthrough DATE: Nov. 11/15
 CREW: Steffen, Daiter, Norjon
 REMARKS: _____



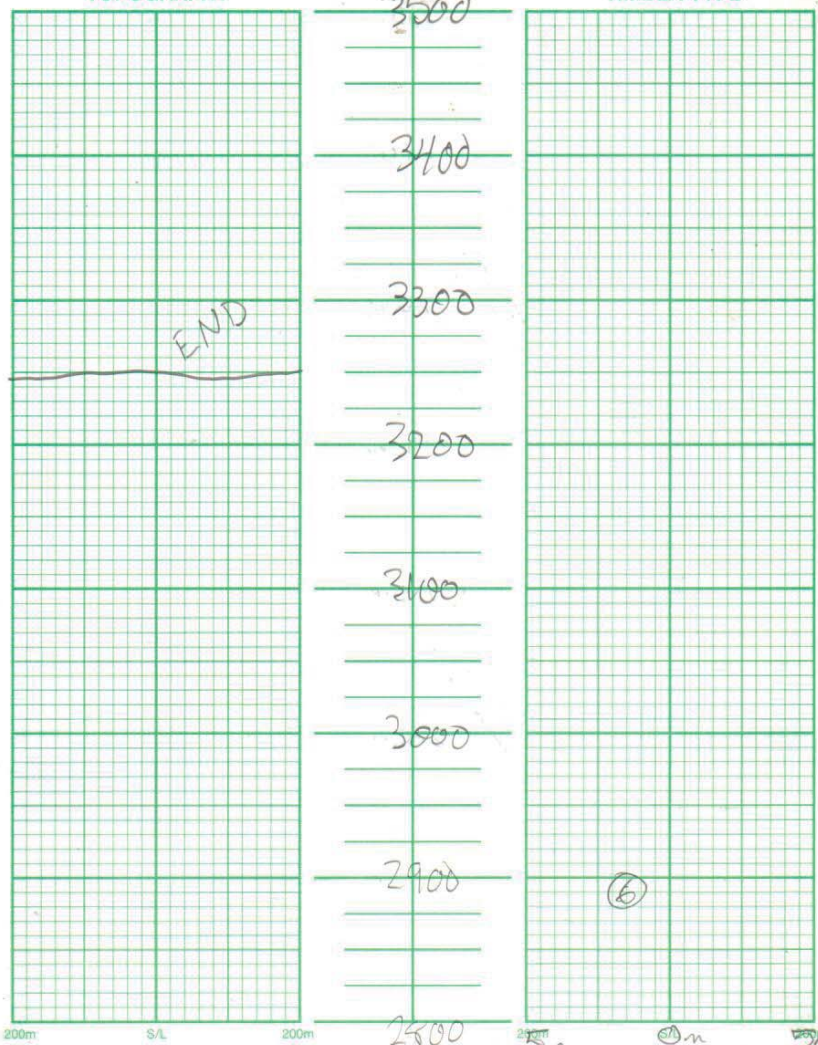
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TOPOGRAPHY

STRIP No.

phi-012

TIMBER TYPE



STRIP NO.: phi-012 DIRECTION: 45°

START STRIP: 2800-3250m

JOB NO.: Seneca Walkthrough DATE: Nov. 11/15

CREW: Dallen, Steffen, Norjon

REMARKS:

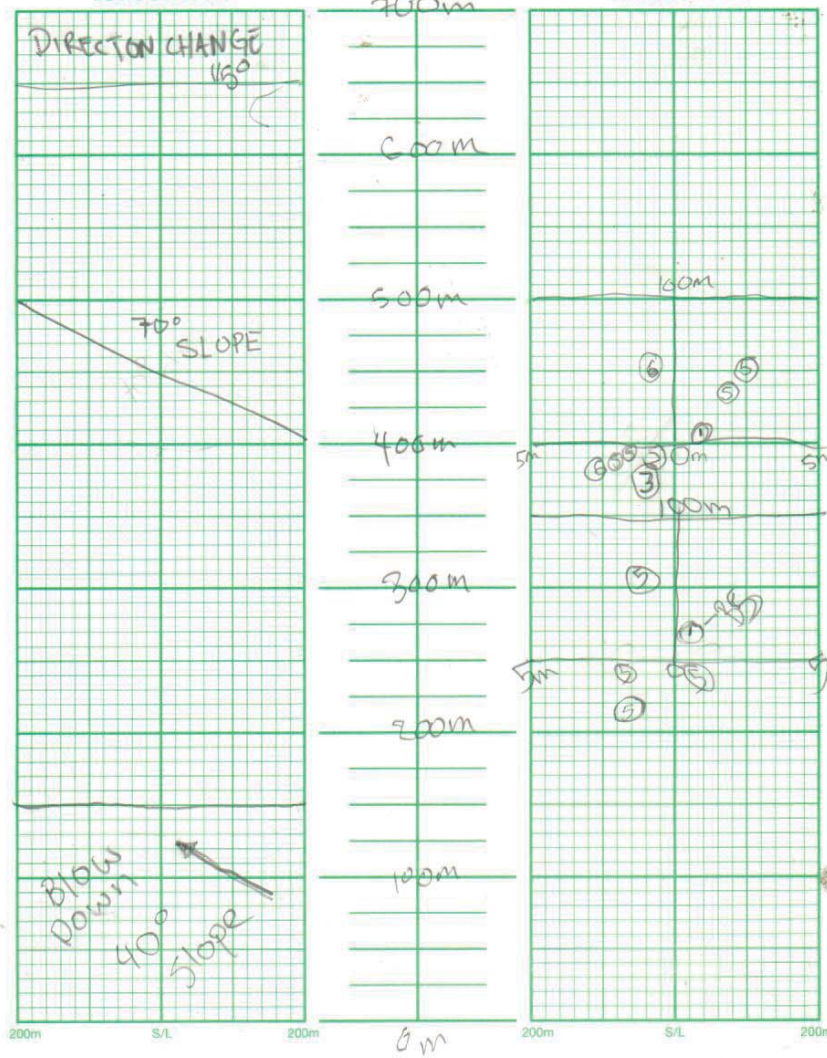

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TOPOGRAPHY

STRIP No.

PHI-012

TIMBER TYPE



STRIP NO.: PHI-012 DIRECTION: 208°

START STRIP: 0-700m

JOB NO.: SENECA WALKTHRU DATE: NOV 13, 2015

CREW: DALLAN NORJON, STEFFEN

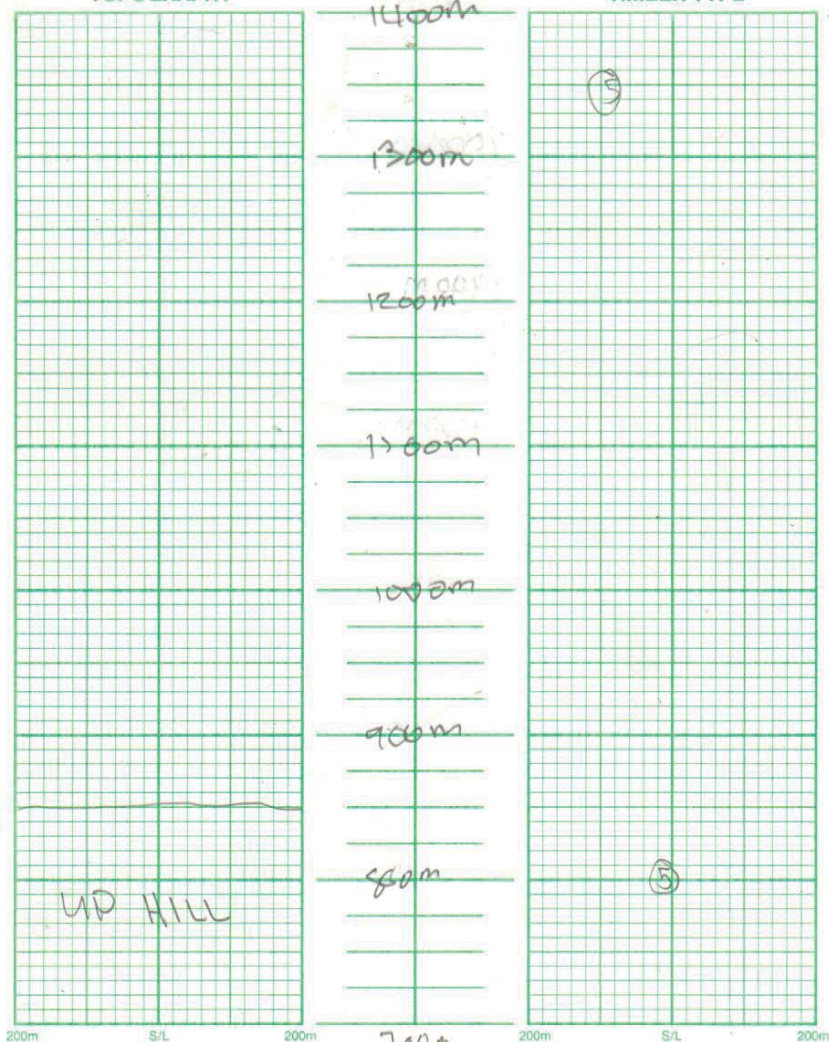
REMARKS:


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TOPOGRAPHY

STRIP No. PHI-012

TIMBER TYPE



STRIP NO.: PHI-012 DIRECTION: 115°

START STRIP: 700m - 1400m

JOB NO.: SENECA WALKTHRU DATE: NOV 13, 2015

CREW: NORTON, DAILEN, STEFFEN

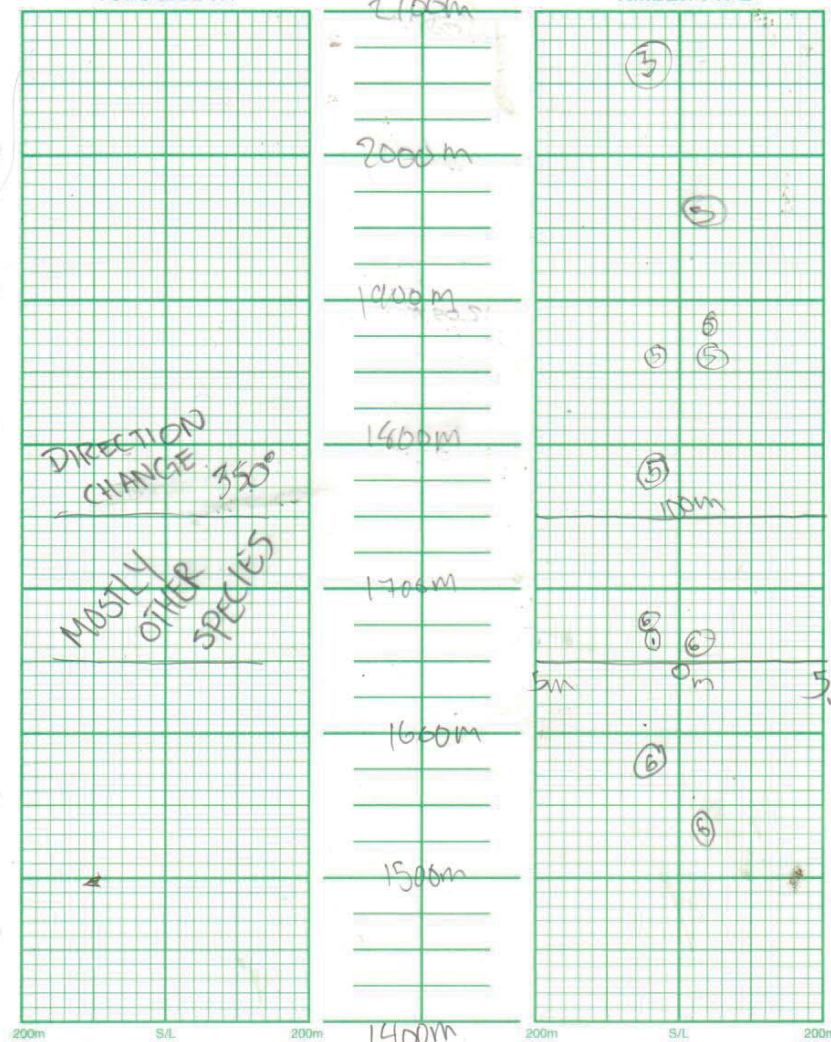
REMARKS:

www.irisupplies.com
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TOPOGRAPHY

STRIP No. PHI-012

TIMBER TYPE



STRIP NO.: PHI-012 DIRECTION: 115°

START STRIP: 1400m -

JOB NO.: SENECA WALKTHRU DATE: NOV 13, 2015

CREW: NORTON, DAILEN, STEFFEN

REMARKS:

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STRIP NO.: PH1-012 DIRECTION: 350°
 START STRIP: 2100 m - 2900 m
 JOB NO.: SENECK WALKTHRU DATE: Nov 13 2015
 CREW: NORTON DAILEN STEFEN
 REMARKS: _____

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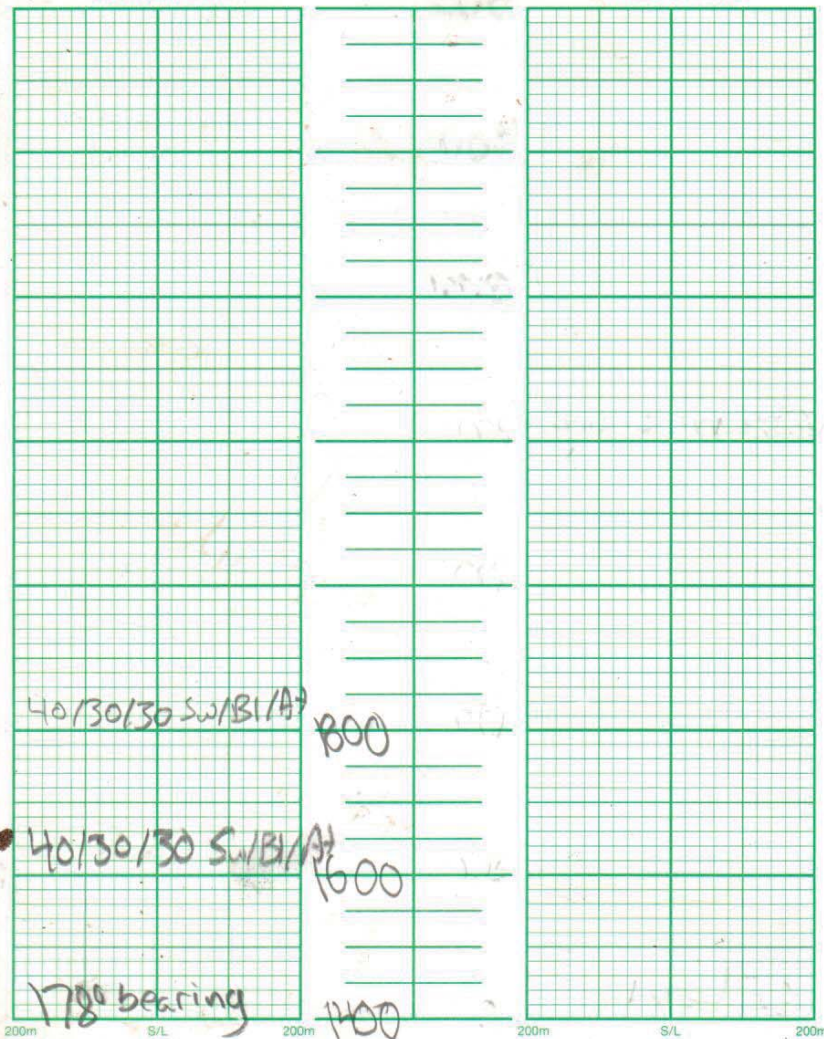
STRIP NO.: 3
DIRECTION: 220
START STRIP: 104 0487473 6089235
JOB NO.: PH-012
DATE: Nov 15, 2015
CREW: Aaron Colebank
REMARKS:

TOPOGRAPHY

STRIP NO.

PHI-012

TIMBER TYPE



STRIP NO.: _____ DIRECTION: _____

START STRIP: _____

JOB NO.: _____ DATE: _____

CREW: _____

REMARKS: _____



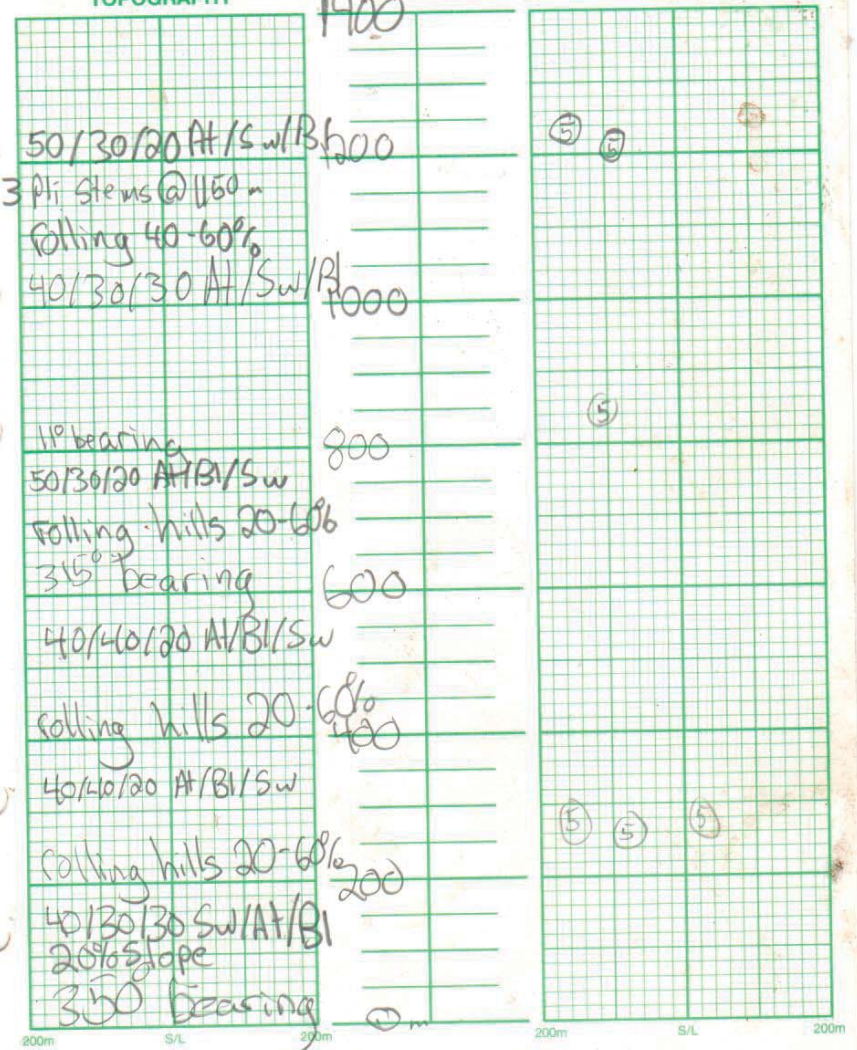
www.irisupplies.com
Ph: 1-800-663-6843

TOPOGRAPHY

STRIP NO.

PHI-012

TIMBER TYPE



STRIP NO.: _____ DIRECTION: _____

START STRIP: _____

JOB NO.: _____ DATE: _____

CREW: _____

REMARKS: _____



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TOPOGRAPHY

STRIP No.

TIMBER TYPE

40/40/20 A/B/Sw

215° bearing

Scale change

283° bearing

Probe 1 @ 150m, 11° bearing

Scale change

40/40/20 B/A/Sw

2200

2000

1800

1750

1700

1600

1600

1400

Bark Sample

① ⑤
Probe J

STRIP NO.: _____ DIRECTION: _____

START STRIP: _____

JOB NO.: _____ DATE: _____

CREW: _____

REMARKS: _____

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TOPOGRAPHY

STRIP No.

TIMBER TYPE

done

rolling hill 20-48%

rolling hill 20-40%

40/40/20 A/B/Sw

rolling hill 30-60%

2800

2600

2400

2200

STRIP NO.: _____ DIRECTION: _____

START STRIP: _____

JOB NO.: _____ DATE: _____

CREW: _____

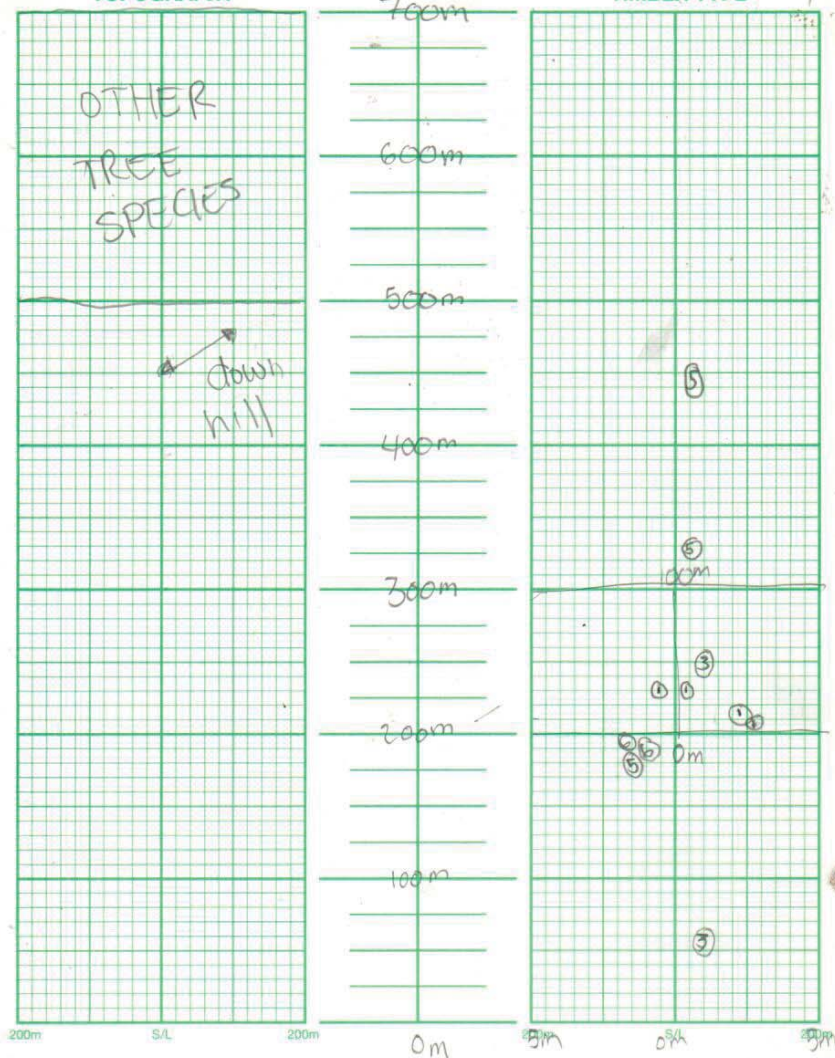
REMARKS: _____

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TOPOGRAPHY

STRIP No. PH1-012

TIMBER TYPE



STRIP NO.: PH1-012 DIRECTION: 6°

START STRIP: 0 - 700m

JOB NO.: SENECA WALKTHROUGH DATE: NOV 16th 2015

CREW: NORJON, DAILEN, STEFFEN

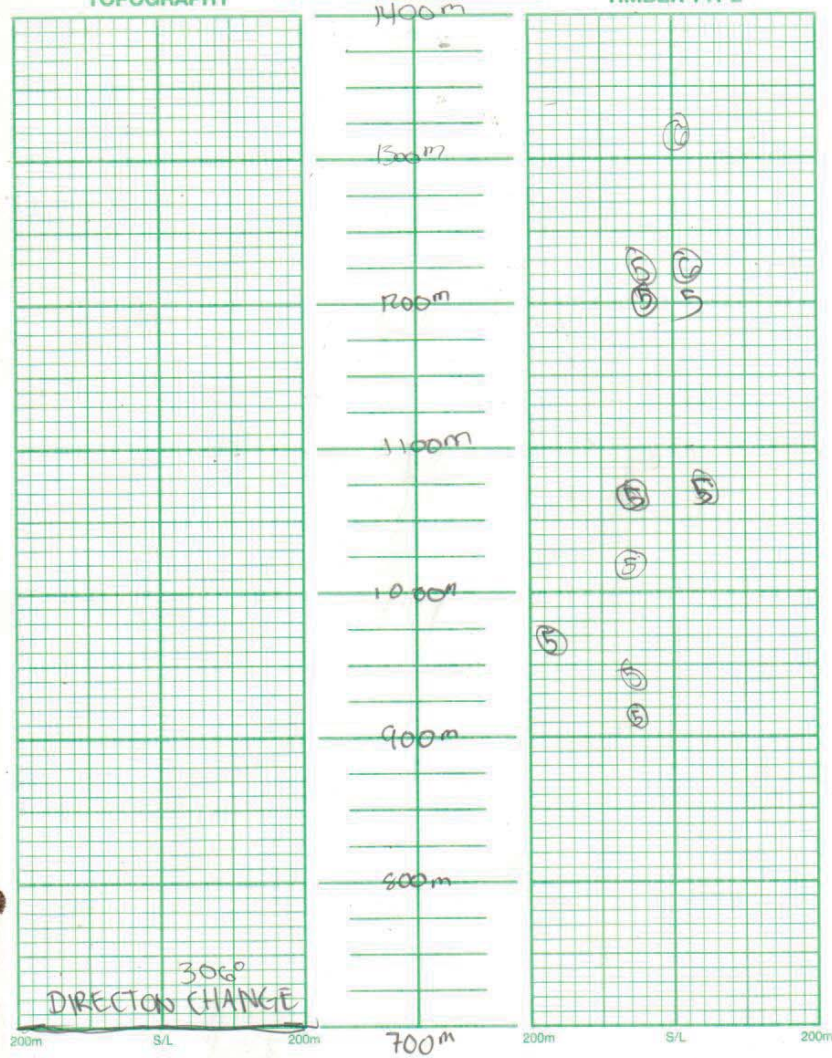
REMARKS:

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Ph: 1-800-663-6843

TOPOGRAPHY

STRIP No. PH1-612

TIMBER TYPE



STRIP NO.: PH1-012 DIRECTION: 306°

START STRIP: 700m - 1400m

JOB NO.: WALKTHROUGH SENECA DATE: NOV 16th 2015

CREW: NORJON DAILEN STEFFEN

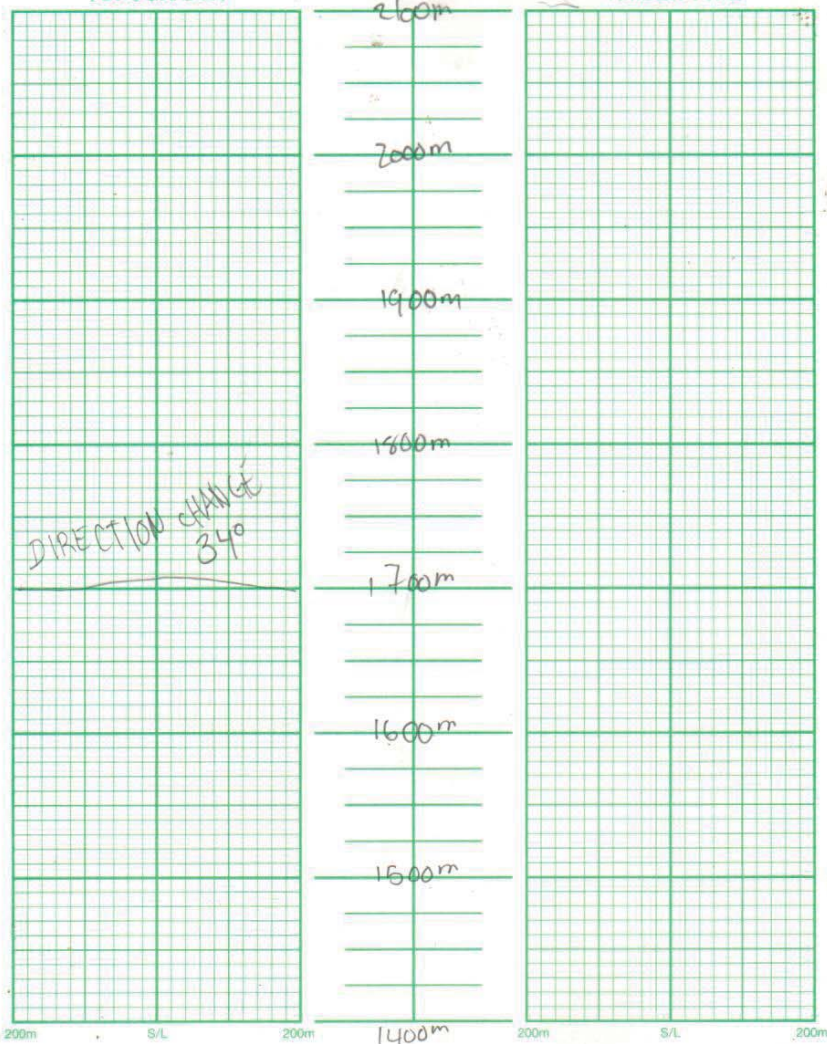
REMARKS:

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TOPOGRAPHY

STRIP No. PHI-012

TIMBER TYPE



STRIP NO.: PHI-012 DIRECTION: 34°

START STRIP: 1400m - 2100m

JOB NO.: WALKTHROUGH DATE: NOV 16th 2015

CREW: NORTON DAILEN STEFFEN

REMARKS:

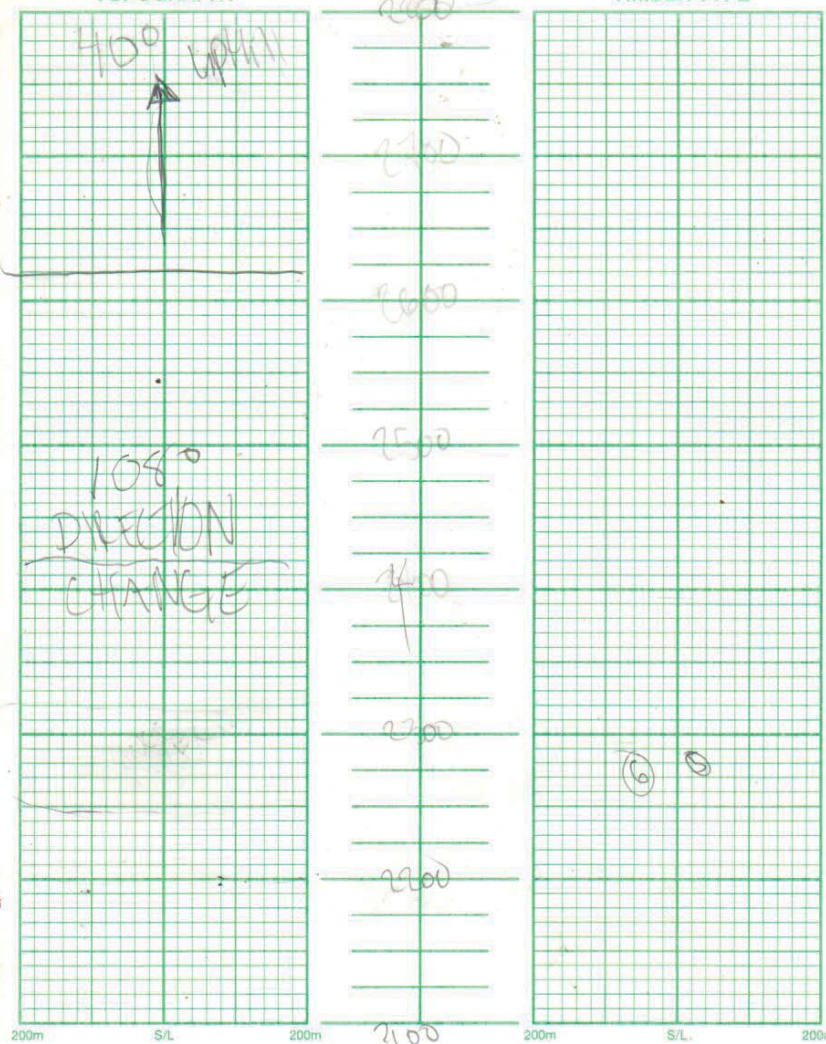


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TOPOGRAPHY

STRIP No. PHI-012

TIMBER TYPE



STRIP NO.: PHI-012 DIRECTION: 108°

START STRIP: 2100 - 2900m

JOB NO.: SENECA WALKTHROUGH DATE: NOV 16th 2015

CREW: NORTON STEFFEN DAILEN

REMARKS:

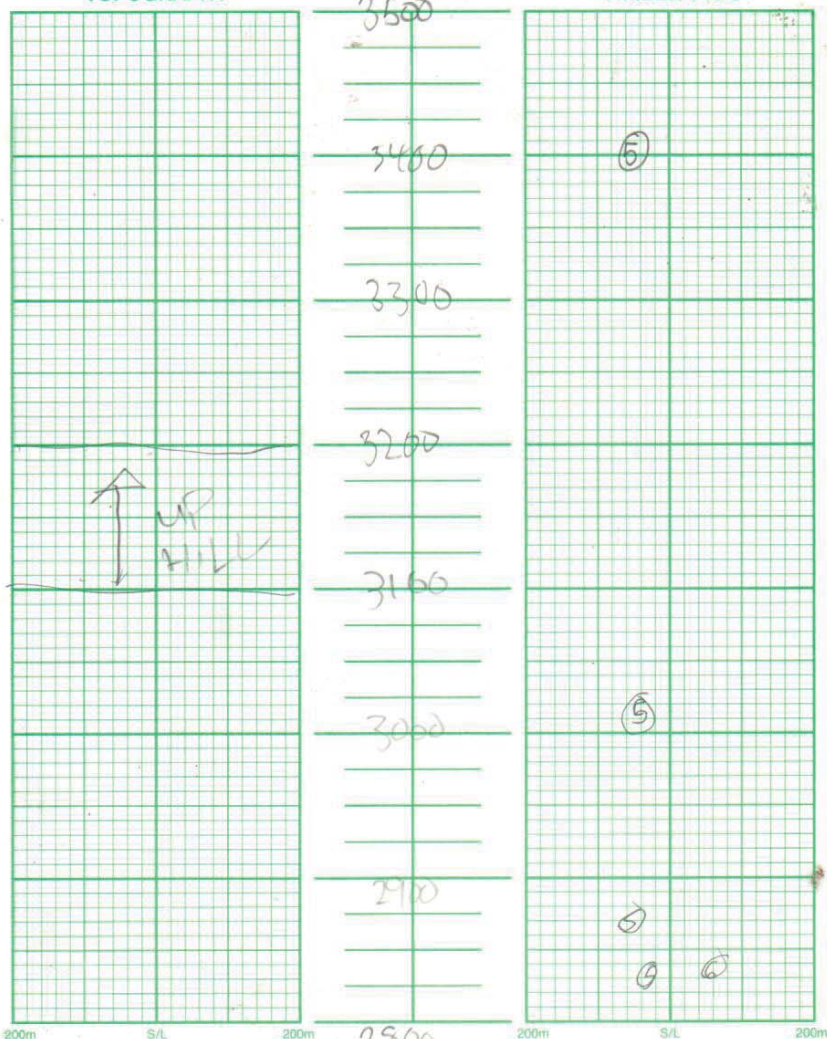


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TOPOGRAPHY

STRIP No.

TIMBER TYPE



STRIP NO.: PH1-012 DIRECTION: 106°
 START STRIP: 2800m - 3500m
 JOB NO.: SENECA WALKTHRU DATE: NOV 16 2015
 CREW: NORTON STEFFEN DAILEN
 REMARKS:

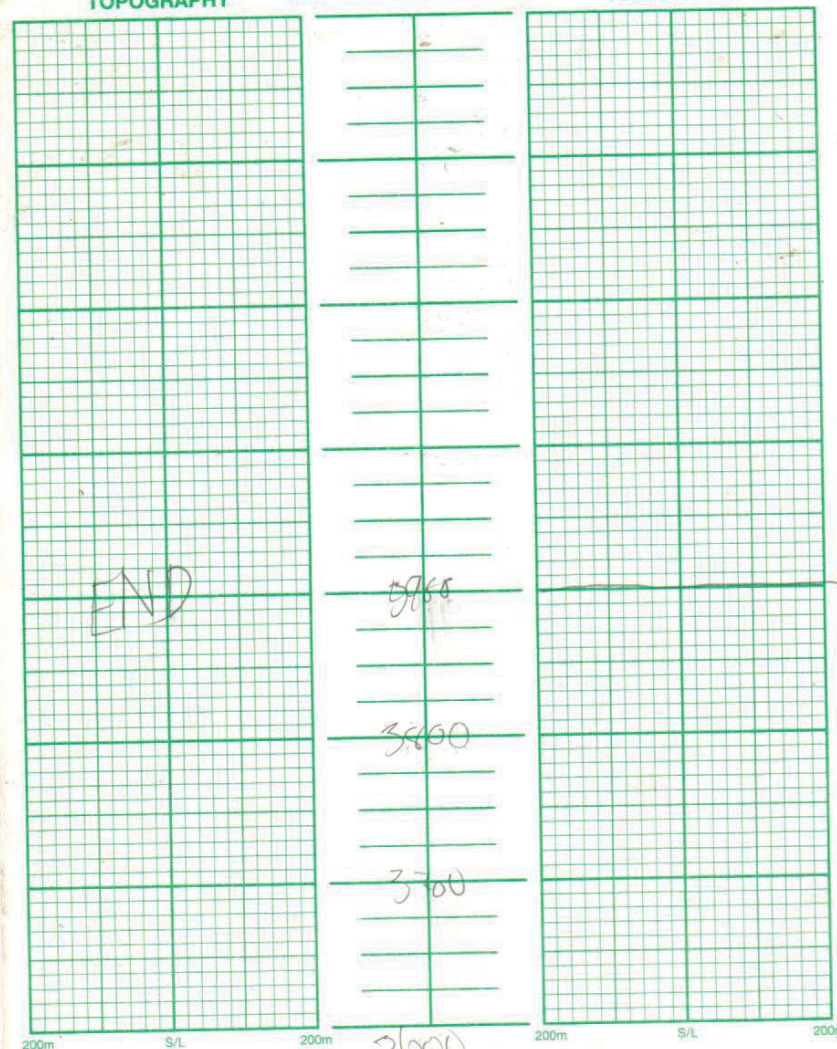


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TOPOGRAPHY

STRIP No.

TIMBER TYPE



STRIP NO.: PH1-012 DIRECTION: 106°
 START STRIP: 3600m - 3900m
 JOB NO.: SENECA WALKTHRU DATE: NOV 16 2015
 CREW: NORTON DAILEN STEFFEN
 REMARKS:



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