**Polygon Name: 2014-GAF-002**

ACTIVE

Ministry of Forests, Lands and Natural Resource Operations

# Spruce Bark Beetle Field Map

**Polygon Name: 2014-GAF-002**

| | |
|---|---|
| Landscape Unit/BMU: | Gaffney |
| Region: | Omineca |
| District: | Mackenzie |
| Mapsheet: | 093O12 |
| Hectares: | 137.18 |
| Scale: | 1:10,000 |
| When plotted on ANSIC | |
| Coordinate System: | PCS Albers |
| Datum: | North American 1983 |
| Date Drawn: | 03/06/2015 |
| Drawn By: | msnively |

## Map Features

- Susceptible Spruce Bark Beetle Polygon

**2013 SB Hazard Rating (20% increments)**

Hazard Classes

- Low/Med (21-40)
- Med (41-60)
- High (61-80)
- Very High (81-100)
- Cutting Permit
- RESULTS Opening
- Landscape Unit
- Road Permit Active
- Road Permit Pending
- Km_Marker_Points
- Communities
- First Nations Reser
- Mackenzie District
- OGMA Legal Curre
- Ungulate Winter Ra
- Wildlife Habitat Are

**Protected Lands Designa**

- Ecological Reserve
- Protected Area
- Provincial Park
- Contour - Index
- Contour - Intermedi
- Lakes and Rivers
- Wetlands
- Streams

N W E S

0 0.1 0.2 0.4 Kilometers

## Disclaimer

The accuracy and completeness information on this map is not gu

700METER-GAF-002B
START-GAF-002C
GAF-002-2
P3-GAF-002
TRUCK
QUAD
CODE1 0
CODE1 9
CODE1 4
CODE1 3
CODE1 2
CODE1 6
CODE1+2 7
CODE1 8
GAF-002-START1
GAF-002-PROBE2
700METERGAF-002-800M

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

# SPRUCE BARK BEETLE REPORT FH16DMK010

POLYGON: GAF-002 HECTARES: 137.18

WALKTHROUGH DISTANCE: 14600

ESTIMATED INFFESTED PIXELS FROM WALKTHROUGH (Code 1-4) 31 **21.2%**

**SUMMARY OF CURRENT INFESTATION**

Walkthrough shows patchy attack with a high a high sanitaiotn and harvest rating in these areas. All of the attack is predominantly within Drainages and steep gullies. Trees show moderate attack denisties.

MODERATE ATTACK WITH 20% INFESTED

**ACCESS**

Access off of main at North end of Polygon. ATV brushed in road access all the way to the southern part of Polygon.. Poor access walk in to northeast side of polygon.

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

Steep Polygon with very steep gullies scattered throughout. Stand is a mix of Spruce Balsam with scattered dead pine. Extreme Blowdown in North east buvbble of polygon.

**SIZE, BOUNDARY and PATTERN OF INFESTATION**

Area infested roughly 20% of polygon and several pataches loacted mainline along drainages. Areas that have fresh attack mainly code 1's on a 2year cycle.

**INCIDENCE AND SEVERITY OF ATTACK**

In parts of Polygon, moderate attack density with moderate mean larval density.7

**RISK OF BEETLE SPREAD**

While surrounded by cutblocks, the current po,lygon could become completely infested rather than the patches currently.

**ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES**

While there is good access through polygon, areas currently having Spruce Beetle are in extremely steep gullies with minimal access to the

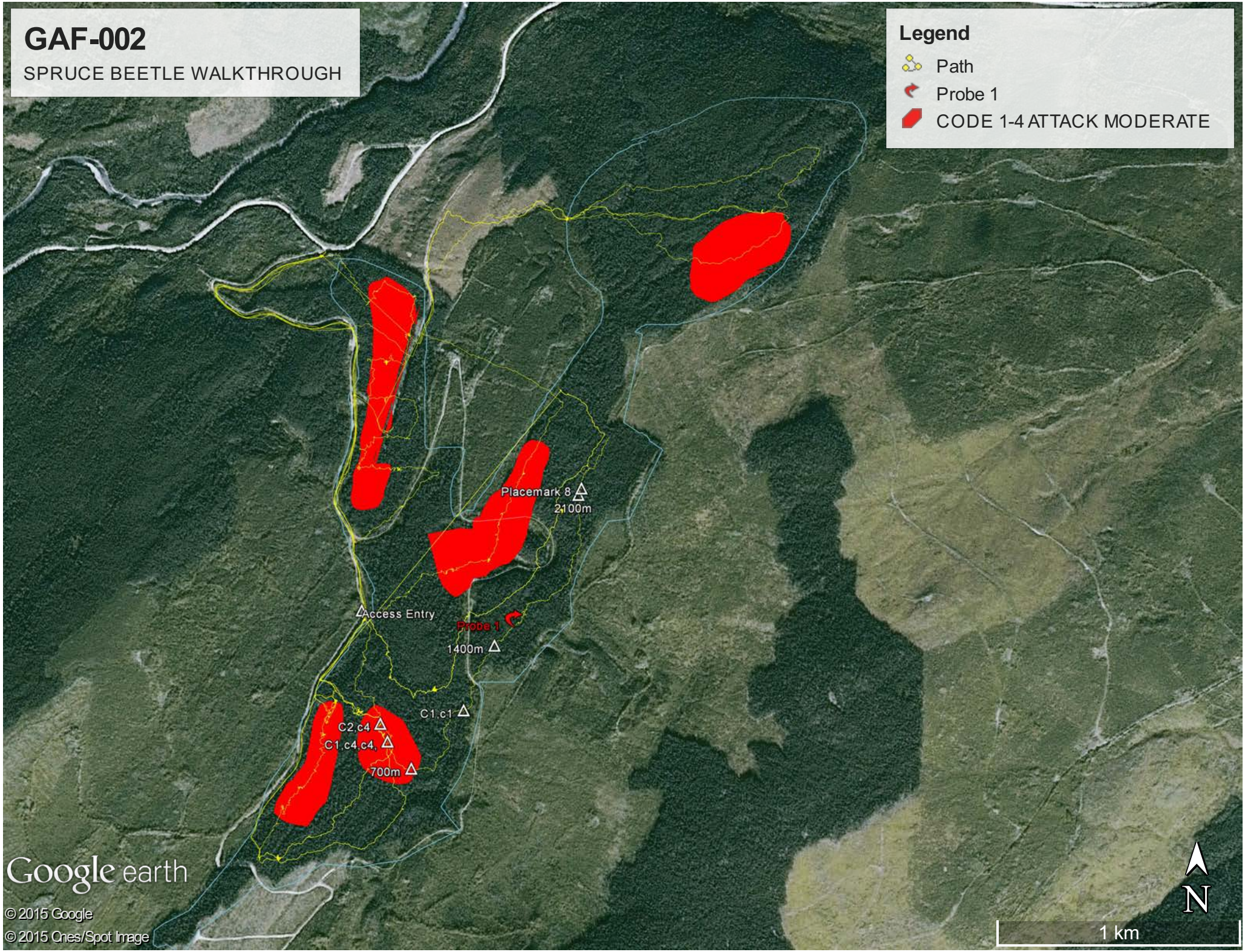
**RECOMMENDATIONS**

**OPTION 1** **TRAP TREES**

**Sanitation and Salvage Rating is high from 3 probe lines however areas attacked and needing removal are in steep diffiuclt access drainages. Recommend trap tree trails within vicinity along brushed in road to help contain the spread through the polygon. Could further Probe to determine boundaries of attack, but gullies may limit logging activity as very steep terrain.**

**OPTION 2** **MONITOR**

**With Patchy infestation and areas of attack, monitor**


GAF-002
SPRUCE BEETLE WALKTHROUGH
Legend
Path
Probe 1
CODE 1-4 ATTACK MODERATE
Placemark 8
2100m
Access Entry
Probe 1
1400m
C1,c1
C2,c4
C1,c4,c4,
700m
Google earth
© 2015 Google
© 2015 Cnes/Spot Image
N
1 km

# Summary

| | | | | | | |
|---|---|---|---|---|---|---|
| GAF-002 | HEC | 137.18 | METERS WALKED | 14600 | % TRAVERSED | 10.6% |
| PIXELS COVERED BY WALKTHROUGH | 146 | INFESTED PIXELS | 31 | **ESTIMATED % OF BLOCK INFESTED (From Walk through)** | | **21.2%** |

## 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 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 |
| 25.1-30.0 | 5.3 | 10.6 | 5.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 53 |
| 30.1-35.0 | 7.1 | 28.4 | 21.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 63.9 |
| 35.1-40.0 | 9.4 | 112.8 | 9.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 47 |
| 40.1-45.0 | 11.6 | 104.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 34.8 |
| 45.1-50.0 | 13.8 | 110.4 | 55.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.8 |
| 50.1-55.0 | 16.2 | 113.4 | 16.2 | 16.2 | 0.0 | 0.0 | 0.0 | 0.0 | 48.6 |
| 55.1-60.0 | 18.7 | 56.1 | 18.7 | 28.1 | 0.0 | 0.0 | 0.0 | 9.4 | 56.1 |
| 60.1 + | 25.3 | 25.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 |
| TOTALS | 741.1 | 561.4 | 126.1 | 44.25 | 0.0 | 0.0 | 0.0 | 9.35 | 317.2 |

## 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 |
| **1.67** | < 3.9 SEVERE Attack Density | **8.67** | >24,9 EXTREME Mean Larval Density |

## TABLE 2- Spruce Beetle Management Options after Walkthrough

| | | | | | | |
|---|---|---|---|---|---|---|
| % 2015 ATTACK | 23.0% | ## | SANITATION AND SALVAGE HARVEST PRIORITY RATING | | | |
| % 2014 ATTACK | 0.0% | ## | LIGHT | 0-599 | LEAVE (Monitor, Trap Trees, Baits, etc) | 1631.7 |
| % 2013 ATTACK | 1.3% | ## | MODERATE | 600-999 | PROBE (To Obtain Further Info) | |
| % HOST IN STAND | 70.0% | ## | HEAVY | 1000+ | RECOMMEND CRUISING/ LOGGING | |

# SUMMARY OF ALL CARDS FS1111

**NUMBER OF CARDS** 3

ACCESS - Access off of main at North end of Polygon. ATV brushed in road access all the way to the southern part of Polygon.. Poor access walk in to northeast side of polygon.

POLYGON FEATURES - Steep Polygon with very steep gullies scattered throughout. Stand is a mix of Spruce Balsam with scattered dead pine. Extreme Blowdown in North east buvbble 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 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 10 | 0 |
| 30.1-35.0 | 7.1 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 9 | 0 |
| 35.1-40.0 | 9.4 | 12 | 1 | 0 | 0 | 0 | 0 | 0 | 5 | 0 |
| 40.1-45.0 | 11.6 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| 45.1-50.0 | 13.8 | 8 | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 50.1-55.0 | 16.2 | 7 | 1 | 2 | 0 | 0 | 0 | 0 | 3 | 0 |
| 55.1-60.0 | 18.7 | 3 | 1 | 3 | 0 | 0 | 0 | 1 | 3 | 0 |
| 60.1 + | 25.3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTALS | | 46 | 11 | 5 | 0 | 0 | 0 | 1 | 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 | | |
| | | | | | | Y r | Y r ____ | Unattacked |
| 6 | 10 | 1 | 52 | 0 | 0 | 0 | 0 | 0 |

SIZE, BOUNDARY AND PATTERN OF THE INFESTATION

Area infested roughly 20% of polygon and several pataches loacted mainline along drainages. Areas that have fresh attack mainly code 1's on a 2year cycle.

INCIDENCE AND SEVERITY OF THE INFESTATION

In parts of Polygon, moderate attack density with moderate mean larval density.7

RISK OF BEETLE SPREAD

While surrounded by cutblocks, the current po,lygon could become completely infested rather than the patches currently.

ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES

While there is good access through polygon, areas currently having Spruce Beetle are in extremely steep gullies with minimal access to them and Riparian issues within them.7

PROBE 1

# SPRUCE BEETLE PROBE CARD

| LOCATION | | PAGE | OF |
|---|---|---|---|
| GAF-002 | 55.63926, 123,96911 | 1 | 2 |
| BEARING | DISTANCE | STRIP WIDTH | |
| 30° | 100 m | 10 m | |

| DIAMETER CLASS | SURFACE AREA FACTOR | NUMBER OF HEALTHY HOSTS | BARK BEETLE CODE BY YEAR OF ATTACK 1 | 2 | 3 | 4 | 5 | 6 | OTHER TREE SPECIES |
|---|---|---|---|---|---|---|---|---|---|
| ~~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 | | 13 | 4 | | | | | | |

| BARK SAMPLES 15cm x 15cm | NO. ENTRANCE HOLES | NO. PARENT ADULTS | NO. LARVAE | NO. PUPAE | NO. CALLOW ADULTS | FRESH (GREEN) BLOWDOWN Attacked | Attacked | Unattacked |
|---|---|---|---|---|---|---|---|---|
| P1 | 2 | 1 | 3 | / | / | / | / | / |
| P2 | 2 | / | 4 | / | / | / | / | / |

COMMENTS
- Lot's of blowdown. Located in bottom of gully. 2015 attack
* BS

| CREW NAMES | DATE Y | M | D |
|---|---|---|---|
| JAMES K. | 15 | 10 | 19 |

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

PROBE 2

# SPRUCE BEETLE PROBE CARD

| LOCATION | | PAGE | OF |
|---|---|---|---|
| GAF-002 | 0438235 6166064 | 2 | 2 |
| BEARING | DISTANCE | STRIP WIDTH | |
| 195 | 100 m | 10 | |

| DIAMETER CLASS | SURFACE AREA FACTOR | NUMBER OF HEALTHY HOSTS | BARK BEETLE CODE BY YEAR OF ATTACK 1 | 2 | 3 | 4 | 5 | 6 | OTHER TREE SPECIES B1 |
|---|---|---|---|---|---|---|---|---|---|
| 17.5 - 25.0 | 3.3 | | | | | | | | |
| 25.1 - 30.0 | 5.3 | | | | | | | | • |
| 30.1 - 35.0 | 7.1 | •• • | • | | | | | | • • • |
| 35.1 - 40.0 | 9.4 | • • • • • | • | | | | | | • • G |
| 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 | | 22 | 6 | | | | | | 12 |

| BARK SAMPLES 15cm x 15cm | NO. ENTRANCE HOLES | NO. PARENT ADULTS | NO. LARVAE | NO. PUPAE | NO. CALLOW ADULTS | FRESH (GREEN) BLOWDOWN Attacked | Attacked | Unattacked |
|---|---|---|---|---|---|---|---|---|
| 2A | / | / | 6 | / | / | | | |
| 2B | / | / | 14 | / | / | | | |

COMMENTS BS = *
- Site along creek. Large Sx and open stand.

| CREW NAMES | DATE Y | M | D |
|---|---|---|---|
| JAMES KELLY | 15 | 10 | 20 |

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

PROBE 3

# BRITISH COLUMBIA BEETLE PROBE CARD

| LOCATION | ELEVATION | LATITUDE | PAGE | OF |
|---|---|---|---|---|
| 0439750 GAF.002 6167765 | 1032 | | 1 | 1 |

| BEARING | STRIP LINE NO | STRIP WIDTH | DISTANCE | BEETLE SPECIES |
|---|---|---|---|---|
| 90° | 3 | 10m | 100m | [X] SB [ ] MPB [ ] DFB |

| DIAMETER CLASS | SURFACE AREA FACTOR | NUMBER OF HEALTHY HOSTS | BARK BEETLE CODE BY YEAR OF ATTACK 1 | 2 | 3 | 4 | 5 | 6 | OTHER TREE SPECIES MAIN | OTHER |
|---|---|---|---|---|---|---|---|---|---|---|
| 12.5 - 17.4 | 2.0 | | | | | | | | B1 | |
| 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 | | 11 | | 5 | | | | 1 | 23 | |

| BARK SAMPLES 15cm x 15cm | NO. ENTRANCE HOLES | NO. PARENT ADULTS | NO. LARVAE | NO. PUPAE | NO. CALLOW ADULTS | FRESH (GREEN) BLOWDOWN Attacked | | Unattacked |
|---|---|---|---|---|---|---|---|---|
| PA | 2 | / | 7 | / | / | / | / | / |
| PB | 4 | / | 8 | / | / | / | / | / |

COMMENTS BS

Probe taken in low wet gully.

| CREW NAMES | DATE Y | M | D |
|---|---|---|---|
| JAMES KELLY | 15 | 10 | 21 |

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# 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 1 | 2 | 3 | 4 | 5 | 6 | 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 |
|---|---|---|---|---|---|---|---|---|
| 7a | 6 | 1 | 1 | \ | \ | | | |
| 7b | 2 | \ | 2 | \ | 1 | | | |

COMMENTS

| CREW NAMES | DATE Y | M | D |
|---|---|---|---|
| | | | |

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# 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 |
| 8a | 2 | 1 | 6 | 1 | 1 | | |
| 8b | 3 | 1 | 5 | 1 | 1 | | |

COMMENTS

| CREW NAMES | DATE Y | M | D |
|---|---|---|---|
| | | | |

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

# 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 |
| 10a | 2 | 1 | 1 | 1 | 3 | | |
| 10b | 4 | 1 | 1 | 1 | 3 | | |

COMMENTS

| CREW NAMES | DATE Y | M | D |
|---|---|---|---|
| | | | |

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

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 |
| 9a | 2 | \ | 4 | \ | 1 | | |
| 9b | 4 | \ | 1 | \ | 1 | | |

COMMENTS

| CREW NAMES | DATE Y | M | D |
|---|---|---|---|
| | | | |



BS (1)

BRITISH COLUMBIA

# BEETLE PROBE CARD

| LOCATION | ELEVATION | LATITUDE | PAGE | OF |
|---|---|---|---|---|
| GAF - 009 | | | | |

| 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 |
| G1 | 3 | / | 3 | / | / | | |
| G2 | 2 | / | 5 | / | / | | |

COMMENTS

| CREW NAMES | DATE Y | M | D |
|---|---|---|---|
| | | | |

BS(2)

# BRITISH COLUMBIA BEETLE PROBE CARD

| LOCATION | ELEVATION | LATITUDE | PAGE | OF |
|---|---|---|---|---|
| GAF-002 | | | | |

| 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 |
| G1 | 2 | 1 | 5 | / | / | | |
| G2 | 3 | / | 7 | / | / | | |

COMMENTS

| CREW NAMES | DATE Y | M | D |
|---|---|---|---|
| | | | |

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

# 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 |
| 2a | 3 | \ | 6 | \ | \ | | |
| 2b | 2 | \ | 8 | \ | \ | | |

COMMENTS

| CREW NAMES | DATE Y | M | D |
|---|---|---|---|
| | | | |

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

# 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 |
| 1a | 4 | 1 | 6 | 1 | 1 | | |
| 1b | 3 | 1 | 6 | 1 | 1 | | |

COMMENTS

| CREW NAMES | DATE Y M D |
|---|---|
| | |

FS 1111A BPG 00/02 7530881049 (100/bd)


# 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 |
| 5a | 5 | 1 | 3 | 1 | 1 | | |
| 5b | 2 | 1 | 1 | 1 | 1 | | |

COMMENTS

| CREW NAMES | DATE Y M D |
|---|---|
| | |

FS 1111A BPG 00/02 7530881049 (100/bd)

# 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 |
| 4a | 2 | 1 | 1 | 0 | 1 | | |
| 4b | 2 | 1 | 1 | 0 | 1 | | |

COMMENTS

| CREW NAMES | DATE Y | M | D |
|---|---|---|---|
| | | | |

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


# 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 | | | | | | | | | | |

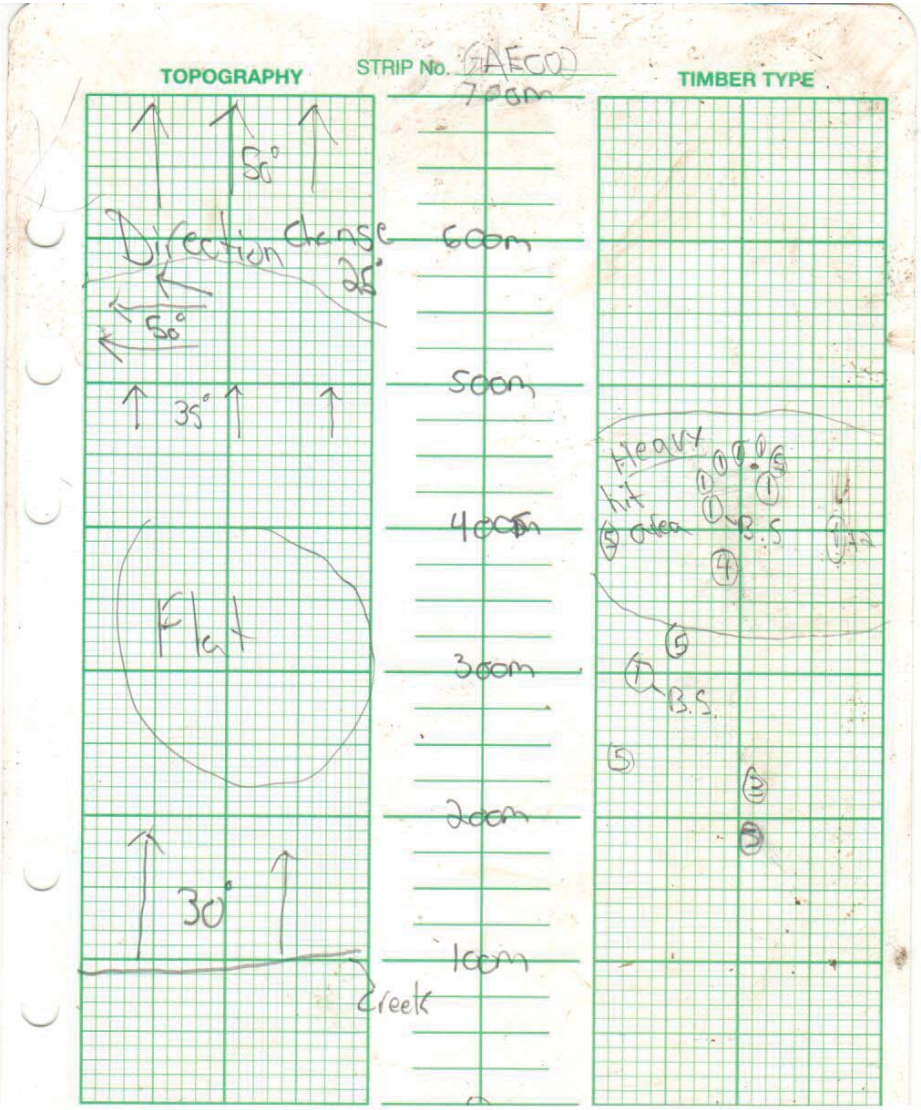
| BARK SAMPLES 15cm x 15cm | NO. ENTRANCE HOLES | NO. PARENT ADULTS | NO. LARVAE | NO. PUPAE | NO. CALLOW ADULTS | FRESH (GREEN) BLOWDOWN | |
|---|---|---|---|---|---|---|---|
| | | | | | | Attacked | Unattacked |
| 3a | 3 | 1 | 6 | 1 | 1 | | |
| 3b | 3 | 1 | 1 | 1 | 1 | | |

COMMENTS

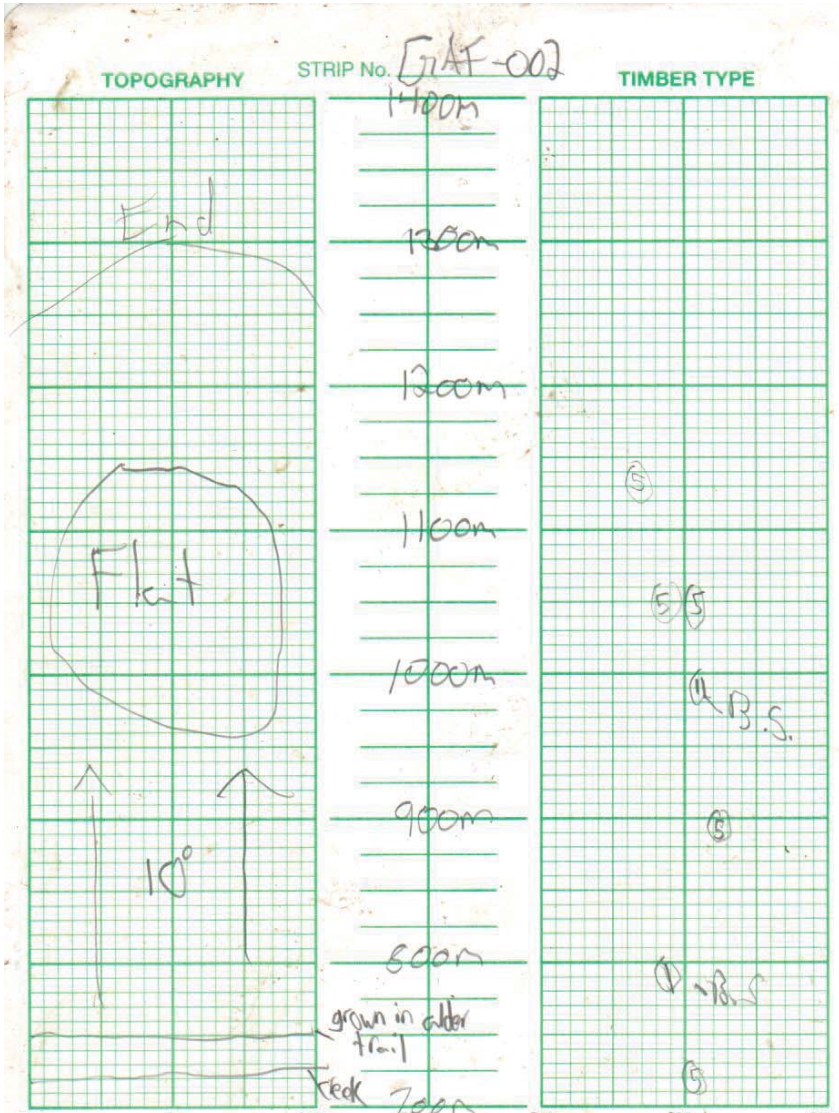
| CREW NAMES | DATE Y | M | D |
|---|---|---|---|
| | | | |

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

TOPOGRAPHY STRIP No. GAECO TIMBER TYPE




TOPOGRAPHY STRIP No. GIAF-002 TIMBER TYPE




200m 5m 200m 5m 200m 5m

STRIP NO.: GIAF-002 DIRECTION: 25°

START STRIP: 700m - 1400m

JOB NO.: Seneca walkthrough DATE: Oct. 19/15

CREW: Deiken. V

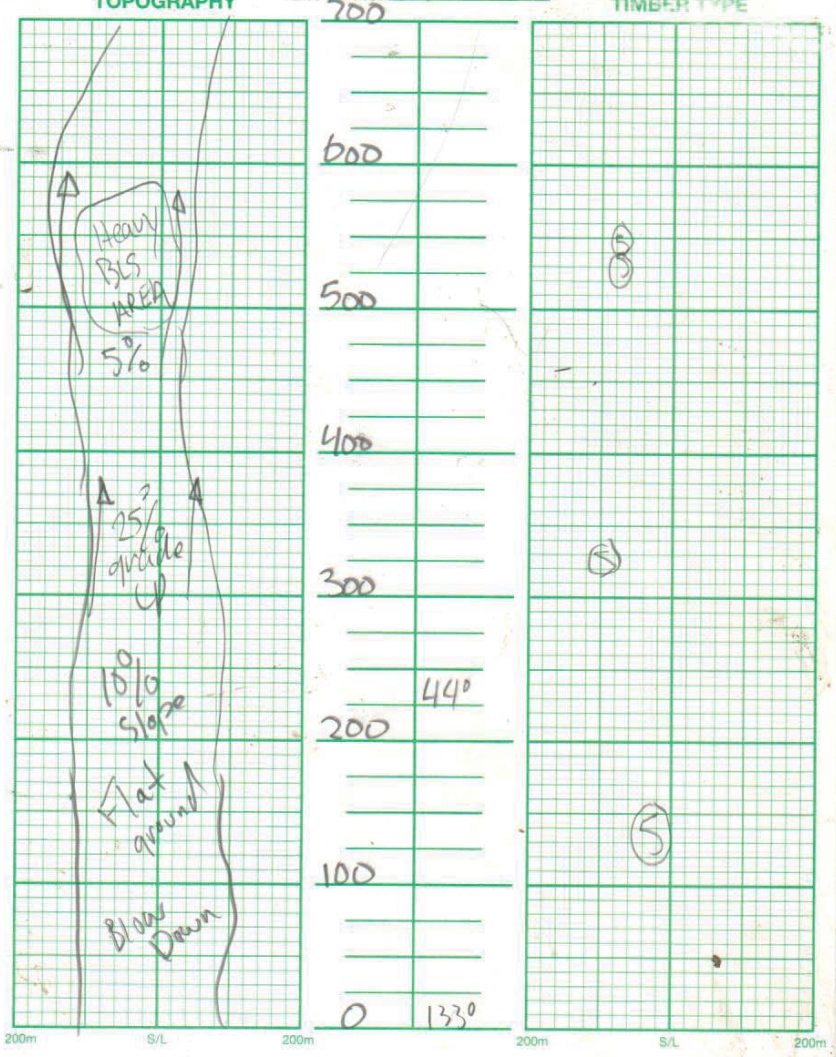
REMARKS:

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

TOPOGRAPHY

STRIP No. GAF-002

TIMBER TYPE




STRIP NO.: GAF-002 DIRECTION: 133°, 44°

START STRIP: 0-700

JOB NO.: Seneca, Walk DATE: Oct 19, 15

CREW: Pat Poirier

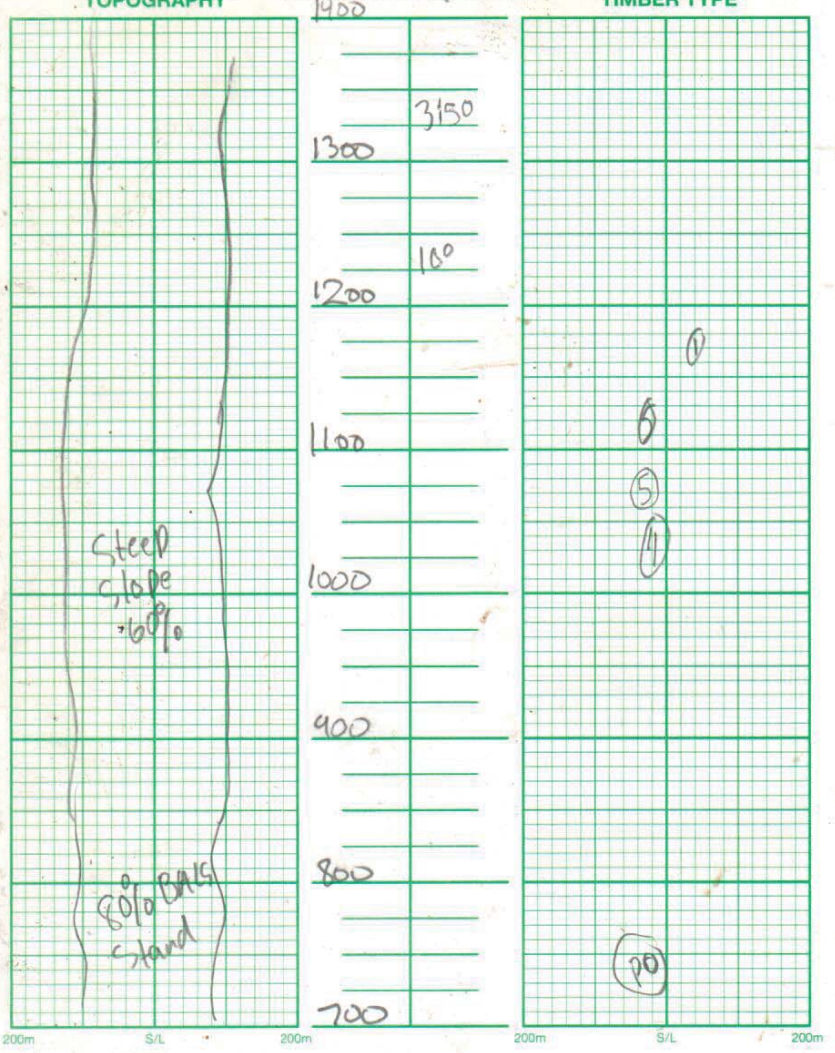
REMARKS:

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

TOPOGRAPHY

STRIP No. GAF-002

TIMBER TYPE




STRIP NO.: GAF-002 DIRECTION: 44°, 10°

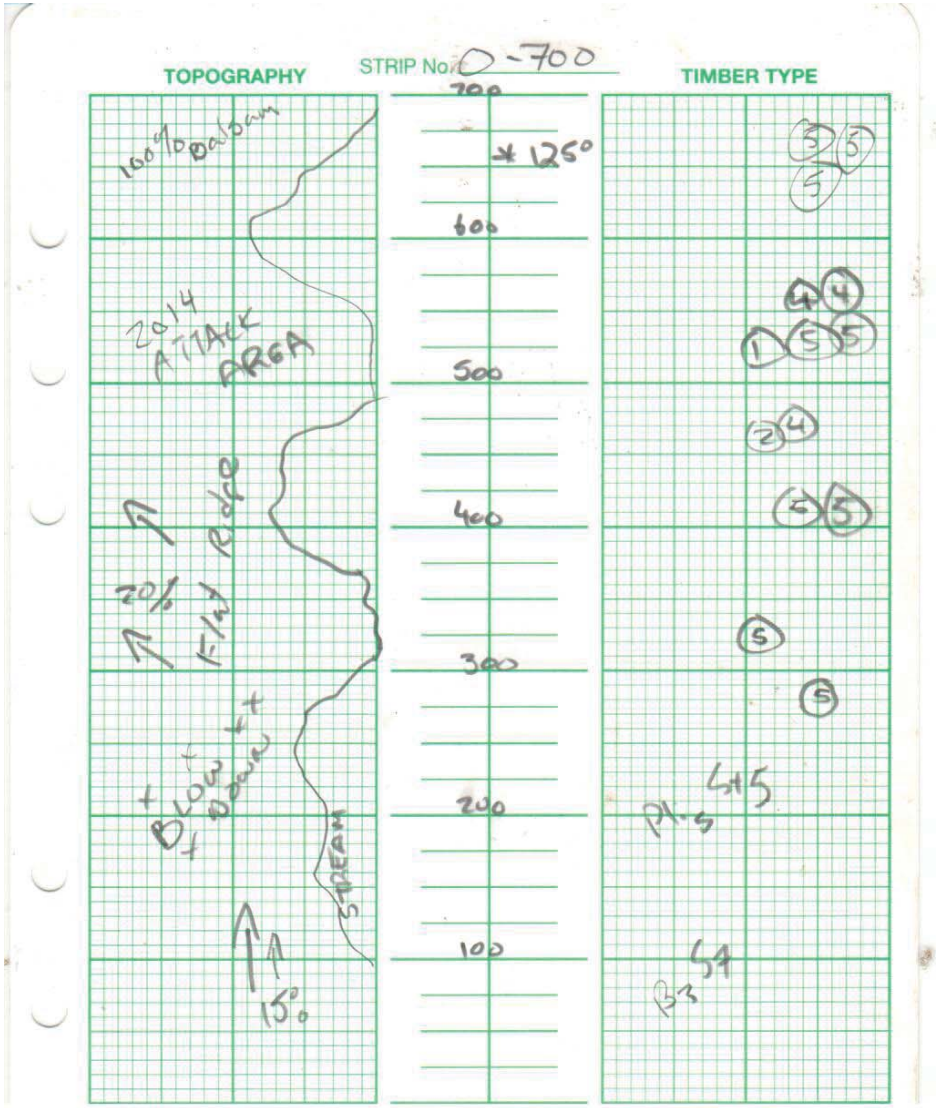
START STRIP: 700-1400

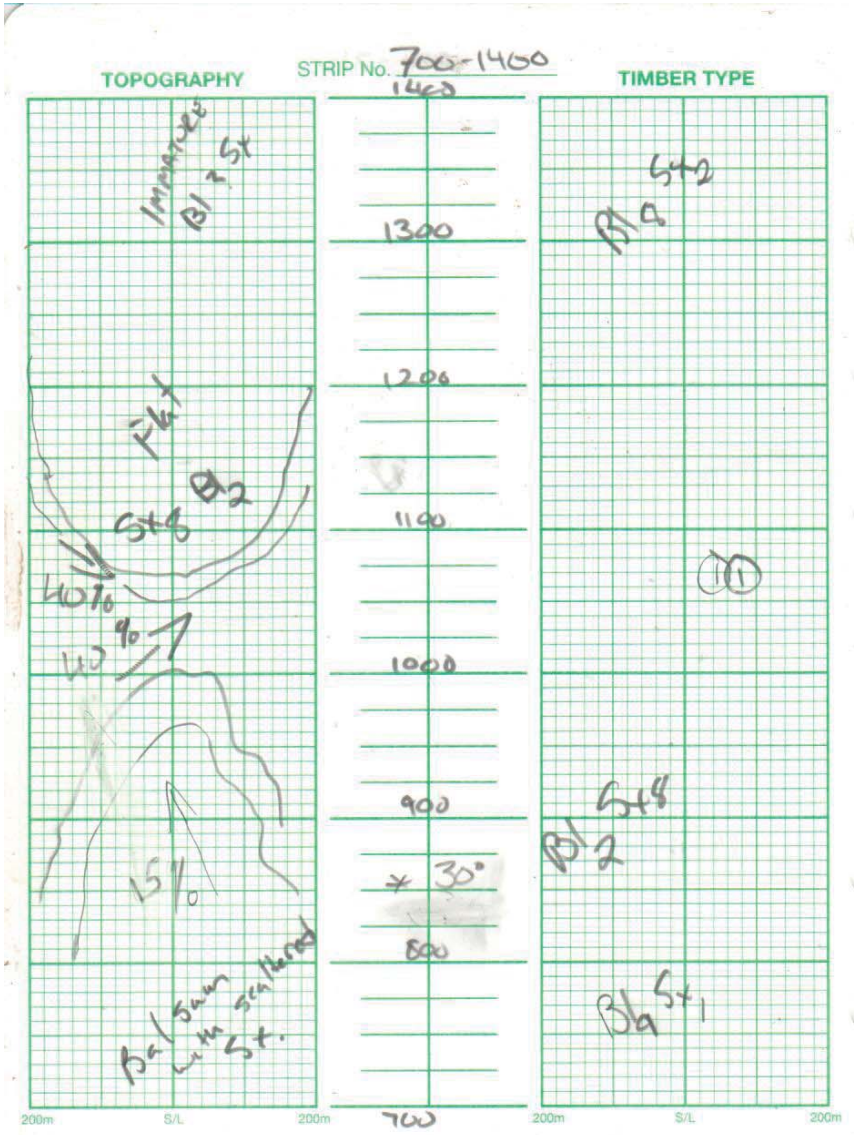
JOB NO.: Seneca/walk DATE: Oct 19, 15

CREW: Pat Poirier

REMARKS:

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




STRIP NO.: 1 DIRECTION: 125°-30°

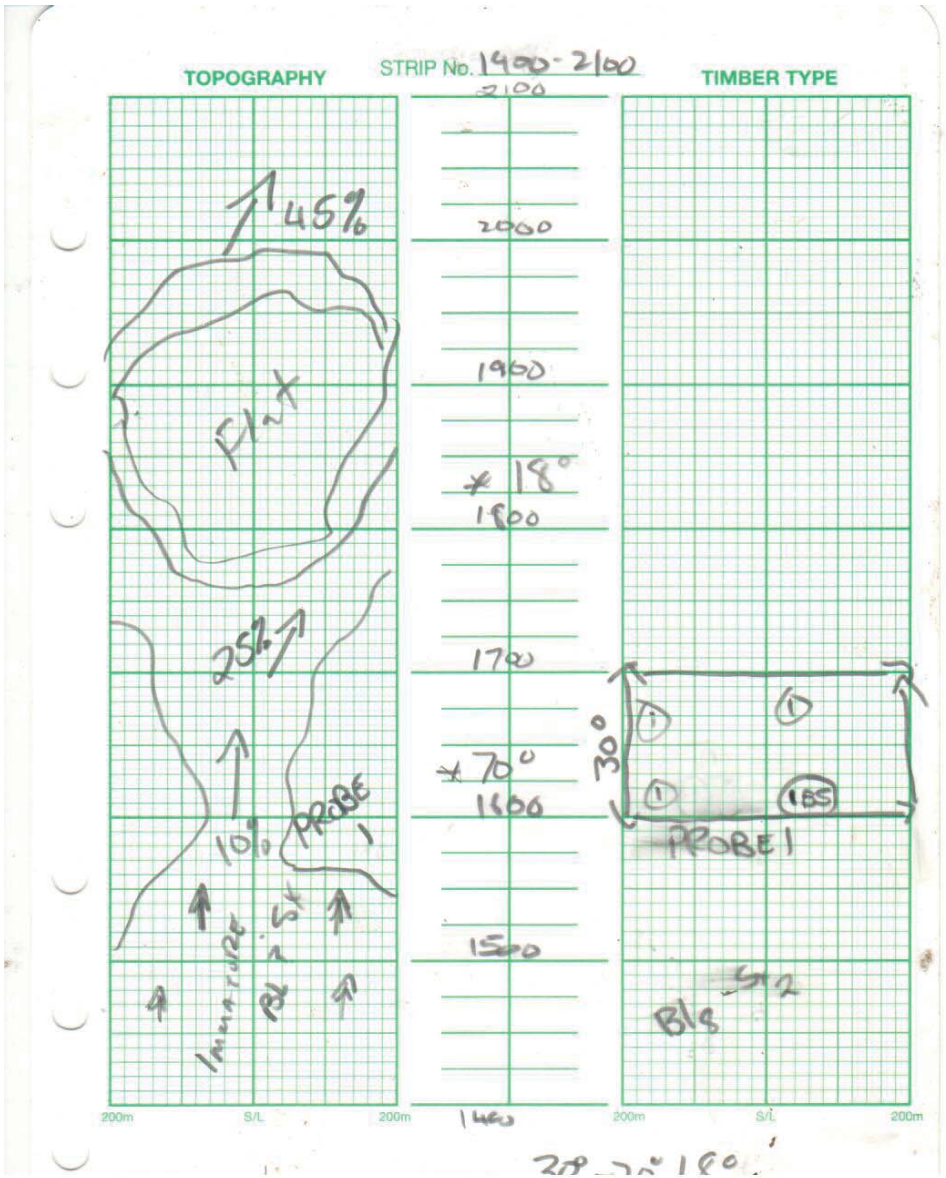
START STRIP: 700-1400

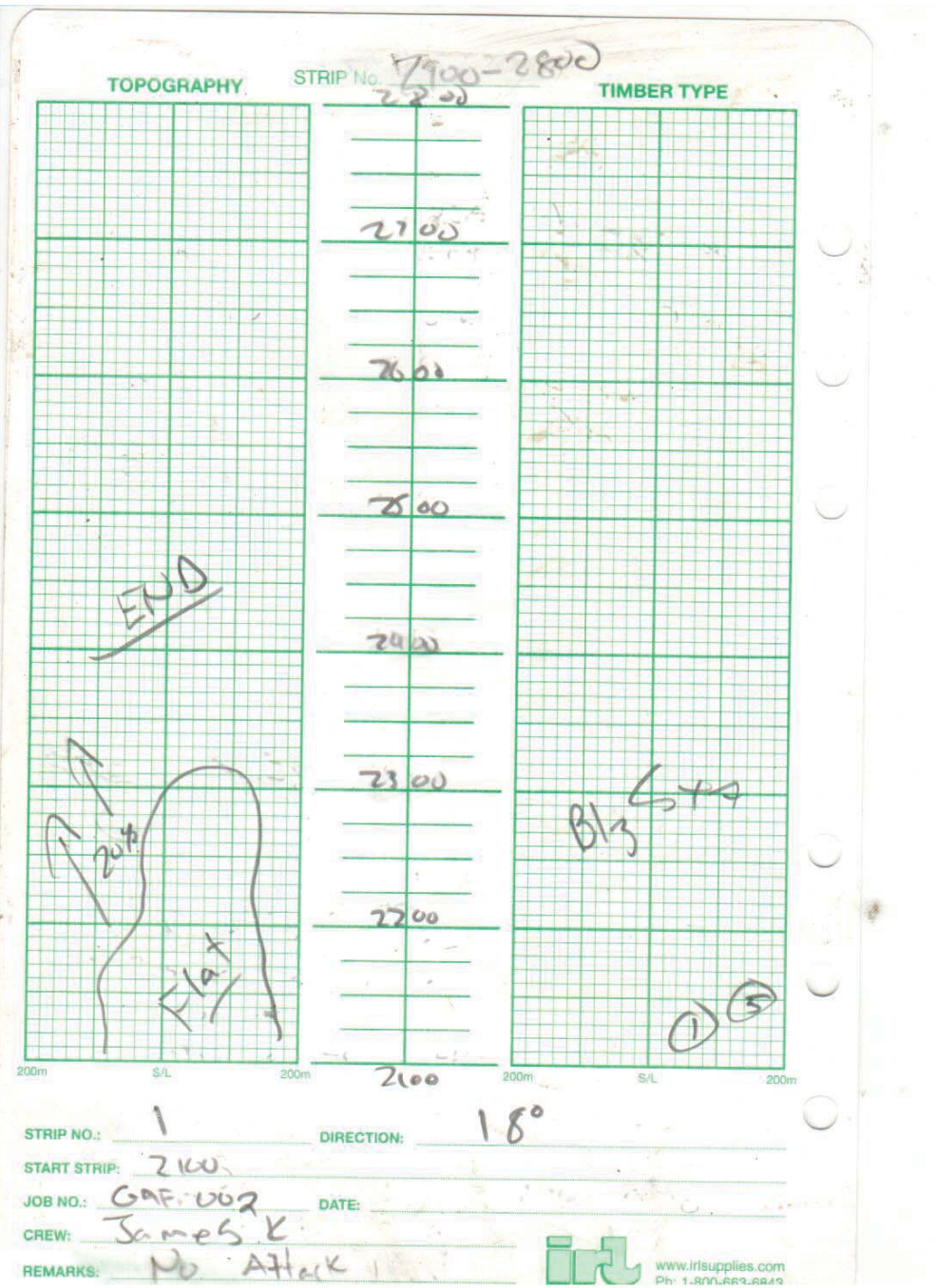
JOB NO.: GAF-002 DATE: Oct 19/2015

CREW: JAMES K.

REMARKS: Minimal Attack.

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




STRIP NO.: 1 DIRECTION: 18°

START STRIP: 2100

JOB NO.: GAF.002 DATE:

CREW: James K

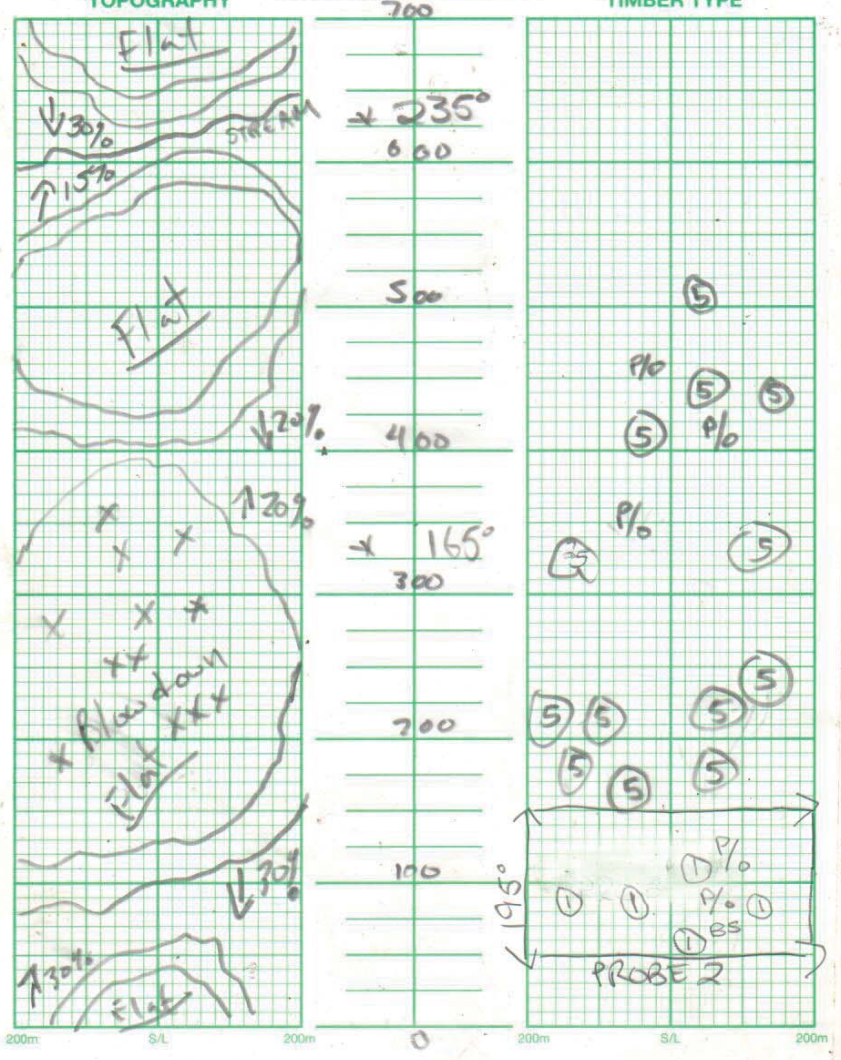
REMARKS: No Attack

www.irlsupplies.com
Ph: 1-800-663-8843

TOPOGRAPHY

STRIP No. 0-700 m

TIMBER TYPE




STRIP NO.: 1 DIRECTION: 114° - 165° - 235°

START STRIP: 0-700

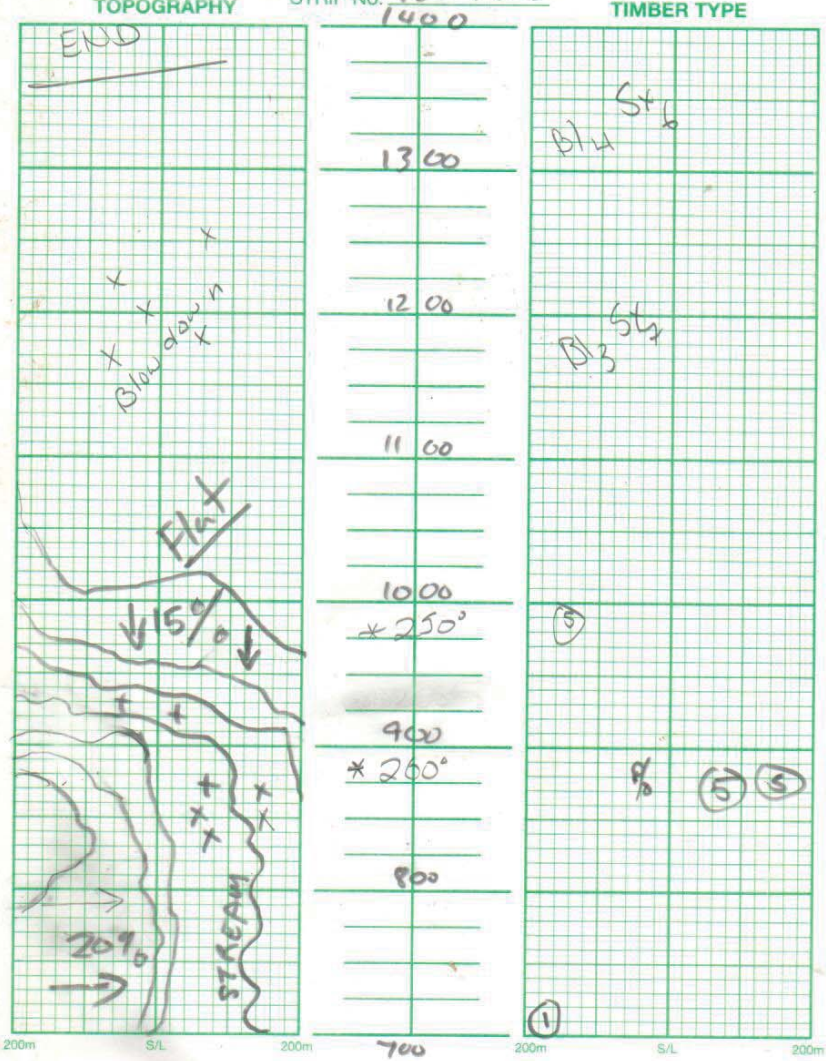
JOB NO.: GAF-009 DATE: Oct 20/2015

CREW: JAMES K.

TOPOGRAPHY

STRIP No. 700-1400

TIMBER TYPE




STRIP NO.: 1 DIRECTION: 235° - 260° - 250°

START STRIP: 700 - 1400

JOB NO.: GAF-009 DATE: Oct 20/2015

CREW: JAMES K.

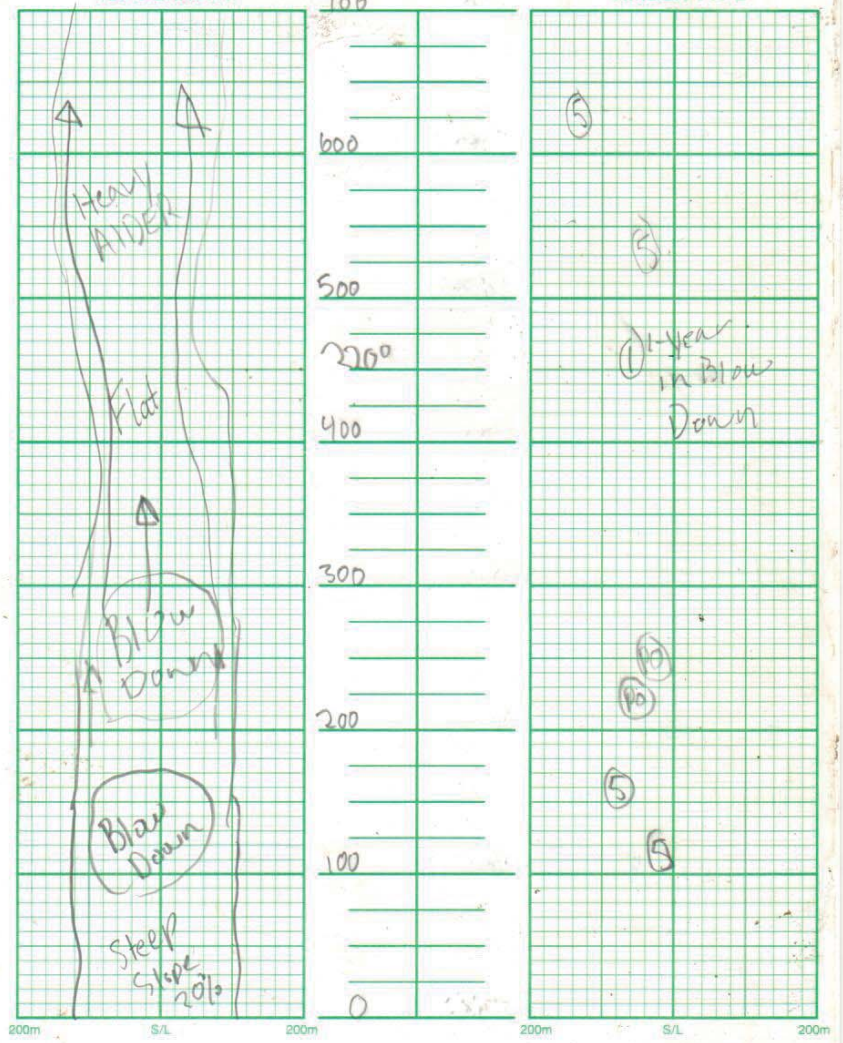
REMARKS: A lot of blowdown

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

TOPOGRAPHY

STRIP No. GAF-002

TIMBER TYPE




STRIP NO.: GAF-002 DIRECTION: 119°, 220°

START STRIP: 0-700

JOB NO.: Seneca/walk DATE: Oct 20, 15

CREW: Pat Poirier

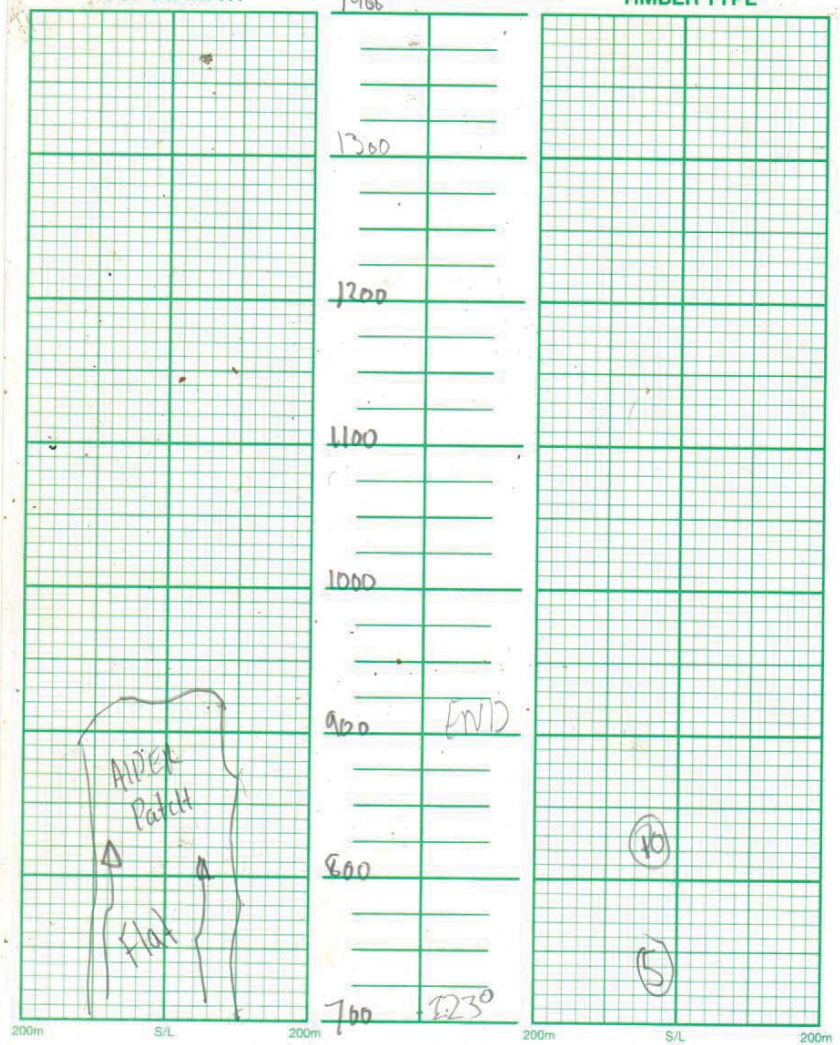
REMARKS:

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

TOPOGRAPHY

STRIP No.

TIMBER TYPE




STRIP NO.: GAF-002 DIRECTION: 223°

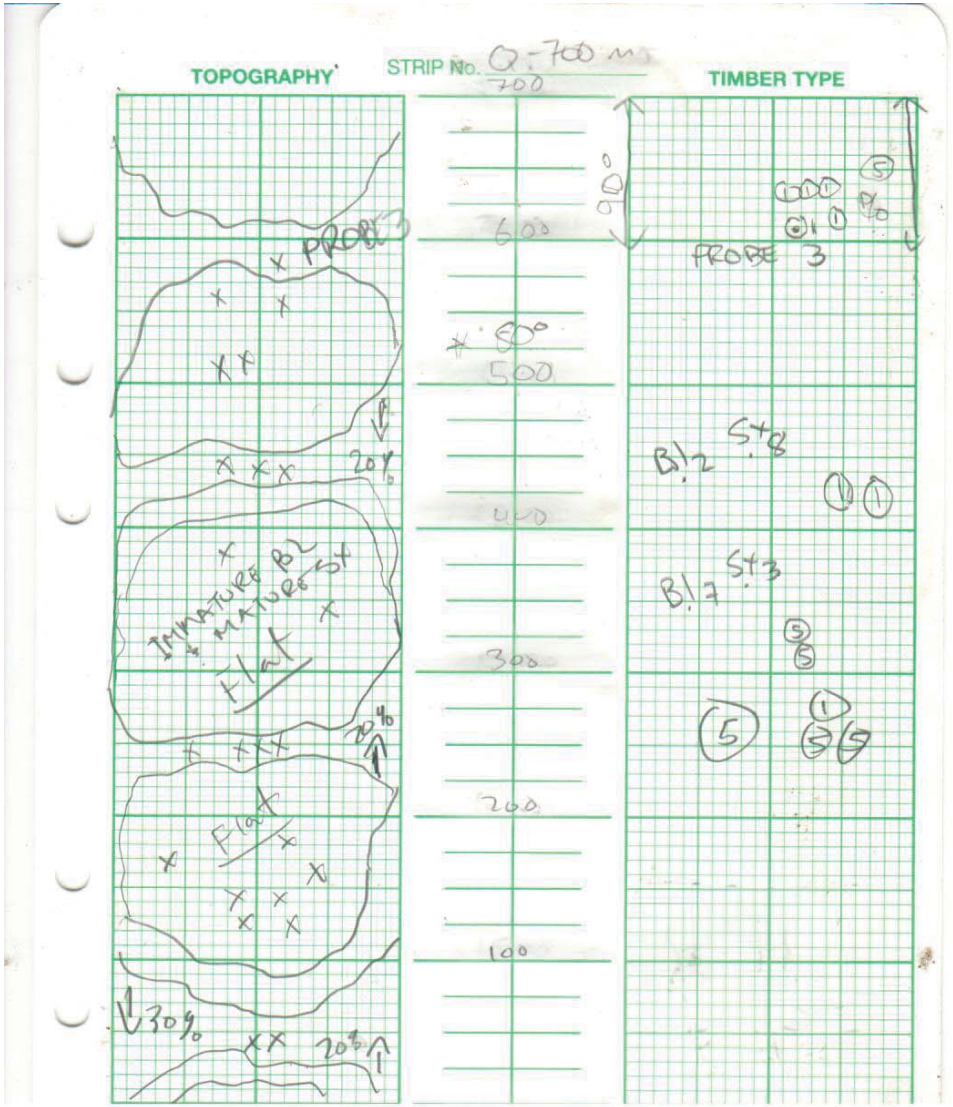
START STRIP: 700-1400

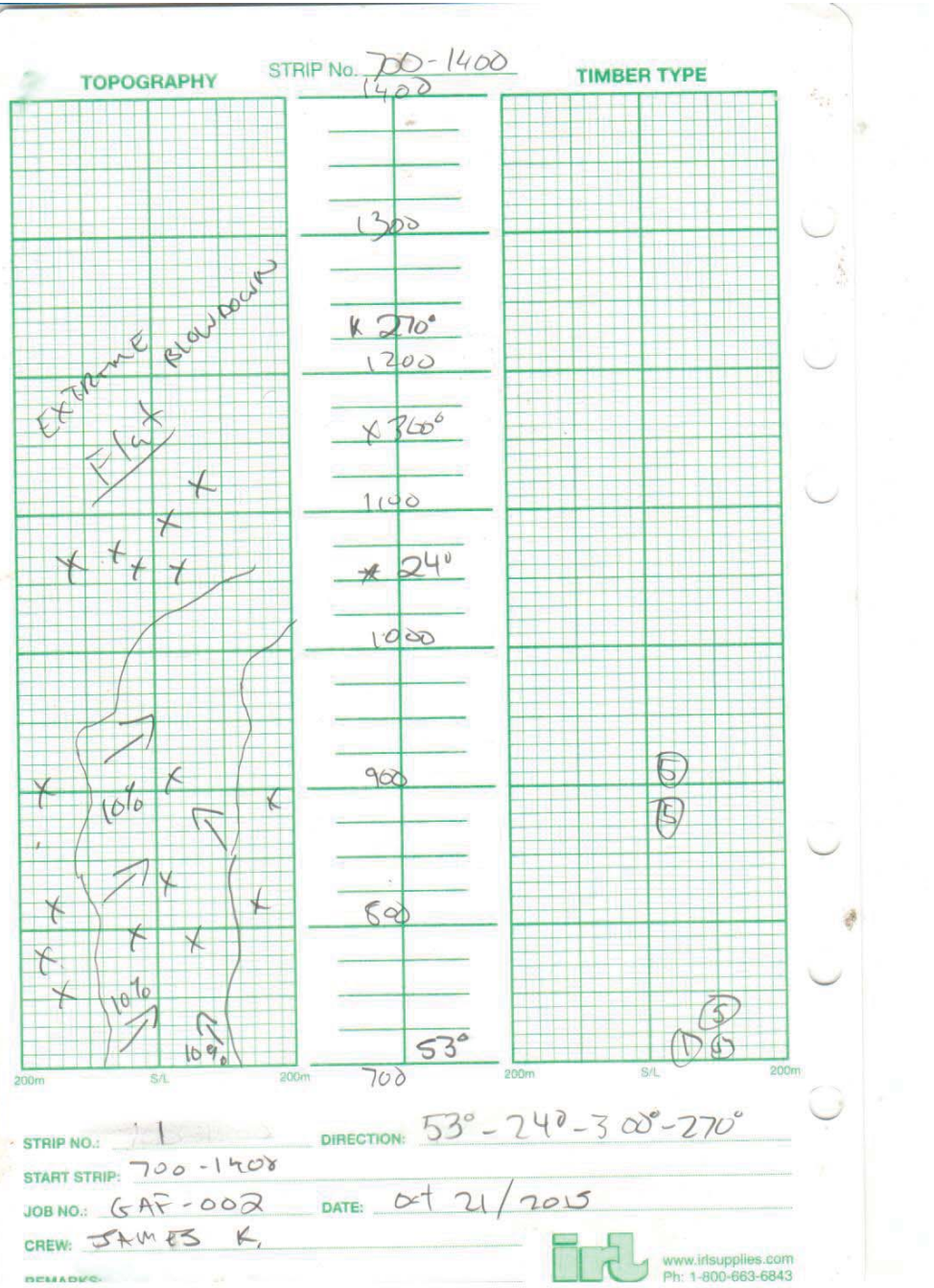
JOB NO.: Seneca/walk DATE: Oct 20, 15

CREW: Pat Poirier

REMARKS:

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




STRIP NO.: 1 DIRECTION: 53° - 24° - 300° - 270°

START STRIP: 700 - 1400

JOB NO.: GAF-002 DATE: Oct 21/2015

CREW: JAMES K.

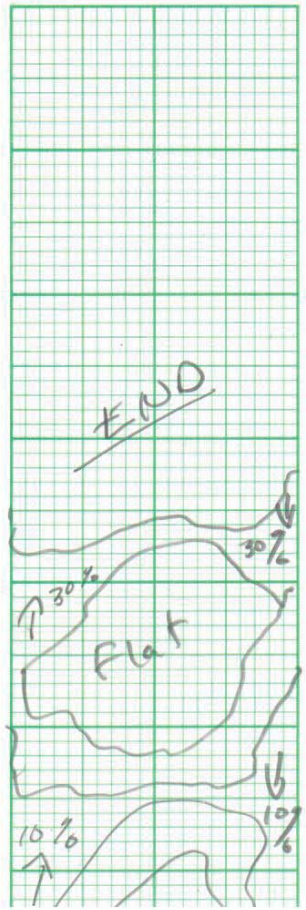
REMARKS:

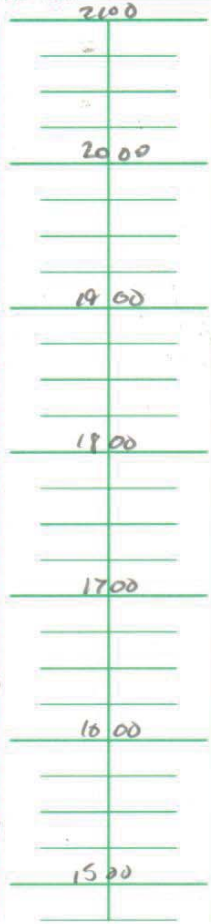
www.irlsupplies.com
Ph: 1-800-663-6843

TOPOGRAPHY

STRIP No. 1400-2100

TIMBER TYPE

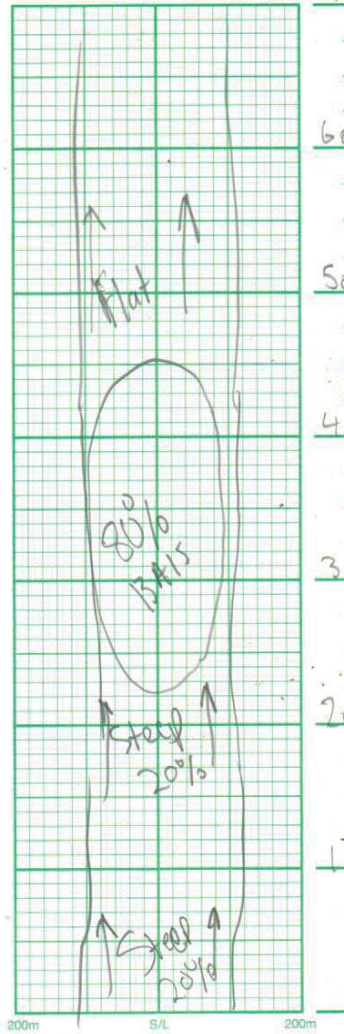


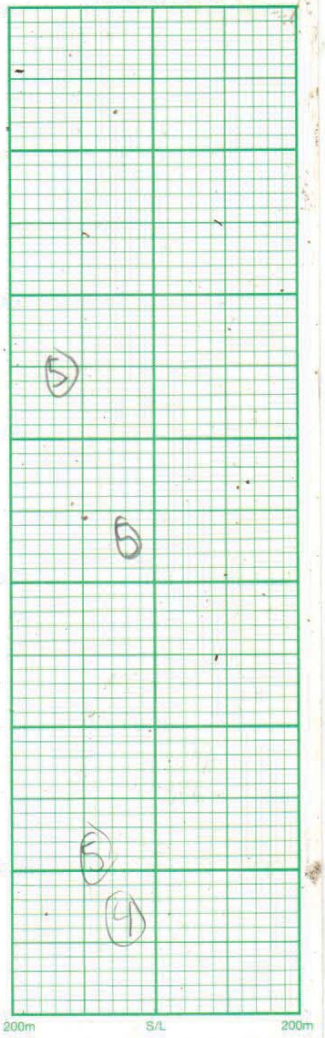




TOPOGRAPHY

STRIP No. 0-700

TIMBER TYPE




STRIP NO.: GAF-002 DIRECTION: 71°, 449°

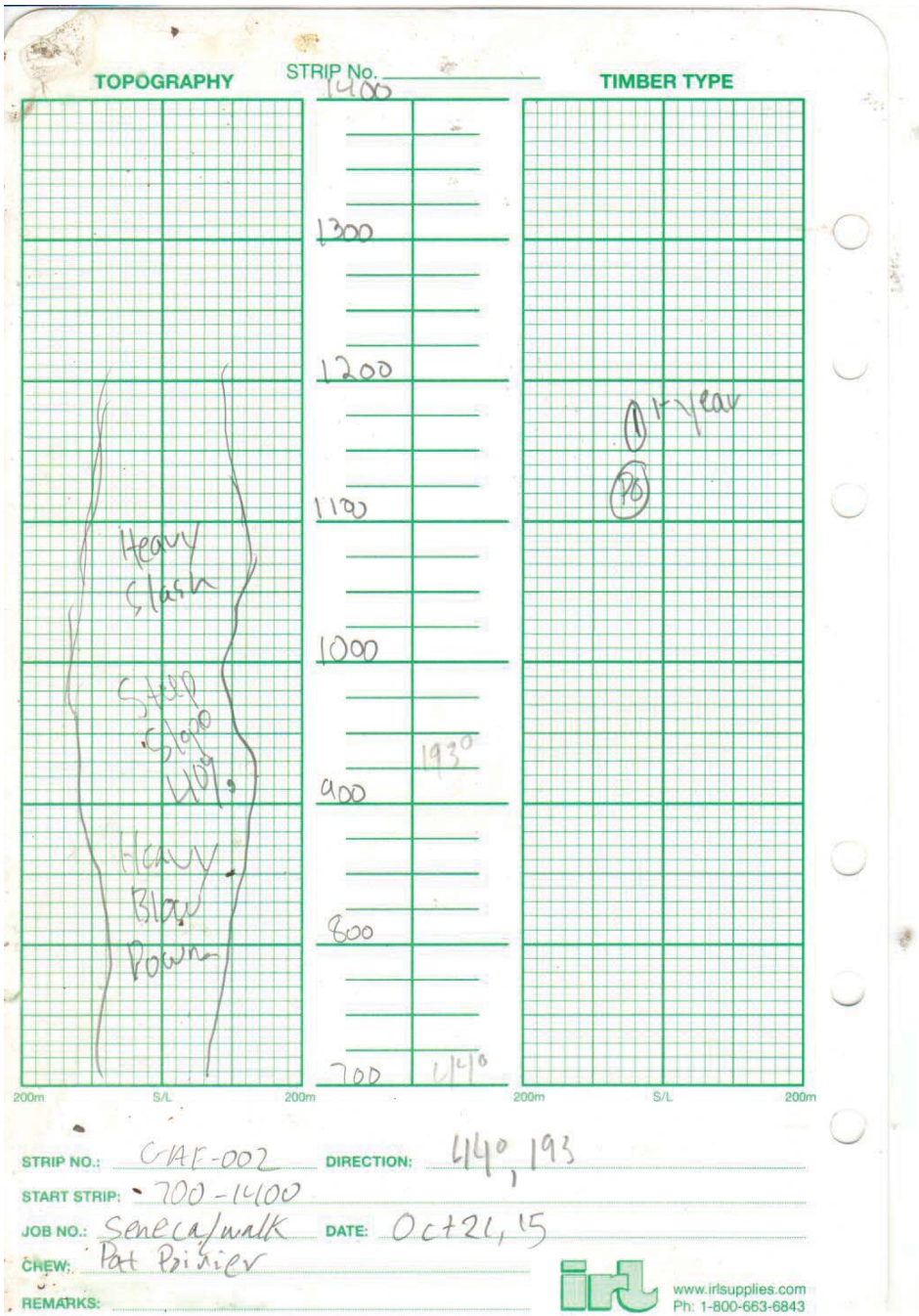
START STRIP: 0-700

JOB NO.: Seneca/wdk DATE: Oct 21, 15

CREW: Pat Poirier

REMARKS:

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




STRIP NO.: GAF-002 DIRECTION: 140°, 193

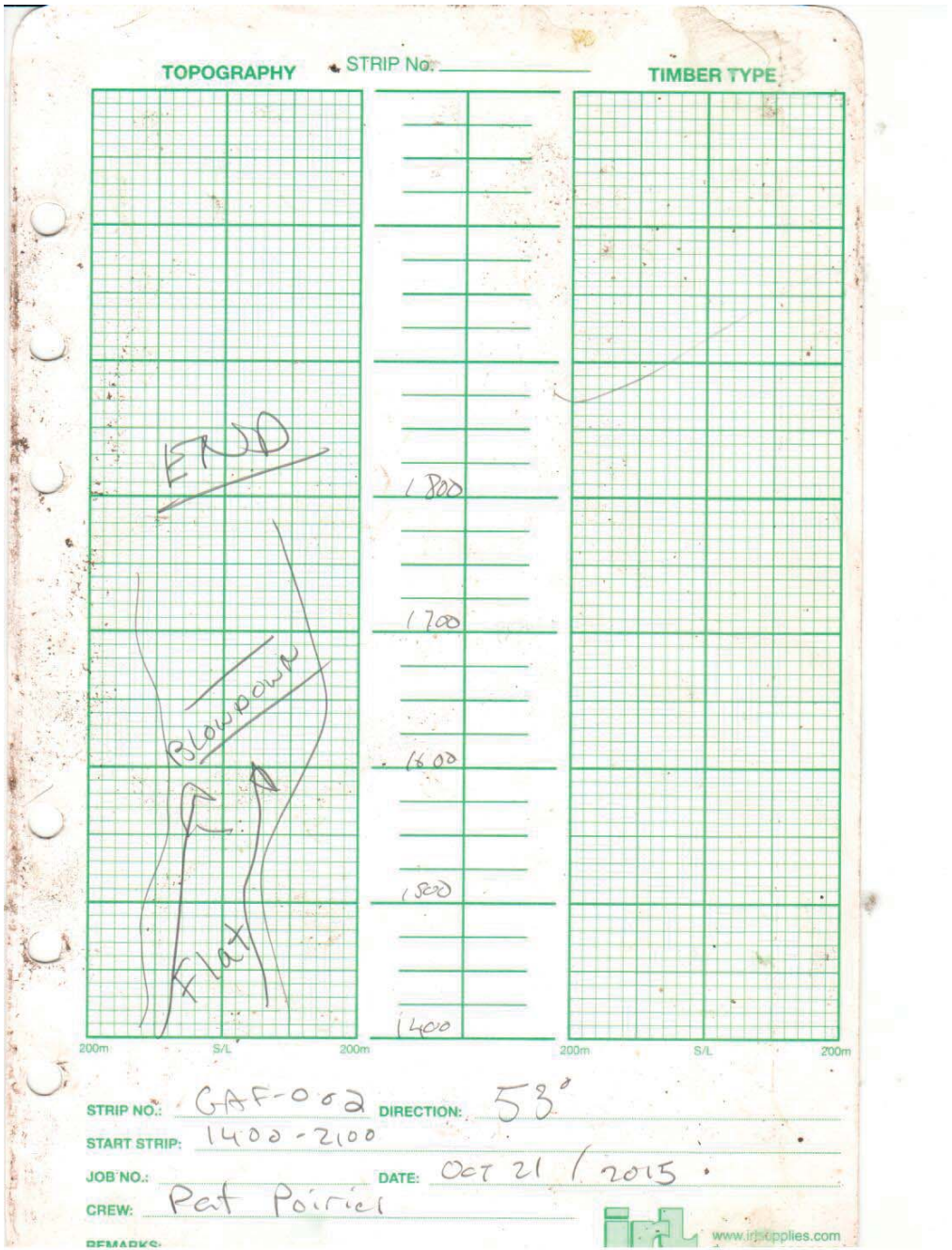
START STRIP: 700 - 1400

JOB NO.: Seneca/walk DATE: Oct 24, 15

CREW: Pat Poirier

REMARKS:

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




STRIP NO.: GAF-002 DIRECTION: 53°

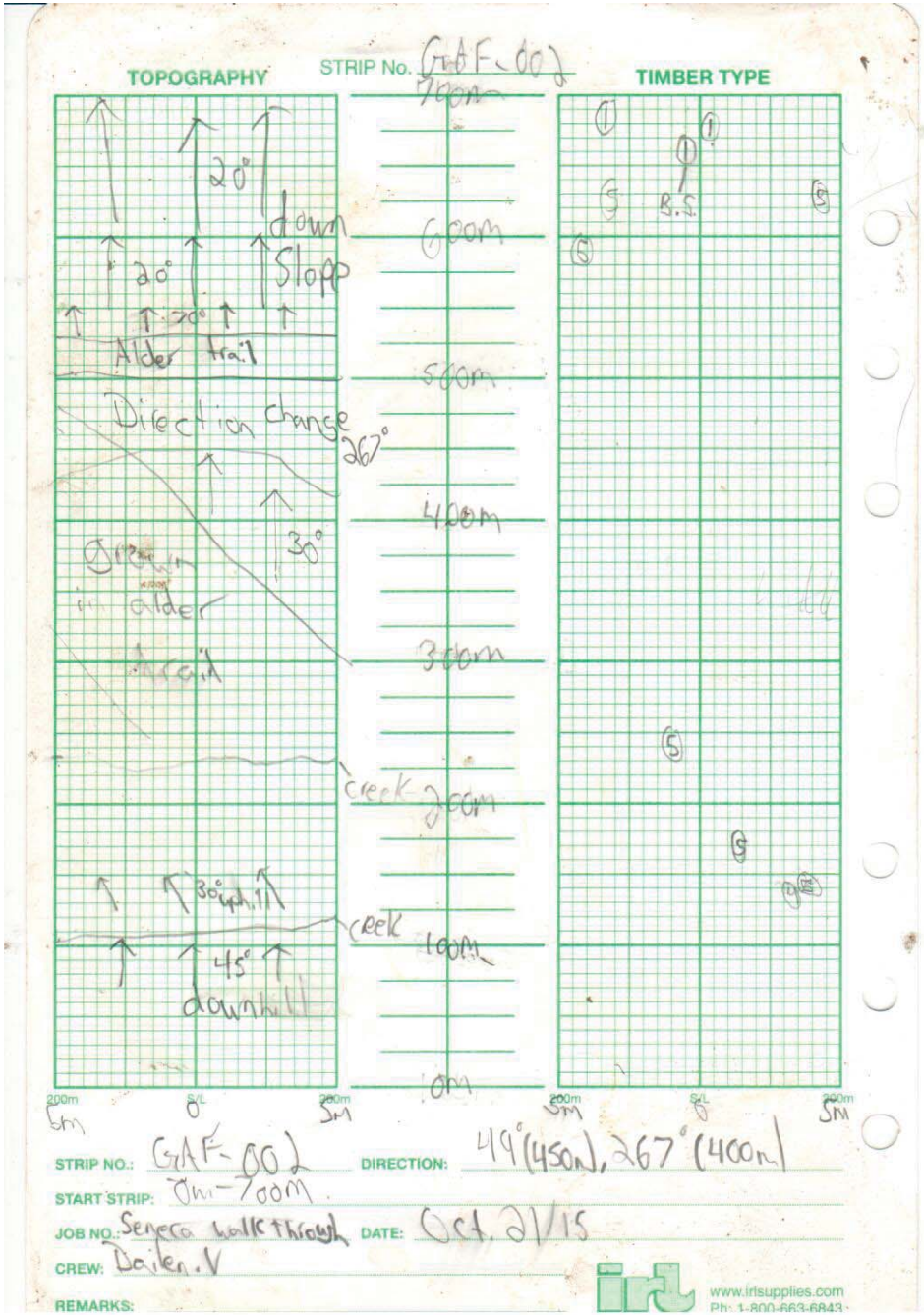
START STRIP: 1400 - 2100

JOB NO.: DATE: Oct 21 / 2015

CREW: Pat Poirier

REMARKS:

www.irlsupplies.com




STRIP NO.: GAF-002 DIRECTION: 49°(450m), 267°(400m)

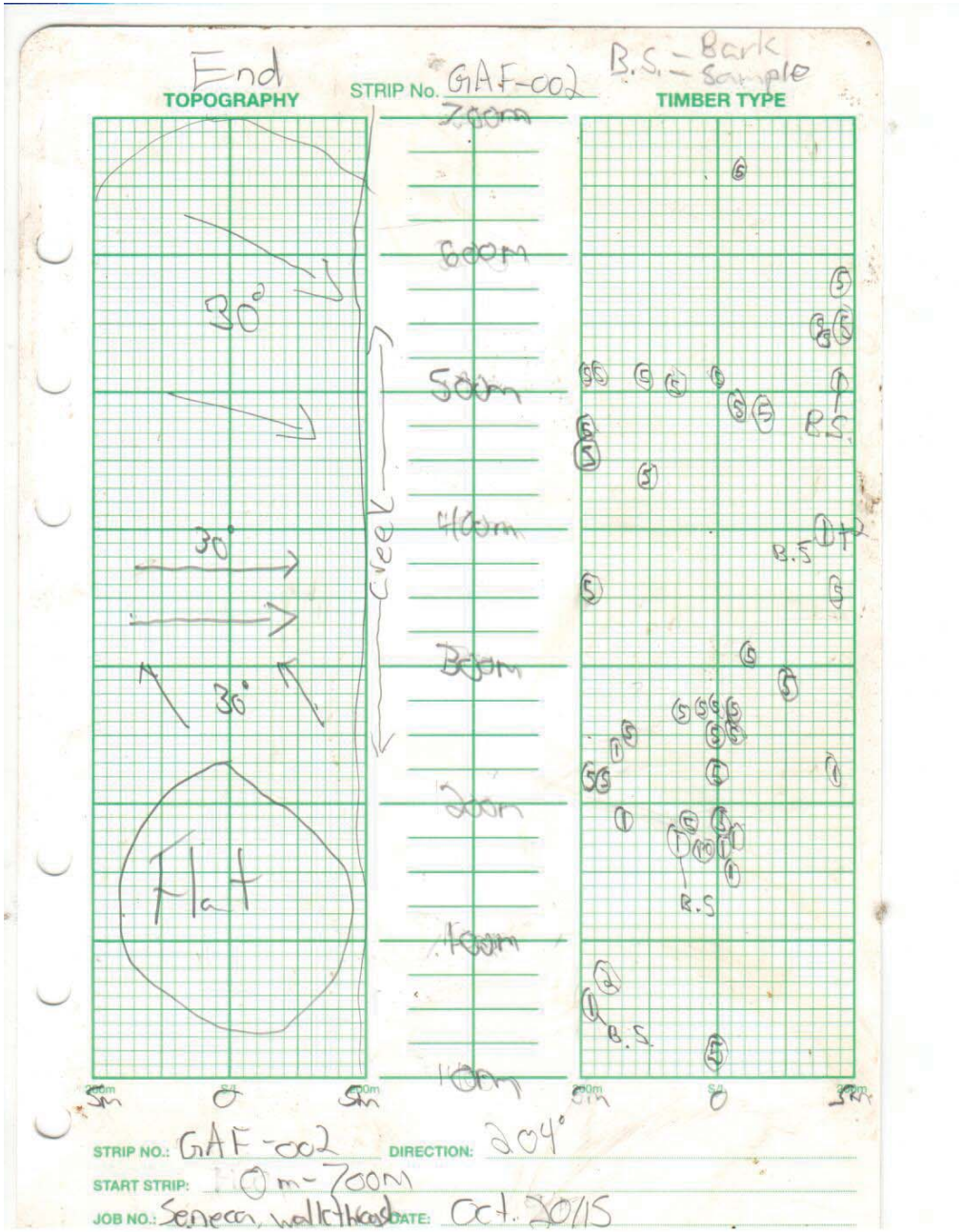
START STRIP: 0m-700m

JOB NO.: Seneca walkthrough DATE: Oct. 21/15

CREW: Daiken. V

REMARKS:

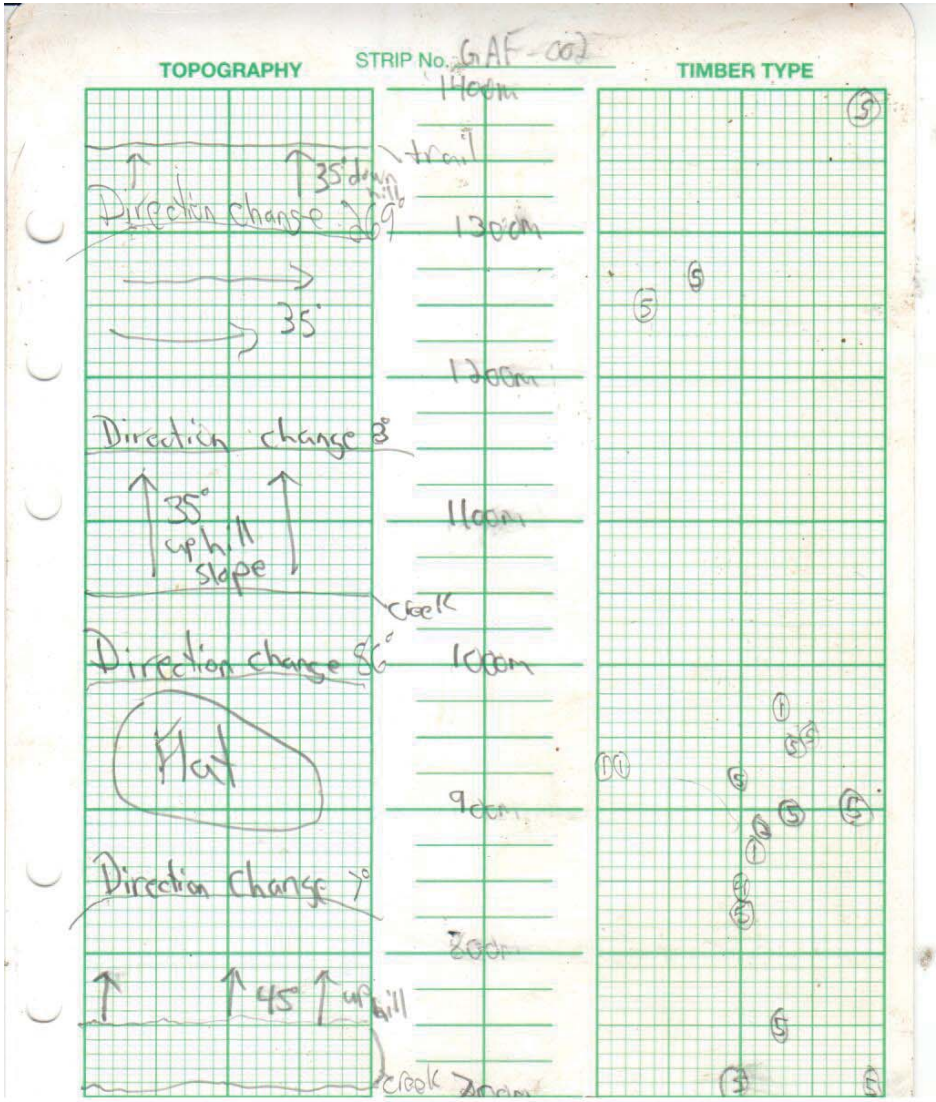
irl
www.irlsupplies.com
Ph: 1-800-663-6843

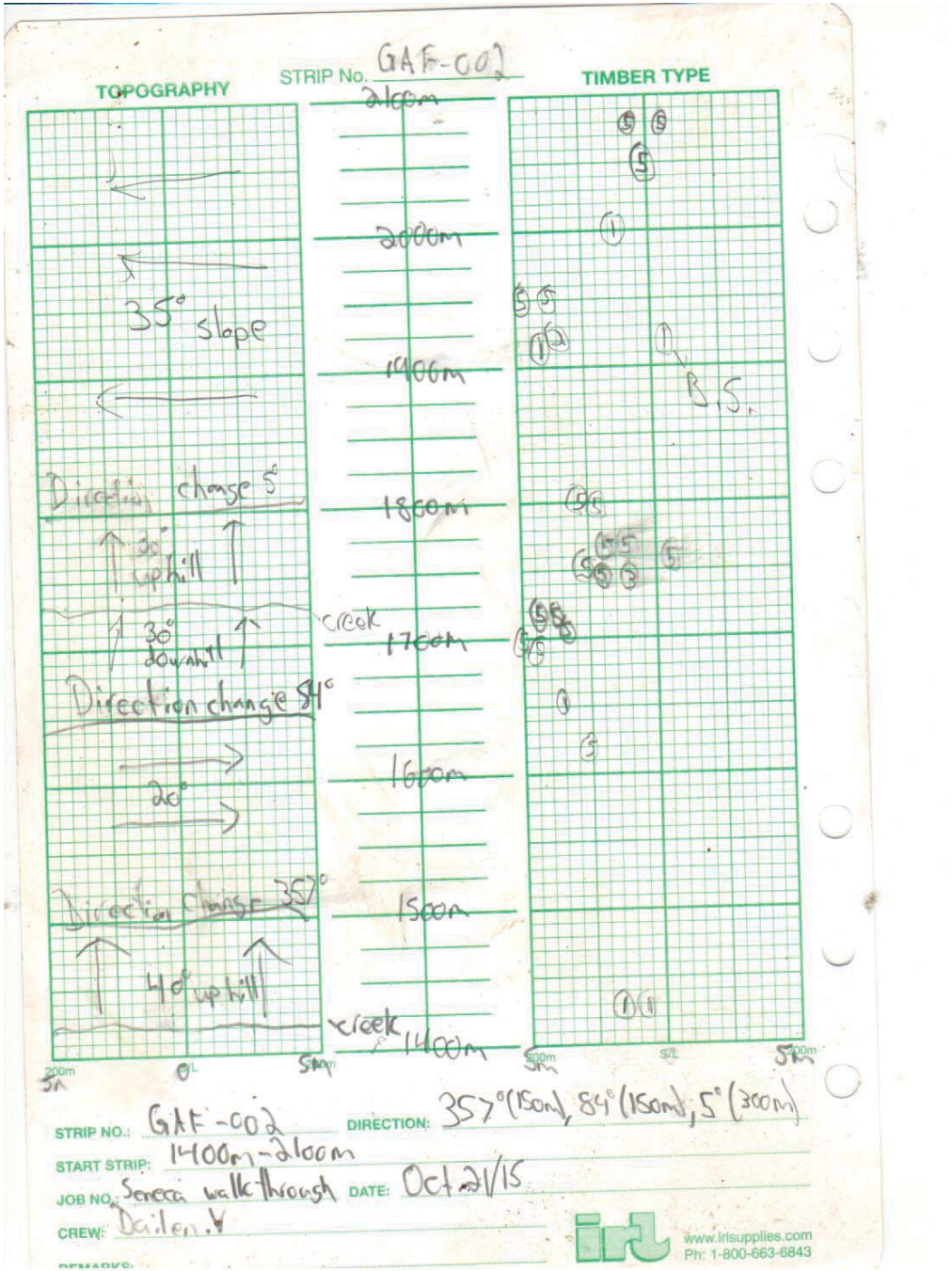


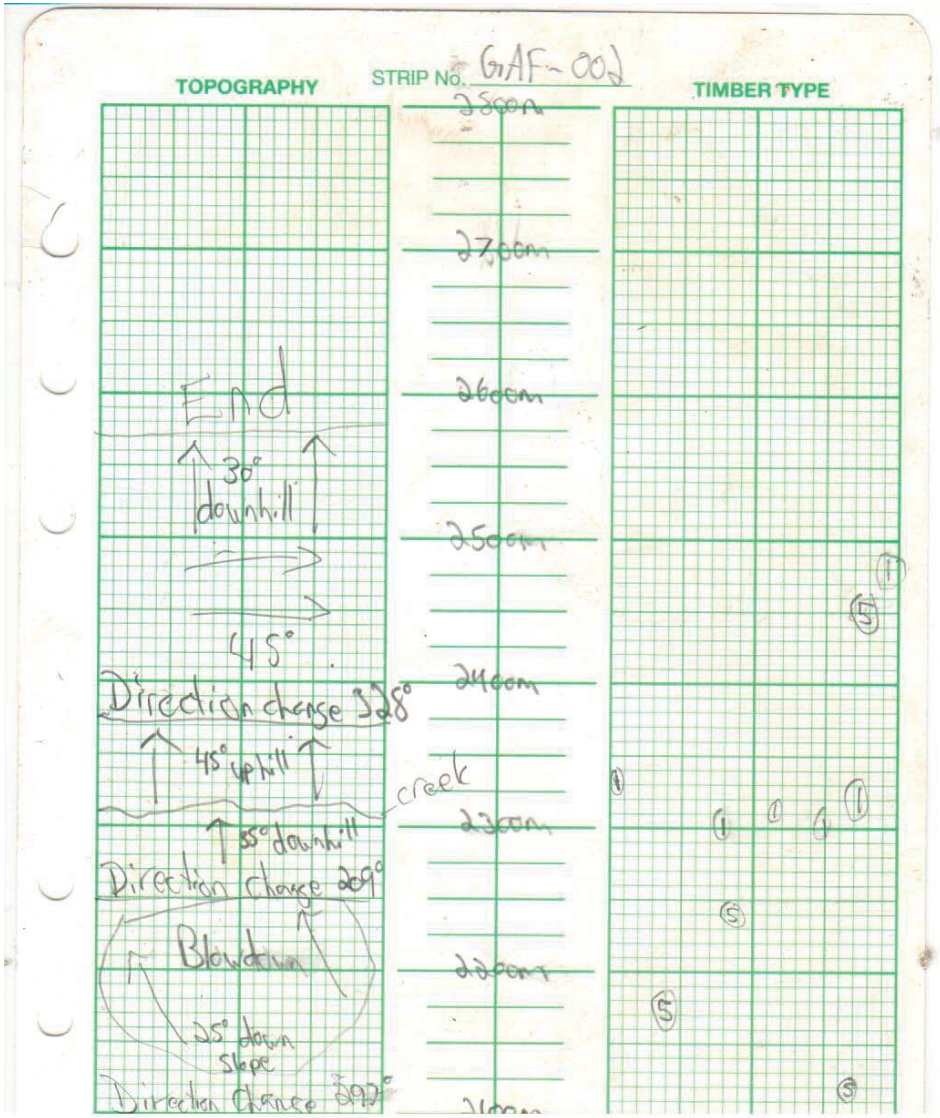

STRIP NO.: GAF-002 DIRECTION: 204°

START STRIP: 0m-700m

JOB NO.: Seneca walkthrough DATE: Oct. 20/15


TOPOGRAPHY
STRIP No. GAF-002
TIMBER TYPE
1400m
trail
35° downhill
Direction change 69°
1300m
35°
1200m
Direction change 8°
35° uphill slope
1100m
creek
Direction change 86°
1000m
Flat
900m
Direction change 7°
800m
45° uphill
creek 700m


TOPOGRAPHY
STRIP No. GAF-002
TIMBER TYPE
2100m
2000m
35° slope
1900m
1800m
Direction change 5°
20° uphill
30° downhill
creek
1700m
Direction change 84°
1600m
20°
1500m
Direction change 357°
40° uphill
creek
1400m
200m
0/L
500m
B.S.
STRIP NO.: GAF-002
DIRECTION: 357°(150m), 84°(150m), 5°(300m)
START STRIP: 1400m-2100m
JOB NO.: Seneca walkthrough
DATE: Oct 21/15
CREW: Daiden.V
REMARKS:
www.irlsupplies.com
Ph: 1-800-663-6843


TOPOGRAPHY
STRIP No. GAF-002
TIMBER TYPE
End
30° downhill
45°
Direction change 328°
45° uphill
creek
35° downhill
Direction change 269°
Elevation
25° down slope
Direction change 302°