Polygon Name: 2015-GAF-016

435000 436000 437000 438000

6154000 6153000 6152000 6151000

A15384
CP_D46
25/10/2005
ACTIVE

1 CODE 3, 1 CODE 5

MORE CONCENTRATED AREAS OF DEAD PINE

FRESH CONIFEX RD AND BOUNDARY FLAG

Munro Creek

GAF016-P1
C5&C3
START-GAF-016
START-GAF-016B
GAF016-P2
CONIFEX-RD-FLAG
CONIFEX-BDY-FLAG

Ministry of Forests, Lands and Natural Resource Operations

Spruce Bark Beetle Field Map

Polygon Name: 2015-GAF-016

Landscape Unit/BMU:	Gaffney
Region:	Omineca
District:	Mackenzie
Mapsheet:	093N09
Hectares:	110.62
Scale:	1:10,000
When plotted on ANSIC	
Coordinate System:	NAD 1983 UTM Zone 10N
Datum:	North American 1983
Date Drawn:	01/11/2015
Drawn By:	msnively

Map Features

- Susceptible Spruce
- 2013 SB Hazard Rating (
- Hazard Classes
- Low/Med (21-40)
- Med (41-60)
- High (61-80)
- Very High (81-100)
- VRI Polygon
- Cutting Permit
- RESULTS Opening
- Landscape Unit
- Road Permit Active
- Road Permit Pendi
- Km_Marker_Points
- Communities

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: **2015-GAF-016** HECTARES: 110.62

WALKTHROUGH DISTANCE: 4800

ESTIMATED INFFESTED PIXELS FROM WALKTHROUGH (Code 1-4) 1 **2.1%**

SUMMARY OF CURRENT INFESTATION

Walkthrough found one Code three attack and a couple older attacked code 5's. About a third of the polygon has areas of heavy dead pine. Steeper slopes run up to the west. Walked through higher risk areas with drainages covered and areas with higher spruce with very liught scattered attack.

VERY LIGHT SCATTERED ATTACK

ACCESS

Heavy wet snow, sledded along Munroe Mainline than walk into polygon.

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

Drainage runs through middle of polygon and splits in the east. Very steep slope running up in the west, 0-60%. Large areas of dead pine throughout stand. Overall low amount of spruce and walked areas where spruce located. Fresh Conifex flag in West Corner.

SIZE, BOUNDARY and PATTERN OF INFESTATION

Walkthrough found one recent infested pixel (Code 3) and one coode 5. Very light and scattered attack and areas of heavy dead pine throughout.

INCIDENCE AND SEVERITY OF ATTACK

Two probe lines taken where spruce more concentrated, one code 5 noticed, no current attack. Outside of probe lines, found onel Code 3 isolated attack

RISK OF BEETLE SPREAD

Polygon surrounded by cutblocks and light scattered attack with only one code 3 attacked tree found. Some older atack notcied,

ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES

Good access, had to sled to get in as at time of probe very heavy wet snow. Some steeper slopes and drainages run through. Fresh Conifex flag in East portion of Polygon (Road and Boundary Flag)

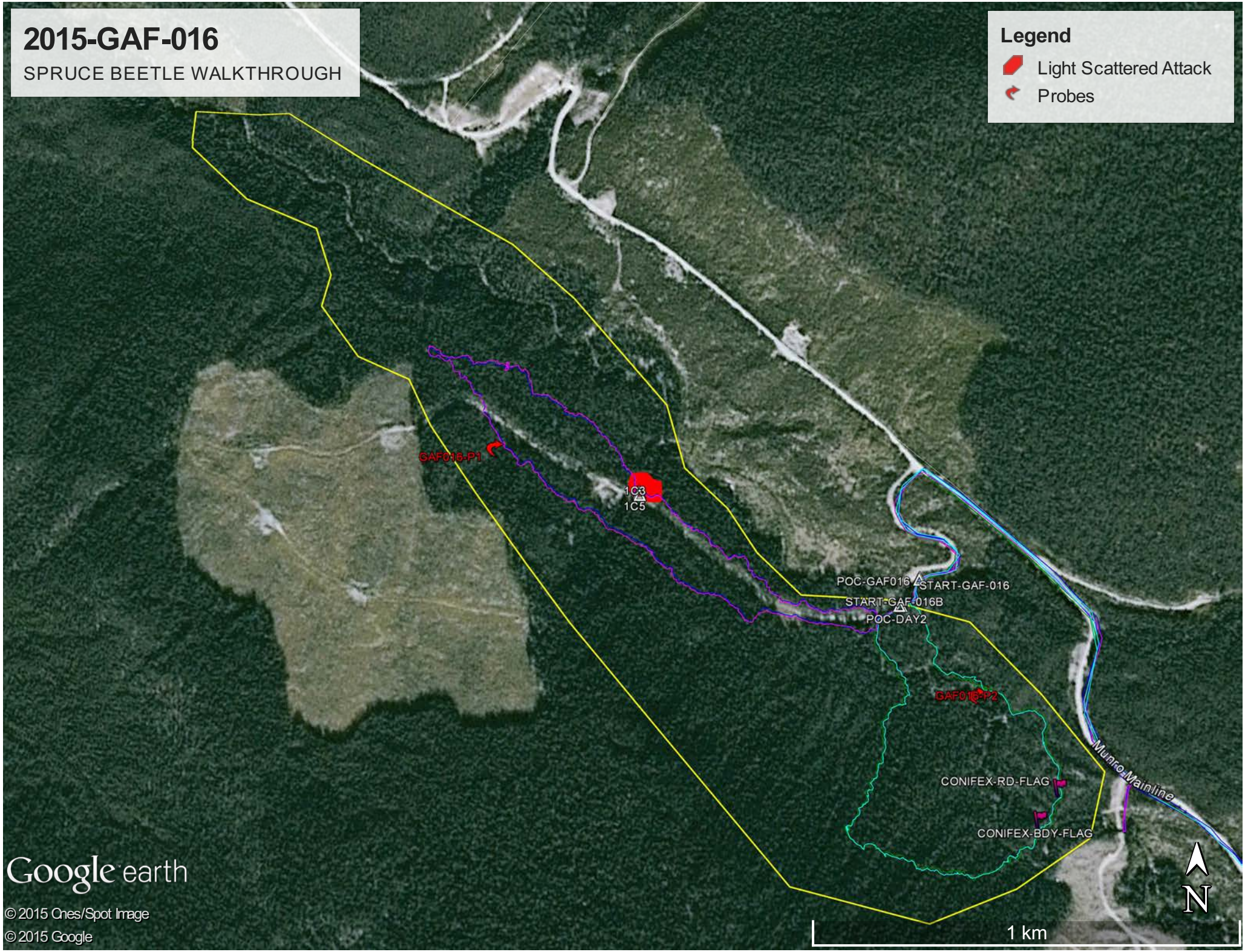
RECOMMENDATIONS

OPTION 1 **NO ACTION**

With only One recent attacked tree found, no action required. Walked through drainages with little to no evidence of current attack

OPTION 2 **MONITOR**

As good access, could reschedule a walkthrough 2016/2017 to track any changes.


2015-GAF-016
SPRUCE BEETLE WALKTHROUGH
Legend
Light Scattered Attack
Probes
GAF016-P1
1C3
1C5
POC-GAF016
START-GAF-016
START-GAF-016B
POC-DAY2
GAF016-P2
CONIFEX-RD-FLAG
CONIFEX-BDY-FLAG
Munro Mainline
N
1 km
Google earth
© 2015 Cnes/Spot Image
© 2015 Google

Summary

2015-GAF-016	HEC	110.62	METERS WALKED	4800	% TRAVERSED	4.3%
PIXELS COVERED BY WALKTHROUGH	48	INFESTED PIXELS	1	**ESTIMATED % OF BLOCK INFESTED (From Walk through)**		**2.1%**

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	26.4	0.0	0.0	0.0	0.0	0.0	0.0	69.3
25.1-30.0	5.3	58.3	0.0	0.0	0.0	0.0	0.0	0.0	106
30.1-35.0	7.1	113.6	0.0	0.0	0.0	0.0	0.0	0.0	120.7
35.1-40.0	9.4	47	0.0	0.0	0.0	0.0	0.0	0.0	47
40.1-45.0	11.6	81.2	0.0	0.0	0.0	0.0	0.0	0.0	0
45.1-50.0	13.8	96.6	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	56.1	0.0	0.0	0.0	0.0	0.0	0.0	0
60.1 +	25.3	75.9	0.0	0.0	0.0	0.0	0.0	0.0	0
TOTALS	555.1	555.1	0.0	0	0.0	0.0	0.0	0	343

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
0.00	< 3.9 SEVERE Attack Density	0.00	>24.9 EXTREME Mean Larval Density

TABLE 2- Spruce Beetle Management Options after Walkthrough

			SANITATION AND SALVAGE HARVEST PRIORITY RATING			
% 2015 ATTACK	0.0%	0.0				
% 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	61.8%	##	HEAVY	1000+	RECOMMEND CRUISING/ LOGGING	

From 2 probe lines, no attack found, m

SUMMARY OF ALL CARDS FS1111

NUMBER OF CARDS 2

ACCESS - Heavy wet snow, sledded along Munroe Mainline than walk into polygon.

POLYGON FEATURES - Drainage runs through middle of polygon and splits in the east. Very steep slope running up in the west, 0-60%. Large areas of dead pine throughout stand. Overall low amount of spruce and walked areas where spruce located. Fresh Conifex flag in West Corner.

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	8	0	0	0	0	0	0	10	11
25.1-30.0	5.3	11	0	0	0	0	0	0	10	10
30.1-35.0	7.1	16	0	0	0	0	0	0	9	8
35.1-40.0	9.4	5	0	0	0	0	0	0	4	1
40.1-45.0	11.6	7	0	0	0	0	0	0	0	0
45.1-50.0	13.8	7	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	3	0	0	0	0	0	0	0	0
60.1 +	25.3	3	0	0	0	0	0	0	0	0
TOTALS		60	0	0	0	0	0	0	33	30

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
2	0	0	0	0	0	0	0	0

SIZE, BOUNDARY AND PATTERN OF THE INFESTATION

Walkthrough found one recent infested pixel (Code 3) and one coode 5. Very light and scattered attack and areas of heavy dead pine throughout.

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

Good access, had to sled to get in as at time of probe very heavy wet snow. Some steeper slopes and drainages run through. Fresh Conifex flag in East portion of Polygon (Road and Boundary Flag)

P2

BRITISH COLUMBIA — BEETLE PROBE CARD

LOCATION	ELEVATION	LATITUDE	PAGE	OF
GAF 016 0436838 6151802	030			

BEARING	STRIP LINE NO	STRIP WIDTH	DISTANCE	BEETLE SPECIES
315°	2	10	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 B1	OTHER P1
12.5 - 17.4	2.0									
17.5 - 25.0	3.3	12							12	8
25.1 - 30.0	5.3	11							2	2
30.1 - 35.0	7.1	5							0	
35.1 - 40.0	9.4	1								
40.1 - 45.0	11.6	1								
45.1 - 50.0	13.8	1								
50.1 - 55.0	16.2									
55.1 - 60.0	18.7	1								
60.1 -	25.3	2								
TOTALS		38							14	13

BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (GREEN) BLOWDOWN Attacked	Unattacked
/							
/							

COMMENTS
- LINE IN APK.
- ALONG CREEK.

CREW NAMES	DATE Y	M	D
JAMES / PAT	15	12	16

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

P1

BRITISH COLUMBIA — BEETLE PROBE CARD

LOCATION	ELEVATION	LATITUDE	PAGE	OF
GAF 016 0435751 6152381	1084			

BEARING	STRIP LINE NO	STRIP WIDTH	DISTANCE	BEETLE SPECIES
145°	1	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 B1	OTHER P1
12.5 - 17.4	2.0									
17.5 - 25.0	3.3	2							0	2
25.1 - 30.0	5.3	1							2	5
30.1 - 35.0	7.1	3							4	4
35.1 - 40.0	9.4	2							2	1
40.1 - 45.0	11.6	1								
45.1 - 50.0	13.8									
50.1 - 55.0	16.2									
55.1 - 60.0	18.7									
60.1 -	25.3									
TOTALS		21							15	17

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 CURRENT ATTACK.
- LINE IN PINK

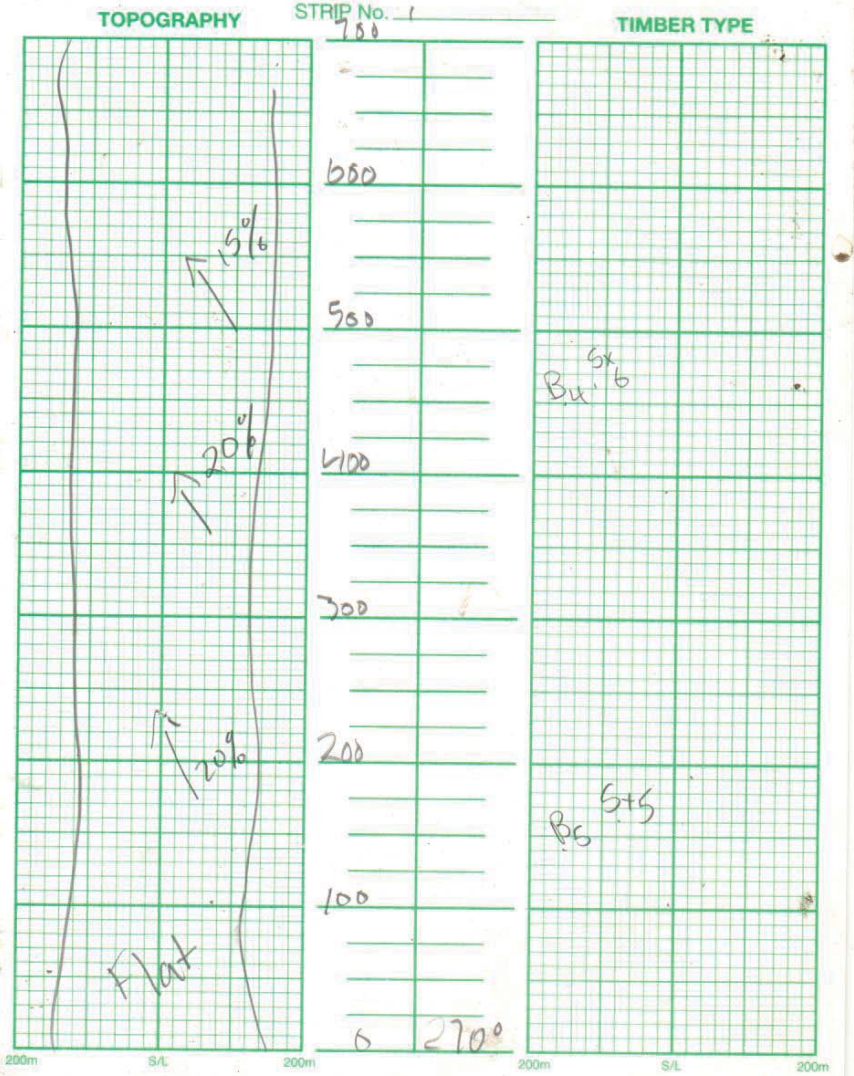
CREW NAMES	DATE Y	M	D
JAMES / PAT	15	12	15

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

TOPOGRAPHY

STRIP No. 1

TIMBER TYPE



STRIP NO.: 1 DIRECTION: 270°

START STRIP: 0-700

JOB NO.: GAF-016 DATE: Dec 15, 15

CREW: Pat/James

REMARKS:

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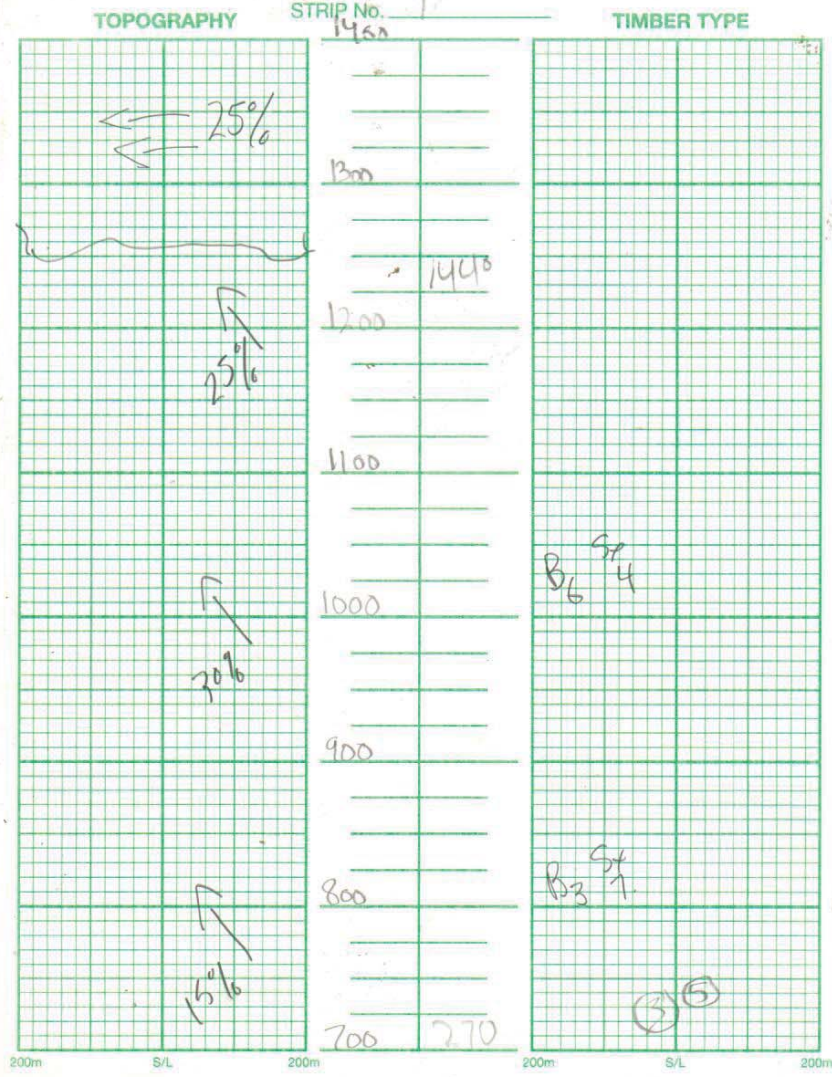
Ph: 1-800-663-6843

TOPOGRAPHY

STRIP No. 1

TIMBER TYPE



STRIP NO.: 1 DIRECTION: 210°, 144°

START STRIP: 700-1400

JOB NO.: GAF-016 DATE: Dec 15, 15

CREW: Pat/James

REMARKS:

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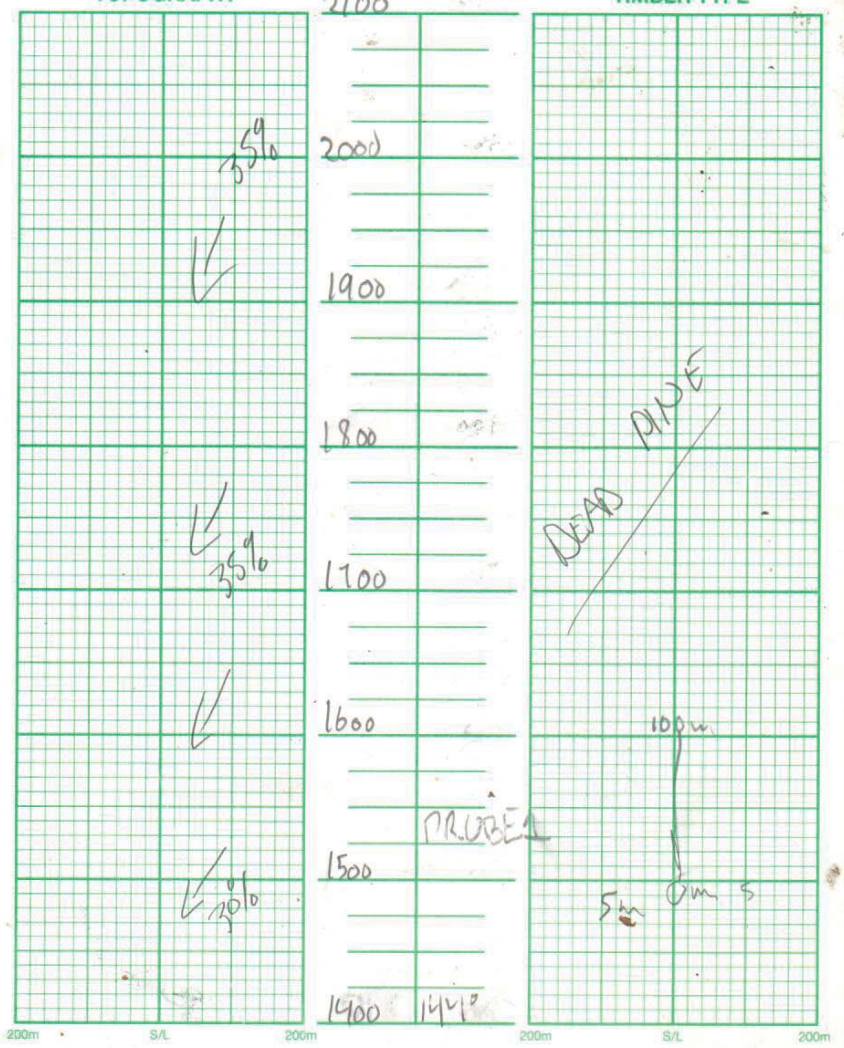
TOPOGRAPHY

STRIP No. 1

TIMBER TYPE



STRIP NO.: 1 DIRECTION: 144°

START STRIP: 1400 - 2100

JOB NO.: GAF-016 DATE: Dec 15, 15

CREW:

REMARKS:

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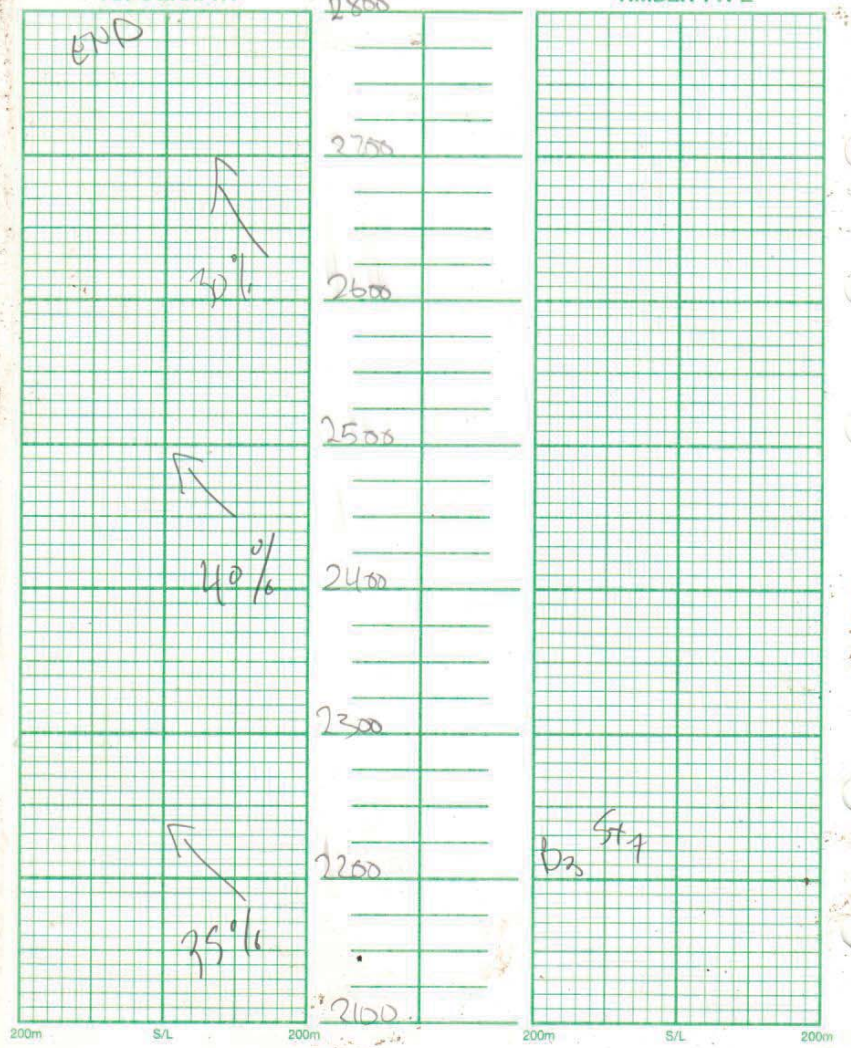
STRIP No. 1

TIMBER TYPE



STRIP NO.: 1 DIRECTION:

START STRIP: 2100 - 2800

JOB NO.: GAF-016 DATE: Dec 15, 15

CREW: Pat / James

REMARKS:

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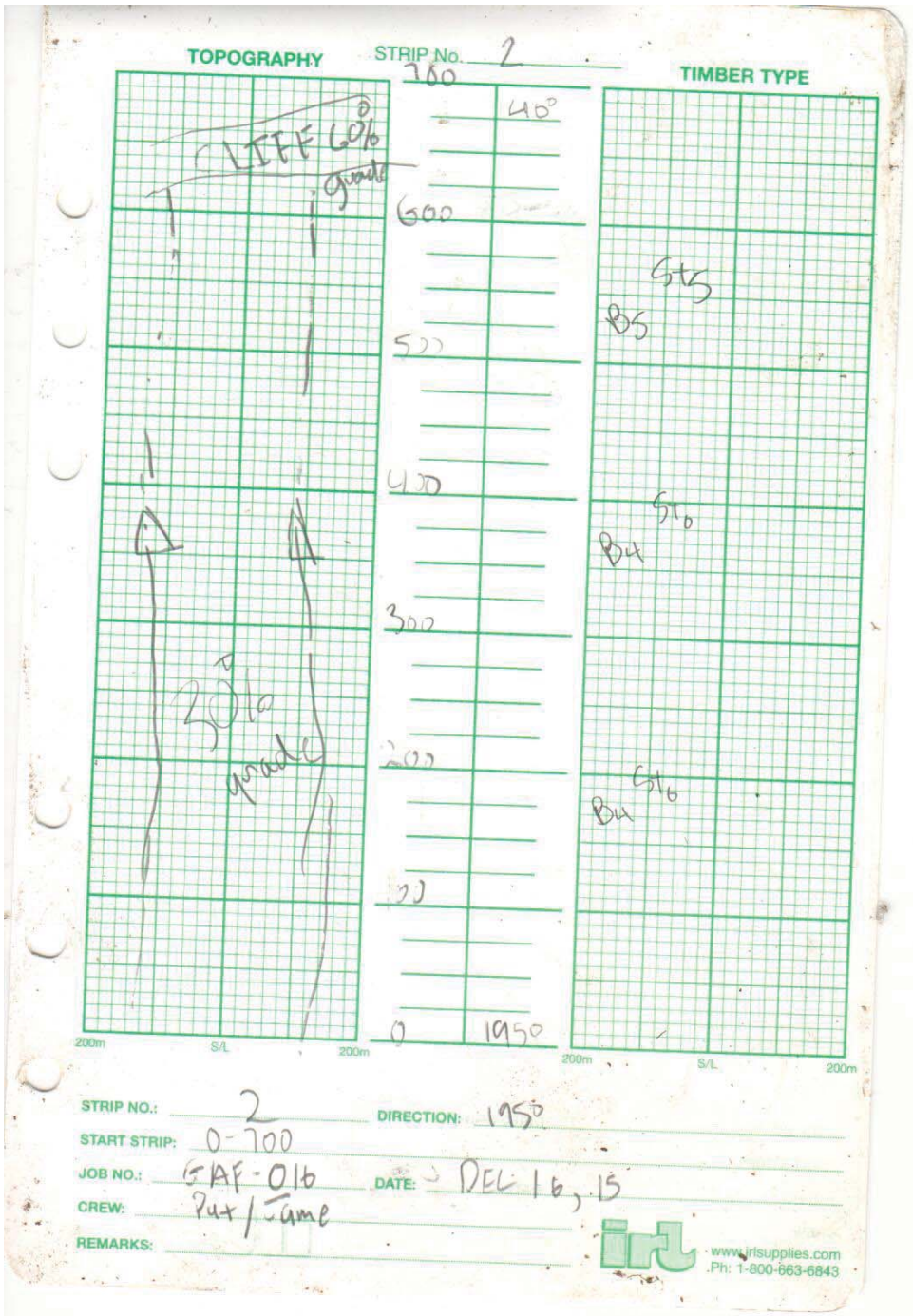

STRIP NO.: 2 DIRECTION: 195°

START STRIP: 0-700

JOB NO.: GAF-016 DATE: DEC 16, 15

CREW: Pat / Jame

REMARKS:

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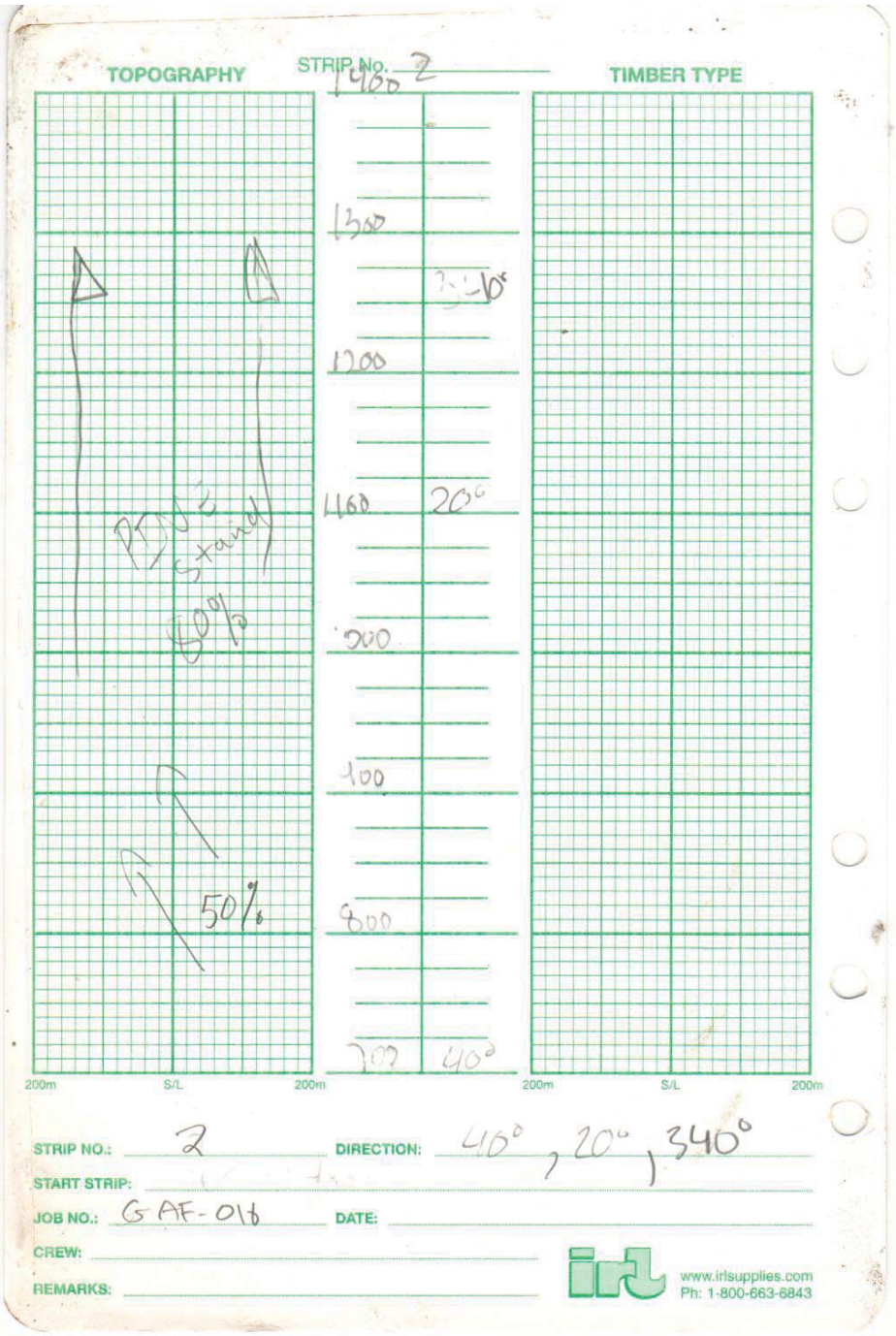

STRIP NO.: 2 DIRECTION: 40°, 20°, 340°

START STRIP:

JOB NO.: GAF-016 DATE:

CREW:

REMARKS:

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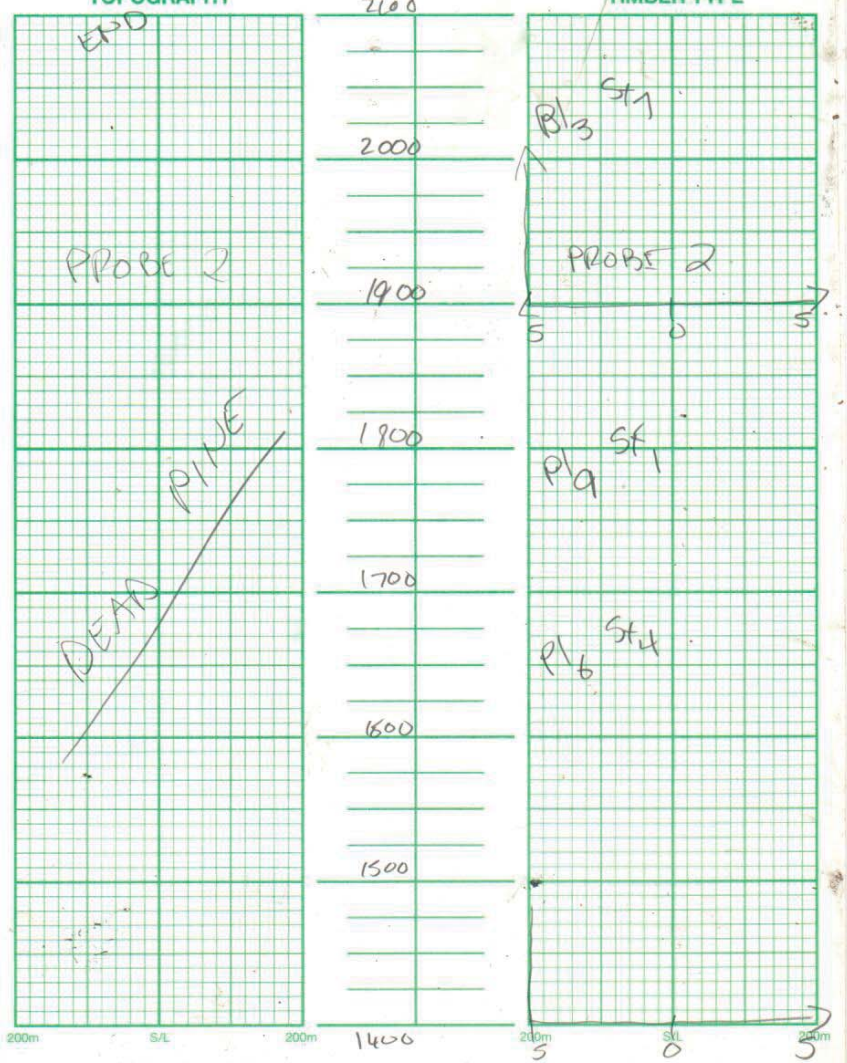
STRIP No. 2

TOPOGRAPHY



TIMBER TYPE

STRIP NO.: 2 DIRECTION: 340°

START STRIP: 1400

JOB NO.: GAF-016 DATE: DEC 16 / 2015

CREW:

REMARKS:

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