

Memorandum

To: Tony Scardina
CC: Stan Kobielski
From: Douglas Archer
Date: 4/16/2008
Re: OGM 243 DUHRING 17W

Prior to the cruise of OGM 243 DUHRING 17W, a precruise was done to determine cruise design for the sale. Tree populations indicated that four species could be cruised using sample tree method along with pulpwood trees. Those four species were black cherry, red maple, sugar maple, and beech/birch and all were placed under strata 1. The completed cruise ended up with a sale error of 10.83%. After close inspection of the tree data and stratum errors (which were below the 40% error as mandated in the Timber Cruising Handbook) I made the decision to leave cruise as is due to the error being less than 1% over 10. The Timber Sale Handbook (FSH 2409.12 CH40 41.1 EXHIBIT 01) states that the "Maximum Sampling error for the Sale as Whole Volume Error Standard" for a Estimated Sale Value of > 95,000 on a tree measurement sale must be + or - 10%. The sale then actually meets this requirement with a +.83%.

As requested, I randomly sampled 10 additional black cherry trees. The additional samples dropped the sale error from 10.83% to 9.42%. Complete comparisons of volume and appraised value are shown in Pete Sanda's report.

CONFIDENTIAL

Duhring 30684

Appraise Date: 10/10/2007

Sale Error: 10.83

Species	Volume	Prices 2008		Prices 2007	
		Advertised Rates	Price	Advertised Rates	Price
BC	179	835.46	149,547.34	819.46	146,683.34
RM	113	99.27	11,217.51	94.45	10,672.85
SM	15	218.7	3,280.50	207.58	3,113.70
YB	8	38.17	305.36	41.99	335.92
MH	234	2.5	585.00	2.5	585.00
Totals	549		\$164,935.71		\$161,390.81

Appraise Date: 4/9/2008

Sale Error: 9.42

Species	Volume	Prices 2008		Prices 2007	
		Advertised Rates	Price	Advertised Rates	Price
BC	178	835.46	148,711.88	819.46	145,863.88
RM	113	99.27	11,217.51	94.45	10,672.85
SM	15	218.7	3,280.50	207.58	3,113.70
YB	8	38.17	305.36	41.99	335.92
MH	229	2.5	572.50	2.5	572.50
Totals	543		\$164,087.75		\$160,558.85

Sale Id: 0004580684	TE Effective Date:			01-JAN-08	
Sale Name: OGM DUHRING RER	Date Appraised:			09-APR-08	
1. Product	1	1	1	1	2
Uom	3	3	3	3	3
Species	BC	RM	SM	YB	MH
3. Species Code	762	316	318	371	004
4. % By Species	32.8	20.8	2.8	1.5	42.2
5. Volume	178	113	15	8	229
6. Base Period Price	895.98	94.49	207.66	41.97	2.5
7a. Market Adjustment	86.91	22.3	49.63	2.94	0
7b. Quality Adjustment	0	0	0	0	0
8. Adj Base Price	982.89	116.79	257.29	44.91	2.5
9. Falling and Bucking	0	0	0	0	0
10. Skidding and Loading	0	0	0	0	0
11. Logging Adj	0	0	0	0	0
12. Base Haul Cost	22.08	22.08	22.08	22.08	.01
13. Sale Haul Cost	22.08	22.08	22.08	22.08	.01
14. Haul Cost Adj	0	0	0	0	0
15. Base Road Mtnc Cost	2.98	2.98	2.98	2.98	2.98
16. Sale Road Mtnc Cost	2.98	2.98	2.98	2.98	2.98
17. Road Mtnc Cost Adj	0	0	0	0	0
18. Base Contractual Cost	4.13	4.13	4.13	4.13	4.13
19. Sale Contractual Cost	4.13	4.13	4.13	4.13	4.13
Contractual Cost Adj	0	0	0	0	0
21. Base Temp Road Cost	3.98	3.98	3.98	3.98	3.98
22. Sale Temp Road Cost	3.98	3.98	3.98	3.98	3.98
23. Temp Road Cost Adj	0	0	0	0	0
26. Unusual Costs	0	0	0	0	0
30. Specified Road Cost	0	0	0	0	0
35. Total Adjustments	0	0	0	0	0
36. Stumpage Rates	982.89	116.79	257.29	44.91	2.5
38. Risk Adj	-147.43	-17.52	-38.59	-6.74	0
40. Ind Advertised Rate	835.46	99.27	218.7	38.17	2.5
41. Base Rates	117	42	42	13.79	1.9
42. Adj to Line 40 Rates	0	0	0	0	0
43. Advertised Rates	835.46	99.27	218.7	38.17	2.5
47. Timber Prop Value	0	0	0	0	0
48. Timber Prop Rates	0	0	0	0	0

Volume 543 CCF

Sale Price \$164,087.75

RUN DATE: 4- 9-2008
 CRUISE #: 30684
 SALENAME: OGM DUHRING RERUN
 SALE #: 30684
 INPUT FILE NAME: 30684.job
 REGION: 9

VOLUME EQUATION TABLE

SPECIES	PROD	VOLUME EQUATION	STUMP HEIGHT	TOTAL CUBIC VOLUME	PRIMARY ***** PRODUCT *****				SECONDARY ***** PRODUCT *****			Z SCORE
					MIN TOP DIB	BDFT	CUFT	CORDS	MIN TOP DIB	CUFT	CORDS	
316	01	903DVEE316	1.0	NO	.0	YES	NO	NO	.0	NO	NO	.000
316	01	912DVEE316	1.0	NO	.0	NO	YES	NO	.0	NO	NO	.000
316	01	921DVEE316	1.0	NO	.0	NO	NO	NO	.0	NO	YES	.000
316	01	911DVEE316	1.0	NO	.0	NO	NO	NO	.0	YES	NO	.000
316	02	921DVEE316	1.0	NO	.0	NO	NO	YES	.0	NO	NO	.000
316	02	911DVEE316	1.0	NO	.0	NO	YES	NO	.0	NO	NO	.000
318	01	903DVEE318	1.0	NO	.0	YES	NO	NO	.0	NO	NO	.000
318	01	912DVEE318	1.0	NO	.0	NO	YES	NO	.0	NO	NO	.000
318	01	921DVEE318	1.0	NO	.0	NO	NO	NO	.0	NO	YES	.000
318	01	911DVEE318	1.0	NO	.0	NO	NO	NO	.0	YES	NO	.000
318	02	921DVEE318	1.0	NO	.0	NO	NO	YES	.0	NO	NO	.000
318	02	911DVEE318	1.0	NO	.0	NO	YES	NO	.0	NO	NO	.000
371	01	903DVEE371	1.0	NO	.0	YES	NO	NO	.0	NO	NO	.000
371	01	912DVEE371	1.0	NO	.0	NO	YES	NO	.0	NO	NO	.000
371	01	921DVEE371	1.0	NO	.0	NO	NO	NO	.0	NO	YES	.000
371	01	911DVEE371	1.0	NO	.0	NO	NO	NO	.0	YES	NO	.000
371	02	921DVEE371	1.0	NO	.0	NO	NO	YES	.0	NO	NO	.000
371	02	911DVEE371	1.0	NO	.0	NO	YES	NO	.0	NO	NO	.000
531	01	903DVEE531	1.0	NO	.0	YES	NO	NO	.0	NO	NO	.000
531	01	912DVEE531	1.0	NO	.0	NO	YES	NO	.0	NO	NO	.000
531	01	921DVEE531	1.0	NO	.0	NO	NO	NO	.0	NO	YES	.000
531	01	911DVEE531	1.0	NO	.0	NO	NO	NO	.0	YES	NO	.000
531	02	921DVEE531	1.0	NO	.0	NO	NO	YES	.0	NO	NO	.000
531	02	911DVEE531	1.0	NO	.0	NO	YES	NO	.0	NO	NO	.000
541	01	903DVEE541	1.0	NO	.0	YES	NO	NO	.0	NO	NO	.000
541	01	912DVEE541	1.0	NO	.0	NO	YES	NO	.0	NO	NO	.000
541	01	921DVEE541	1.0	NO	.0	NO	NO	NO	.0	NO	YES	.000
541	01	911DVEE541	1.0	NO	.0	NO	NO	NO	.0	YES	NO	.000
541	02	921DVEE541	1.0	NO	.0	NO	NO	YES	.0	NO	NO	.000
541	02	911DVEE541	1.0	NO	.0	NO	YES	NO	.0	NO	NO	.000
651	01	903DVEE651	1.0	NO	.0	YES	NO	NO	.0	NO	NO	.000
651	01	912DVEE651	1.0	NO	.0	NO	YES	NO	.0	NO	NO	.000
651	01	921DVEE651	1.0	NO	.0	NO	NO	NO	.0	NO	YES	.000
651	01	911DVEE651	1.0	NO	.0	NO	NO	NO	.0	YES	NO	.000
651	02	921DVEE651	1.0	NO	.0	NO	NO	YES	.0	NO	NO	.000
651	02	911DVEE651	1.0	NO	.0	NO	YES	NO	.0	NO	NO	.000
762	01	903DVEE762	1.0	NO	.0	YES	NO	NO	.0	NO	NO	.000
762	01	912DVEE762	1.0	NO	.0	NO	YES	NO	.0	NO	NO	.000
762	01	921DVEE762	1.0	NO	.0	NO	NO	NO	.0	NO	YES	.000
762	01	911DVEE762	1.0	NO	.0	NO	NO	NO	.0	YES	NO	.000
762	02	921DVEE762	1.0	NO	.0	NO	NO	YES	.0	NO	NO	.000

RUN DATE: 4- 9-2008
 CRUISE #: 30684
 SALENAME: OGM DUHRING RERUN
 SALE #: 30684

REPORT UCS
 VER 10.05.2004
 VOLUME BY SPECIES WITHIN CUTTING UNIT ACROSS ALL STRATA *
 (FOR CUT TREES ONLY)

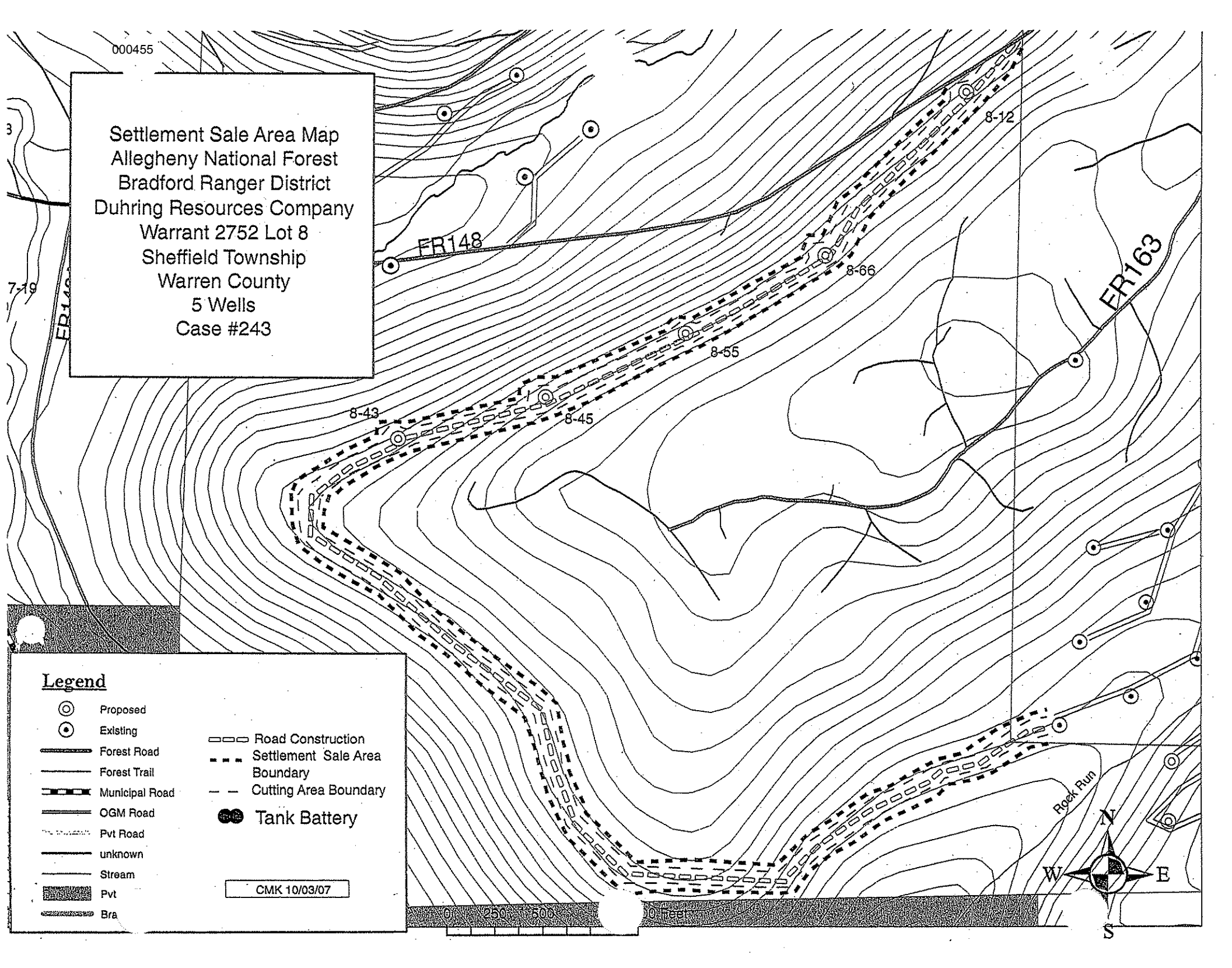
S P E C I E S	TOTAL	***** SAWTIMBER ***** (PROD = 01 UM = 01, 03)				***** NON-SAWTIMBER ***** (PROD NOT = .01 UM = 02, 03) (AND ALL SECONDARY PRODUCT VOLUMES)			
	EST.	EST.	** GROSS VOLUME **		** NET VOLUME **		GROSS	NET	
U N I T	# OF TREES	# OF TREES	BDFT	CUFT	BDFT	CUFT	CUFT	CUFT	CORDS
1 316	769	468	69388	11336	67886	11087	9188	9188	116.36
1 318	420	86	9843	1517	9609	1479	3578	3578	45.22
1 371	100	33	4293	650	4257	644	1418	1418	17.96
1 531	143	9	555	80	480	68	893	893	11.30
1 541	77	10	1549	244	1531	241	1650	1650	20.88
1 651	1	1	297	45	297	45	8	8	.10
1 762	448	415	121045	18264	118087	17825	6114	6114	77.41
UNIT 1 TOTAL	1957	1022	206970	32136	202146	31389	22849	22849	289.22

S U B T O T A L S		*****SAWTIMBER*****				*****NON-SAWTIMBER*****			
SPECIES	TOT EST # OF TREES	EST # OF TREES	** GROSS VOLUME **		** NET VOLUME **		GROSS	NET	CORDS
			BDFT	CUFT	BDFT	CUFT	CUFT	CUFT	
316	769	468	69388	11336	67886	11087	9188	9188	116.36
318	420	86	9843	1517	9609	1479	3578	3578	45.22
371	100	33	4293	650	4257	644	1418	1418	17.96
531	143	9	555	80	480	68	893	893	11.30
541	77	10	1549	244	1531	241	1650	1650	20.88
651	1	1	297	45	297	45	8	8	.10
762	448	415	121045	18264	118087	17825	6114	6114	77.41
OVERALL TOTALS ----	1957	1022	206970	32136	202146	31389	22849	22849	289.22

** FOR TREE-BASED SAMPLES, THE CUTTING UNIT VOLUME IS BASED ON THE # OF TREES TALLIED OR THE SUM OF KPIS THAT FALL WITHIN THE CUTTING UNIT. FOR AREA-BASED SAMPLES, THE CUTTING UNIT VOLUME IS BASED ON AN AVERAGE VOLUME PER ACRE AT THE STRATA LEVEL TIMES THE NUMBER OF ACRES IN THE CUTTING UNIT.

000455

Settlement Sale Area Map
 Allegheny National Forest
 Bradford Ranger District
 Duhring Resources Company
 Warrant 2752 Lot 8
 Sheffield Township
 Warren County
 5 Wells
 Case #243



Legend

- ⊙ Proposed
- ⊘ Existing
- Forest Road
- Forest Trail
- Municipal Road
- OGM Road
- Pvt Road
- unknown
- Stream
- ▨ Pvt
- Bra
- ▭ Road Construction
- Settlement Sale Area Boundary
- - - Cutting Area Boundary
- Tank Battery

CMK 10/03/07

