

USDA - FOREST SERVICE  
Stewardship: N

REPORT OF TIMBER SALE  
APPRAISAL SUMMARY CCF

R6-FS-2400-17 (04/10)  
Version 1531 (TEA 07-15)

Region: 06  
Forest: 06 Mt Hood  
District: 06 Hood River  
Salvage: N

Sale Name: Basalt SBA  
Sale Number: 61601  
Appraise to: Odell, OR  
Appraiser: E.Kidwell

Appraisal Date: 08/27/15  
Base Period End: 06/30/15  
Competition Factor: 40%  
Essential KV Cost: 0

SELLING PRICES	1	2	3	4	5	6	7	Average	Total
1. Species	D-fir	Gr Fir	GBCvNS						
2. Species Code	205	17	2						
3. Product/Unit	01-03	01-03	20-03						
4. Volume	10,489	3,293	1,253						15,035
5. Base Period Price	57.85	27.68	98.24*					54.61	
6. Base Period Index	177.76	157.85	78.00					165.09	
7. Current Index	177.76	157.85	78.00					165.09	
8. Rapid Market Adj	10.40	5.20						8.39	
9. Market Adj BP Price	68.25	32.88	98.24					63.00	
10. Unusual Adjustment	-18.38	-18.38						-16.85	
11. GBCv-Nonsaw Adj			-207.21					-17.27	
12. Product Quality Adj									
13. Adj Base Period Price	49.87	14.50	-108.97					28.89	434,295.52

COSTS	Zone Avg Cost/UM	Est Sale Cost/UM	Adj to BP Cost	ROADS	Km	Miles	Cost
14. Stump to Truck	149.51	119.50	30.01	Specified Road Con			
15. Haul/Scale	29.11	15.53	13.58	Specified Road Rec	20.74	12.86	328,930
16. Road Maintenance	16.43	2.90	13.53	Temporary Road Con	6.09	3.78	33,640
17. Contract	4.57	2.33	2.24	Haul Miles		17	
18. Development & Other	7.59	2.24	5.35				
19. Road Const & Recon		21.88	-21.88				
20. Total (lines 14-19)	207.21	164.38	42.83	DEPOSITS:	Br Disp/UM 2.29	Rd Mtc/UM .10	C(T)5.213# 18,790.00

ADVERTISED RATES	1	2	3	4	5	6	7	Average	Total
21. Predicted Bid Rate	92.70	57.33	-66.14					71.72	1,078,244.57
22. Competition Adjustment	37.08	22.93	-26.46					28.69	431,286.23
23. Property Value									
24. Indicated Adv Rate	55.62	34.40	-39.68					43.03	646,958.34
25. Base Rate	3.00	3.00	.25					2.77	41,659.25
26. Adjustment	-3.63	-3.63	39.93						3.63
27. Advertised Rate	51.99	30.77	.25					43.03	646,961.97

CCF to MBF Rate Factors:	1.9345	1.8710	1.9457					1.9212	
CCF to MBF Volume Factors:	.5169	.5345	.5140					.5205	
MBF to CCF Index Factors:	.52	.52	.52						
CCF Base Index for A(T)5a:	179.47C	159.36C							
CCF Wtd Avg Del Log Price:	175.75	235.17							
MBF Volume:	5,422	1,760	644						7,826
MBF Base Index for A(T)5a:	341.85	303.55							
MBF Advertised Rate:	100.57	57.57	.49						
								82.66	646,929.30
								DEPOSITS/MBF BD: 4.40	RM: .19

**PRODUCT QUALITY ADJUSTMENT - OREGON EASTSIDE**  
Use with Appraisal Update #7-15

Sale Name: **Basalt SBA**

Date: **21-Aug-15** (mm/dd/yy)

Species Group #1	Minimum Dia - dib		Log price \$/mbf avg**	Volume MBF	Volume CCF	Log price \$/ccf avg	Adjustment Dollars
122	5.0" - 7.99"		250.00				
	8.0" - 11.99"		340.00	5,422.00	10,489.00	175.75	0.00
	12.0" - 19.99"		360.00				
	20.0" - 24.0"		425.00				

\$/ton Avg	Avg lb per cf	Volume CCF
32.00	61.4	1,253.00

BPP for chips = **98.24** /ccf  
(insert as override on TEA input screen)

Weighted average Product Quality Adjustment (PQA) for species group #1 = **0.00** /ccf under BPP/CCF for products 08 and 20  
Weighted average delivered log price for Species Group #1 = **175.75** /ccf (enter on TEA input screen as Log Pr/CCF)

Species Group #2	Minimum Dia - dib		Log price \$/mbf avg**	Volume MBF	Volume CCF	Log price \$/ccf avg	Adjustment Dollars
D-fir/Larch	8-11"		camprun				
	#3 sawmill		440.00	1,760.00	3,293.00	235.17	0.00
	#2 sawmill		0.00				

Weighted average Product Quality Adjustment (PQA) for species group #2 = **0.00** /ccf  
Weighted average delivered log price for Species Group #2 = **235.17** /ccf (enter on TEA input screen as Log Pr/CCF)

Species Group #3	Minimum Dia - dib		Log price \$/mbf avg**	Volume MBF	Volume CCF	Log price \$/ccf avg	Adjustment Dollars
Hem-Fir	8-11"		camprun				
	#3 sawmill		380.00			197.60	0.00
	#2 sawmill		0.00				

Weighted average Product Quality Adjustment (PQA) for species group #3 = **0.00** /ccf  
Weighted average delivered log price for Species Group #3 = **0.00** /ccf (enter on TEA input screen as Log Pr/CCF)

Species Group #4	Minimum Dia - dib		Log price \$/mbf avg	Volume MBF	Volume CCF	Log price \$/ccf avg	Adjustment Dollars
		If this table is used, →				0.00	
		entry needed here					

Weighted average Product Quality Adjustment (PQA) for species group #4 = **0.00** /ccf  
Weighted average delivered log price for Species Group #4 = **0.00** /ccf (enter on TEA input screen as Log Pr/CCF)

Species Group #5	Minimum Dia - dib		Log price \$/mbf avg	Volume MBF	Volume CCF	Log price \$/ccf avg	Adjustment Dollars
		If this table is used, →				0.00	
		entry needed here					

Weighted average Product Quality Adjustment (PQA) for species group #5 = **0.00** /ccf  
Weighted average delivered log price for Species Group #5 = **0.00** /ccf (enter on TEA input screen as Log Pr/CCF)

Species Group #6	Minimum Dia - dib		Log price \$/mbf avg	Volume MBF	Volume CCF	Log price \$/ccf avg	Adjustment Dollars
		If this table is used, →				0.00	
		entry needed here					

Weighted average Product Quality Adjustment (PQA) for species group #6 = **0.00** /ccf  
Weighted average delivered log price for Species Group #6 = **0.00** /ccf (enter on TEA input screen as Log Pr/CCF)

\*\* Oregon Log Market Report, July 15, 2015, delivered log prices.



# VOLUME SUMMARY SHEET

Version 4.1-100

The net volumes

Cutting Unit #	Paymt Unit #	Ground-base Acres	Skyline Acres	Species or Species Groups														Total Saw Volume	Total Nonsaw Volume	Total Unit Volume	Volume Per Acre
				E. Doug-fir		grand fir		W. hemlock		lodgepole pine		ponderosa pine		P. silver fir		noble fir					
				saw	n-saw	saw	n-saw	saw	n-saw	saw	n-saw	saw	n-saw	saw	n-saw	saw	n-saw				
1	1	34	13	1,281	94	312	37	93	21	4				8	2		1	1,698	155	1,853	39.4
2	2	0	20	545	40	133	16	39	9	2				4	1			723	66	789	39.5
3	3	0	11	300	22	73	9	22	5	1				2				398	36	434	39.5
4	4	0	25	686	56	125	12	16	6	30	5	26	1					883	80	963	38.5
28	28	15	0	409	30	100	12	30	7	1				3	1			543	50	593	39.5
29	29	26	0	713	58	130	12	16	7	31	5	27	1					917	83	1,000	38.5
30	30	26	0	709	52	172	20	51	11	2				5	1		1	939	85	1,024	39.4
31	31	6	9	409	30	99	12	30	7	1				3	1			542	50	592	39.5
34	34	30	32	1,690	124	411	48	122	27	5				11	2		1	2,239	202	2,441	39.4
35	35	14	0	382	28	93	11	28	6	1				3	1			507	46	553	39.5
44	44	0	11	302	25	55	5	7	3	13	2	12	1					389	36	425	38.6
45	45	7	3	273	20	66	8	20	4	1				2				362	32	394	39.4
46	46	16	0	436	32	106	12	32	7	1				3	1			578	52	630	39.4
47	47	6	27	900	66	219	26	65	15	3				6	1		1	1,193	109	1,302	39.5
48	48	20	33	1,454	119	264	25	33	13	64	11	56	3					1,871	171	2,042	38.5
<b>Sale Totals</b>		<b>200</b>	<b>184</b>	<b>10,489</b>	<b>796</b>	<b>2,358</b>	<b>265</b>	<b>604</b>	<b>148</b>	<b>160</b>	<b>23</b>	<b>121</b>	<b>6</b>	<b>50</b>	<b>11</b>		<b>4</b>	<b>13,782</b>	<b>1,253</b>	<b>15,035</b>	

# Logging Cost Summary - Estimated Stump To Truck Cost Results

## Summary By Logging System and Sale

Logging System	Vol Type	Total Volume	Stump-truck \$/vol	Estimated Seasons
Skyline	ccf	7,193	136.73	2
Mechanized <i>Mech biomass</i>	ccf-saw	7,842	103.69	2
Tractor				
Shovel				
Helicopter				
<b>Sale-as-a-whole</b>		15,035	119.50	← sawtimber basis

ovhd=6.18/ccf or 11.89/mbf, p&r=2% of costs included (except helicopter)

Bio stump-truck \$		Estimated total number <i>operating</i> days for sale	334
Include bio stump-truck in mech sys? →	<input type="checkbox"/>	Variable shutdown cost (all systems, if any) \$/vol	
		Include variable shutdown in system costs?	<input type="checkbox"/>
Biomass haul cost	<input type="text"/>		



**Include Chipper?**

Hours Used

Haul-\$'s

Select helicopter alternative

Sale: **Basalt SBA**  
Date: **8/18/15**

LogCost ver **15.0**  
**2/4/2015**

Report summary  
table above in tons?



# TRUCKING APPRAISAL - APPRAISAL SUMMARY

HaulCost ver 15.0

Sale name: **Basalt SBA**

Geo. area: **OR**

Date: **19-Aug-15**

Cost type	Average trip rtm's	CCF per load	Tot rtm's per day	Total OT rtm's	CCF vol per day	Gross cost per day	Net cost per day	Net cost per ccf	Net \$/ccf w/inflation
<b>w/o scale</b>	148.0	8.0	582.0	102.0	31.46	\$451.33	\$451.33	\$14.35	15.53
<b>with scale</b>									

years inflation = 4.0

Include scale cost in final haul cost

*no scaling selected on DATA INPUT screen*

Total haul cost, \$/ccf = **\$15.53**

*Sale or Haul Narrative*

Haul to Odell inflation rate 2%, 4 years, contract term 12/31/20

83 minutes

Volume Type...

**CCF**

## Other Road Maintenance Items and Summary



Sale name: **Basalt SBA Timber Sale**

### Pre-Haul Maintenance

*(Open roads, blading, brushing, small slide removal, etc.)*

Type	Mtce By	Total Cost
T-811 - 1612 mp 5.2-5.5 (0.30mi @ \$1000/mi)	Purchaser	\$300.00
T-813 Compaction B - 1612 mp 5.2-5.5 (45cy @ \$36/cy)	Purchaser	\$1,620.00
T-831 - 1610630,1612630,1612650 (1.60mi @ \$550/mi)	Purchaser	\$880.00
T-832 - 1610630,1612630,1612650 (110cy @ \$15/cy)	Purchaser	\$1,650.00
T-834 - 1610630,1612,1612630,1612650 (1.90mi @ \$420/mi)	Purchaser	\$798.00
T-838 - 1612 mp 5.2-5.5 (0.30mi @ \$350/mi)	Purchaser	\$105.00
T-839 - 1610012,1610630,1610640,1611,1612630,... 1612650 (4.90mi @ \$1450/mi)	Purchaser	\$7,105.00
T-842 - 1612 mp 5.2-5.5 (0.30mi @ \$690/mi)	Purchaser	\$207.00

### Post-Haul Maintenance

*(Road closures, seeding, barriers, etc.)*

Type	Mtce By	Total Cost
T-811 - 1610,1612 (11.34mi @ \$1000/mi)	Purchaser	\$11,340.00
T-834 - 1610,1611,1612,1610630,1612630,1612650 (13.70mi @ \$420/mi)	Purchaser	\$5,754.00
T-835 - 1610012,1610640 (1.05mi @ \$900/mi)	Purchaser	\$945.00
T-836 - 1610 (4.05mi @ \$400/mi)	Purchaser	\$1,620.00
T-838 - 1612,1610 (7.29mi @ \$250/mi)	Purchaser	\$1,822.50
T-839 - 1610012,1610630,1610640,1611,1612630,... 1612650 (4.90mi @ \$500/mi)	Purchaser	\$2,450.00

### Miscellaneous Road Maintenance Items

*(Damage to roads from logging or landings, dust abatement, etc.)*

Type	Mtce By	Total Cost
Hazard Trees (T-854) - All Roads (Lump Sum)	Purchaser	\$2,100.00
Mobilization - 9% of Purch Performed Maint	Purchaser	\$3,482.69

### Data and Cost Summary

*(Traveling RTM's, haul maintenance, and fixed costs included from Road Report)*

Approval	
Prepared By <i>Lucas Jimenez</i>	8/20/2015 Project Engineer
Reviewed By	Road Systems Manager
Reviewed By	Zone Engineer

Data & Cost Summary Item	Value	
Appraisal point (mill or sort yard)	Odell	
District or Forest	Hood River RD	
Sale termination date	12/31/2020	
Analyst name	L. Jimenez	
Total hauled timber volume - CCF	15,035	
Maintenance Summary (all items)	Total \$'s	\$/CCF
Required rd maint deposits, FS (CT5.32)	\$1,478.77	\$0.10
Purchaser maintenance	\$42,179.19	\$2.81
Other maintenance (CT5.32)	\$0.00	\$0.00
Subtotal FS & other (CT5.32)	\$1,478.77	\$0.10
Total for appraisal - Road Maintenance (all)	\$43,657.95	\$2.90

<b>BRUSH DISPOSAL TREATMENT PLAN</b> (Ref. FSH 2409.19)	<b>1. Forest</b> Mt. Hood		<b>2. District/Unit</b> Hood River			
	<b>3. Sale Name</b> BASALT(61601)		<b>4. Award Date</b>			
<b>5. Compartments or GIS Reference</b>	<b>6. Type of Plan</b> [X] Original [ ] Final [ ] Revision #	<b>7. Purchaser</b>		<b>8. Contract Number</b>		
<b>9. List of Projects</b>		<b>10. Work Activity</b>	<b>11. Unit of Work</b>	<b>12. Cost Per Unit</b>	<b>13. No. of Units</b>	<b>14. Cost</b>
Fuel Inventory		HF	Acres	\$22.73	256.0	\$5,819
Burning of Piled Material		HF	Acres	\$75.23	138.0	\$10,381
Burning of Piled Material		HF	Acres	\$69.57	118.0	\$8,209
<b>15. Total Project Cost</b>					<b>\$24,409</b>	
<b>16. National Program Support</b>					<b>\$10,008</b>	
<b>17. Total Cost of Funded Work (Sum of line 15 and 16) (Required Bid Deposit Amount)</b>					<b>\$34,417</b>	
<b>18. Remarks:</b> Combined Total Cost of BD Funded Work: \$34,417 Forest Collection Rate : 8.13% National Collection Rate for Program Support: 41% Inflation Rate: 2% Rate Remarks: Mt. Hood Trust Fund Collection Rate Spreadsheet - revised 10/25/10 PPPP does not include the Forest Collection Rate or National Collection Rate for Program Support.						
<b>19. Signature(Prepared by)</b>		<b>Title</b>		<b>Date</b>		
<b>20. Signature(Recommended by)</b>		<b>Title</b>		<b>Date</b>		
<b>21. Signature (Approved by)</b>		<b>Title</b>		<b>Date</b>		



File Code: 5150 – Fuels Management  
2400 – Timber Management

Date: August 8, 2015

Subject: Narrative for Basalt Timber Sale

To: Janeen Tervo

The Basalt timber sale is located on the Hood River Ranger District at T1S, R9 E, Sections 1, 10,11,14,15,16,21,22,and 23. This is the second entry into this area, commercial thinning will be implemented to achieve the desired outcome. Six of the units will be skyline logged. And eight units will be logged by ground based means. Timber type is a Westside timber type consisting of Douglas fir, Hemlock and True Fir species which have wetter soil conditions and receive significant amounts of moisture. Created fuels from logging activities will be piled at the landing sites or in the units. The most cost effective form of slash disposal currently is to burn the piles in place during favorable weather conditions (fuel moisture and wind), that inhibit fire spread outside the pile, and reduce impacts of smoke on various view sheds, designated areas, etc. The entire sale does not need to be released for individual units to be treated. Once units are released either Brown’s transects or permanent photo points would be utilized to determine if down woody material left on the units meets the desired outcome. Specific unit information is located in the unit summary portion of this write up.

**Summary of Hazard Fuel Treatment Units**

Post harvest fuel loadings are estimated to be 26 + tons per acre. An acceptable level of post-harvest fuel loading would be less than 26.7 tons in the less than 3” – 9” size classes. Following harvest, a Post Treatment Exam of Fuels (1100) will be completed by force account crews that will assess (monitor) and document the effects of not treating fuels. Fuels piled at landing sites will be treated with fire (1130), by force account crews. The purchaser is responsible for piling of landings.

<i>BD Unit #</i>	<i>ACRES</i>	<i>Harvest Type</i>	<i>Facts Fuel Treatment Codes</i>
4	25	Skyline	1100&1130
28	15	Ground Based	1100&1130
29	26	Ground Based	1100&1130
30	26	Ground Based	1100&1130
31	5	Ground Based	1100&1130
31	10	Skyline	1100&1130
34	32	Skyline	1100&1130
35	14	Ground Based	1100&1130
44	11	Skyline	1100&1130
45	23	Ground Based	1100&1130
46	16	Ground Based	1100&1130
47	6	Ground Based	1100&1130
47	27	Skyline	1100&1130
48	33	Skyline	1100&1130



**FACTS Fuel Treatment Codes:**

- 1130 – Burning of Piled Material
- 1100 – Post Treatment Exam Fuels Mgt

**Costs & Cost Development**

Purchaser costs are based on the timber sale sell date and Brush Disposal costs are based on and inflated to the sale termination date of 10/31/2019.

Direct Costs – Treatment costs were developed using cost calculation spreadsheets. These spreadsheets are filed in the BD project file. Projects included in the Brush Disposal Treatment Plan include:

- 1130: \$60.63 per acre Ground Based Units
- 1130; \$65.63 per acre Skyline Units
- 1100: \$19.81 per acre

Indirect Costs applied to the BD Treatment Plan (2430/6550/5100 Trust Fund Analysis Letter, September 14, 2009):

- Forest Collection Rate: 8.13%
- National Collection Rate for Program Support: 41%
- Inflation Rate: 2%
- Combined Total Cost of BD Funded Work: \$34,417.00

*/s/ Leo Segovia*

LEO SEGOVIA

Assistant District Fire Management Officer  
Hood River Ranger District

cc:

Sam Grimm, Zone Timber/Vegetation Manager  
Kim Valentine, Zone FMO  
Dirk Shupe, Asst FFMO

TEMPORARY ROAD COST WORKSHEET

Sale Name : Basalt SBA

Total miles 3.78 Kilometers: 6.04  
 Sale vol. (CCF) 15,035 Total cost all roads \$ 33,640.47 Cost per CCF \$ 2.24

Road #1		ROAD ACCESSES UNIT(S): 1610 U1 Temp a	
LENGTH OF TEMPORARY ROAD CONSTRUCTION: 1512 (Feet)			
EXCAVATION	\$ 2,000.00	Per Mile x 0.29 Miles =	\$ 580.00
CLEARING	\$ 1,800.00	Per Mile x 0.29 Miles =	\$ 522.00
SPOT ROCK	\$ 40.00	Per Yard x 0 Yards =	\$ -
HAUL		Per CuYd x Haul Miles x \$ per Mile =	\$ -
PLACE AND PROCESS		Per Mile x Miles =	\$ -
PILING		Per Mile x Miles =	\$ -
OTHER	Mobilization		\$ 100.00
SUBTOTAL			\$ 1,202.00
OH & DEP	0.30 (Factor) x \$ 1,202.00	Subtotal =	\$ 360.60
TEMP ROAD CLOSURES	1 X \$ 300	each =	\$ 300.00
OTHER			\$ -
REHABILITATION (Scarification)	\$123.00 Per Hour x 300	Feet per Hour=	\$619.92
Overhead and depreciation are included in the costs per mile. TOTAL COST :			\$ 2,482.52

TEMPORARY ROAD COST WORKSHEET

Sale Name : Basalt SBA

Total miles 3.78 Kilometers: 6.04  
 Sale vol. (CCF) 15,035 Total cost all roads \$ 33,640.47 Cost per CCF \$ 2.24

Road #2		ROAD ACCESSES UNIT(S): 1610 U1 Temp b	
LENGTH OF TEMPORARY ROAD CONSTRUCTION: 1900 (Feet)			
EXCAVATION	\$ 2,000.00	Per Mile x 0.36 Miles =	\$ 720.00
CLEARING	\$ 1,800.00	Per Mile x 0.36 Miles =	\$ 648.00
SPOT ROCK	\$ 40.00	Per Yard x 0 Yards =	\$ -
HAUL		Per CuYd x Haul Miles x \$ per Mile =	\$ -
PLACE AND PROCESS		Per Mile x Miles =	\$ -
PILING		Per Mile x Miles =	\$ -
OTHER	Mobilization shared with Road #1		
SUBTOTAL			\$ 1,368.00
OH & DEP	0.30 (Factor) x \$ 1,368.00	Subtotal =	\$ 410.40
TEMP ROAD CLOSURES	1 X \$ 300	each =	\$ 300.00
OTHER			\$ -
REHABILITATION (Scarification)	\$123.00 Per Hour x 300	Feet per Hour=	\$779.00
Overhead and depreciation are included in the costs per mile. TOTAL COST :			\$ 2,857.40

TEMPORARY ROAD COST WORKSHEET

Sale Name : Basalt SBA

Total miles 3.78 Kilometers: 6.04  
 Sale vol. (CCF) 15,035 Total cost all roads \$ 33,640.47 Cost per CCF \$ 2.24

Road #3		ROAD ACCESSES UNIT(S): 1611 U4 temp a	
LENGTH OF TEMPORARY ROAD CONSTRUCTION: 2804 (Feet)			
EXCAVATION	\$ 2,000.00	Per Mile x 0.53 Miles =	\$ 1,060.00
CLEARING	\$ 1,800.00	Per Mile x 0.53 Miles =	\$ 954.00
SPOT ROCK	\$ 40.00	Per Yard x 0 Yards =	\$ -
HAUL		Per CuYd x Haul Miles x \$ per Mile =	\$ -
PLACE AND PROCESS		Per Mile x Miles =	\$ -
PILING		Per Mile x Miles =	\$ -
OTHER	Mobilization		\$ 100.00
SUBTOTAL			\$ 2,114.00
OH & DEP	0.30 (Factor) x \$ 2,114.00	Subtotal =	\$ 634.20
TEMP ROAD CLOSURES	1 X \$ 300	each =	\$ 300.00
OTHER			\$ -
REHABILITATION (Scarification)	\$123.00 Per Hour x 300	Feet per Hour=	\$1,149.64
Overhead and depreciation are included in the costs per mile. TOTAL COST :			\$ 4,197.84

TEMPORARY ROAD COST WORKSHEET

Sale Name : Basalt SBA

Total miles 3.78 Kilometers: 6.04  
 Sale vol. (CCF) 15,035 Total cost all roads \$ 33,640.47 Cost per CCF \$ 2.24

Road #4		ROAD ACCESSES UNIT(S): 1611 U4 temp b	
LENGTH OF TEMPORARY ROAD CONSTRUCTION: 2315 (Feet)			
EXCAVATION	\$ 2,000.00	Per Mile x 0.44 Miles =	\$ 880.00
CLEARING	\$ 1,800.00	Per Mile x 0.44 Miles =	\$ 792.00
SPOT ROCK	\$ 40.00	Per Yard x 0 Yards =	\$ -
HAUL		Per CuYd x Haul Miles x \$ per Mile =	\$ -
PLACE AND PROCESS		Per Mile x Miles =	\$ -
PILING		Per Mile x Miles =	\$ -
OTHER	Mobilization shared with Road #5		
SUBTOTAL			\$ 1,672.00
OH & DEP	0.30 (Factor) x \$ 1,672.00	Subtotal =	\$ 501.60
TEMP ROAD CLOSURES	1 X \$ 300	each =	\$ 300.00
OTHER			\$ -
REHABILITATION (Scarification)	\$123.00 Per Hour x 300	Feet per Hour=	\$949.15
Overhead and depreciation are included in the costs per mile. TOTAL COST :			\$ 3,422.75

TEMPORARY ROAD COST WORKSHEET

Sale Name : Basalt SBA

Total miles 3.78 Kilometers: 6.04  
 Sale vol. (CCF) 15,035 Total cost all roads \$ 33,640.47 Cost per CCF \$ 2.24

Road #5		ROAD ACCESSES UNIT(S): 1612 U28	
LENGTH OF TEMPORARY ROAD CONSTRUCTION: 158 (Feet)			
EXCAVATION	\$ 2,000.00	Per Mile x 0.03 Miles =	\$ 60.00
CLEARING	\$ 1,800.00	Per Mile x 0.03 Miles =	\$ 54.00
SPOT ROCK	\$ 40.00	Per Yard x 0 Yards =	\$ -
HAUL		Per CuYd x Haul Miles x \$ per Mile =	\$ -
PLACE AND PROCESS		Per Mile x Miles =	\$ -
PILING		Per Mile x Miles =	\$ -
OTHER	Mobilization		\$ 100.00
SUBTOTAL			\$ 214.00
OH & DEP	0.30 (Factor) x \$ 214.00	Subtotal =	\$ 64.20
TEMP ROAD CLOSURES	1 X \$ 300	each =	\$ 300.00
OTHER			\$ -
REHABILITATION (Scarification)	\$123.00 Per Hour x 300 Feet per Hour=		\$64.78
Overhead and depreciation are included in the costs per mile.			<b>TOTAL COST : \$ 642.98</b>

TEMPORARY ROAD COST WORKSHEET

Sale Name : Basalt SBA

Total miles 3.78 Kilometers: 6.04  
 Sale vol. (CCF) 15,035 Total cost all roads \$ 33,640.47 Cost per CCF \$ 2.24

Road #6		ROAD ACCESSES UNIT(S): 1612 U29	
LENGTH OF TEMPORARY ROAD CONSTRUCTION: 888 (Feet)			
EXCAVATION	\$ 2,000.00	Per Mile x 0.17 Miles =	\$ 340.00
CLEARING	\$ 1,800.00	Per Mile x 0.17 Miles =	\$ 306.00
SPOT ROCK	\$ 40.00	Per Yard x 0 Yards =	\$ -
HAUL		Per CuYd x Haul Miles x \$ per Mile =	\$ -
PLACE AND PROCESS		Per Mile x Miles =	\$ -
PILING		Per Mile x Miles =	\$ -
OTHER	Mobilization		\$ 100.00
SUBTOTAL			\$ 746.00
OH & DEP	0.30 (Factor) x \$ 746.00	Subtotal =	\$ 223.80
TEMP ROAD CLOSURES	1 X \$ 300	each =	\$ 300.00
OTHER			\$ -
REHABILITATION (Scarification)	\$123.00 Per Hour x 300 Feet per Hour=		\$364.08
Overhead and depreciation are included in the costs per mile.			<b>TOTAL COST : \$ 1,633.88</b>

TEMPORARY ROAD COST WORKSHEET

Sale Name : Basalt SBA

Total miles 3.78 Kilometers: 6.04  
 Sale vol. (CCF) 15,035 Total cost all roads \$ 33,640.47 Cost per CCF \$ 2.24

Road #7		ROAD ACCESSES UNIT(S): was 1612636 U30	
LENGTH OF TEMPORARY ROAD CONSTRUCTION: 570 (Feet)			
EXCAVATION	\$ 3,400.00	Per Mile x 0.11 Miles =	\$ 374.00
CLEARING	\$ 1,200.00	Per Mile x 0.11 Miles =	\$ 132.00
SPOT ROCK	\$ 40.00	Per Yard x 0 Yards =	\$ -
HAUL		Per CuYd x Haul Miles x \$ per Mile =	\$ -
PLACE AND PROCESS		Per Mile x Miles =	\$ -
PILING		Per Mile x Miles =	\$ -
OTHER	Mobilization		\$ 100.00
SUBTOTAL			\$ 606.00
OH & DEP	0.30 (Factor) x \$ 606.00	Subtotal =	\$ 181.80
TEMP ROAD CLOSURES	1 X \$ 300	each =	\$ 300.00
OTHER			\$ -
REHABILITATION (Scarification)	\$123.00 Per Hour x 300 Feet per Hour=		\$233.70
Overhead and depreciation are included in the costs per mile.			<b>TOTAL COST : \$ 1,321.50</b>

TEMPORARY ROAD COST WORKSHEET

Sale Name : Basalt SBA

Total miles 3.78 Kilometers: 6.04  
 Sale vol. (CCF) 15,035 Total cost all roads \$ 33,640.47 Cost per CCF \$ 2.24

Road #8		ROAD ACCESSES UNIT(S): was 1612634 U30	
LENGTH OF TEMPORARY ROAD CONSTRUCTION: (Feet)			
EXCAVATION	\$ 3,400.00	Per Mile x 0.00 Miles =	\$ -
CLEARING	\$ 1,200.00	Per Mile x 0.00 Miles =	\$ -
SPOT ROCK	\$ 40.00	Per Yard x 0 Yards =	\$ -
HAUL		Per CuYd x Haul Miles x \$ per Mile =	\$ -
PLACE AND PROCESS		Per Mile x Miles =	\$ -
PILING		Per Mile x Miles =	\$ -
OTHER	Mobilization shared with Rd # 9		
SUBTOTAL			\$ -
OH & DEP	0.30 (Factor) x \$ -	Subtotal =	\$ -
TEMP ROAD CLOSURES	1 X \$ 300	each =	\$ 300.00
OTHER			\$ -
REHABILITATION (Scarification)	\$123.00 Per Hour x 300 Feet per Hour=		\$0.00
Overhead and depreciation are included in the costs per mile.			<b>TOTAL COST : \$ 300.00</b>

TEMPORARY ROAD COST WORKSHEET

Sale Name : **Basalt SBA**

Total miles 3.78 Kilometers: 6.04  
 Sale vol. (CCF) **15,035** Total cost all roads \$ **33,640.47** Cost per CCF \$ **2.24**

<b>Road #9</b>	ROAD ACCESSES UNIT(S):		<b>1610640 U 31 temp a</b>
LENGTH OF TEMPORARY ROAD CONSTRUCTION: <b>1322</b> (Feet)			
EXCAVATION	\$ <b>2,000.00</b>	Per Mile x <b>0.25</b> Miles =	\$ <b>500.00</b>
CLEARING	\$ <b>1,800.00</b>	Per Mile x <b>0.25</b> Miles =	\$ <b>450.00</b>
SPOT ROCK	\$ <b>40.00</b>	Per Yard x <b>0</b> Yards =	\$ <b>-</b>
HAUL		Per CuYd x _____ Haul Miles x _____ \$ per Mile =	\$ <b>-</b>
PLACE AND PROCESS		Per Mile x _____ Miles =	\$ <b>-</b>
PILING		Per Mile x _____ Miles =	\$ <b>-</b>
OTHER	Mobilization		\$ <b>100.00</b>
SUBTOTAL			\$ <b>1,050.00</b>
OH & DEP	<b>0.30</b> (Factor) x	\$ <b>1,050.00</b> Subtotal =	\$ <b>315.00</b>
TEMP ROAD CLOSURES	<b>1</b> X	\$ <b>300</b> each =	\$ <b>300.00</b>
OTHER			\$ <b>-</b>
REHABILITATION (Scarification)	\$ <b>123.00</b> Per Hour x	<b>300</b> Feet per Hour=	\$ <b>542.02</b>
<b>Overhead and depreciation are included in the costs per mile.</b>			<b>TOTAL COST : \$ <b>2,207.02</b></b>