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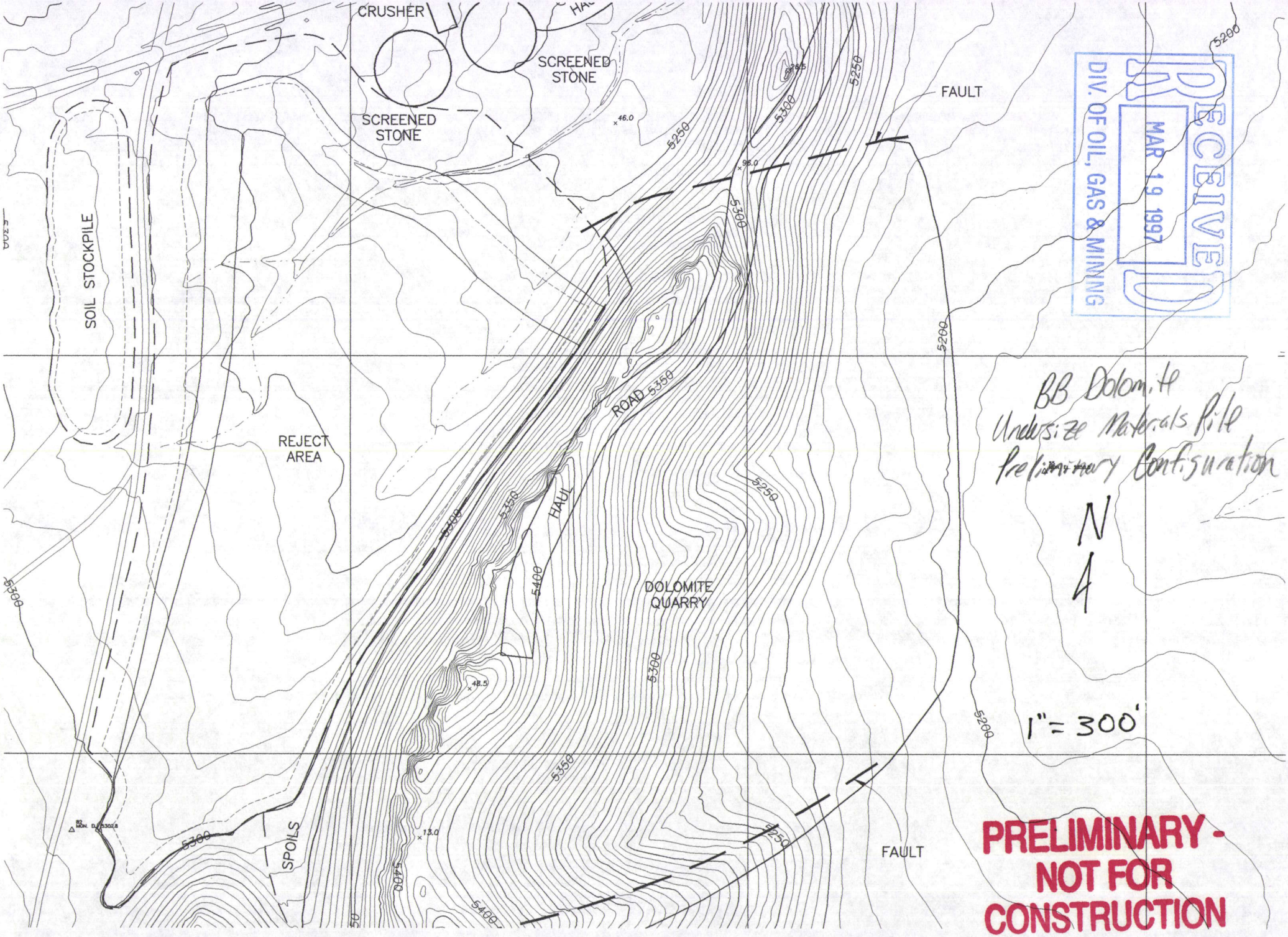
ATTACHMENT B

RECLAMATION ESTIMATE



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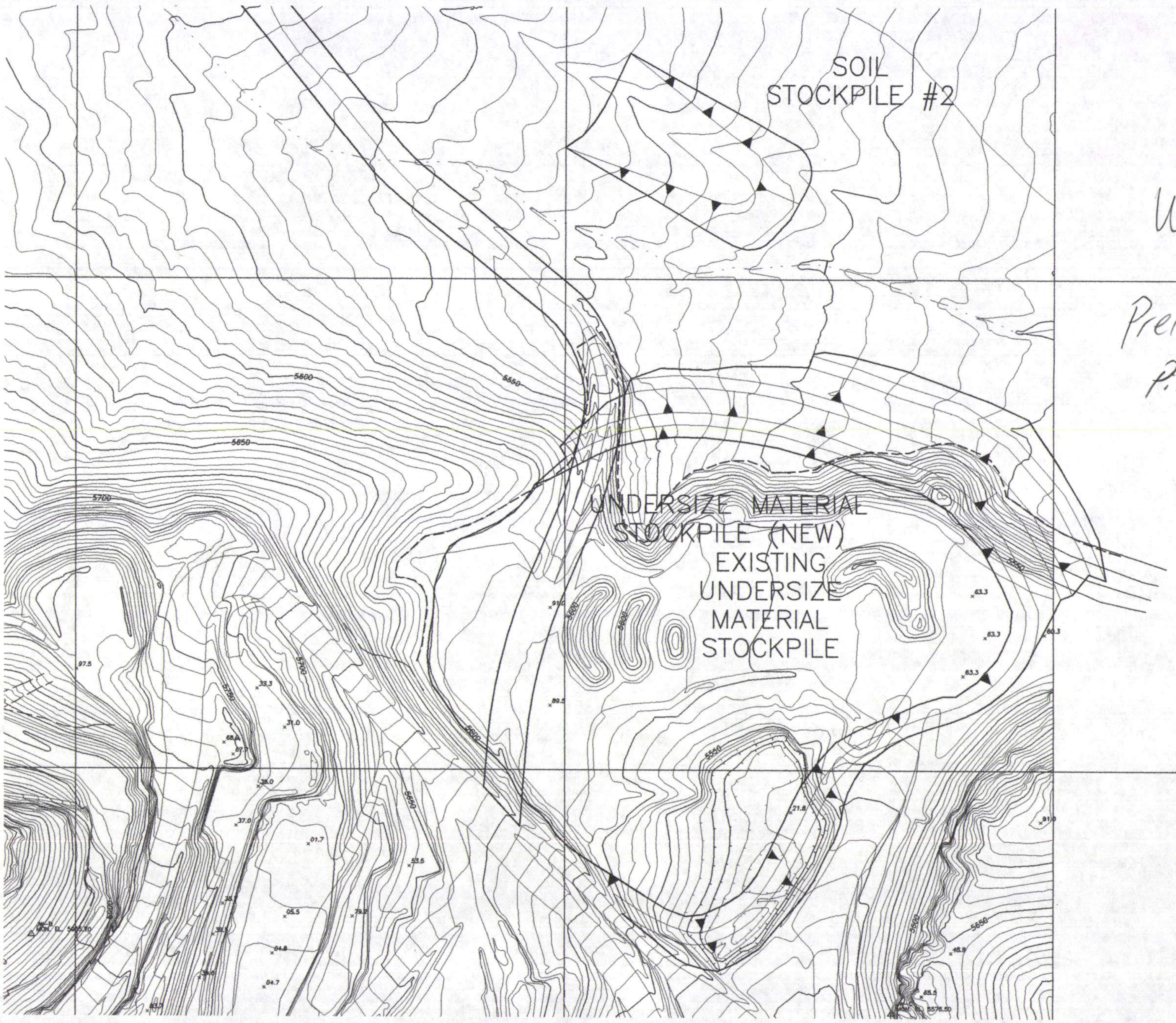
PRELIMINARY - NOT FOR CONSTRUCTION

1" = 300'

N



PRELIMINARY - NOT FOR CONSTRUCTION

West Quarry Area

Preliminary Undersize Materi
Pile Configuration

N

1" = 300'

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CRICKET MOUNTAIN PROJECT
Reclamation Cost Summary

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DIRECT BOND COSTS

RECLAMATION TASK	COST	
TOTAL EARTHWORK	$126,257	
TOTAL TOPSOIL REAPPLICATION	$275,083	
TOTAL REVEGETATION	$87,643	
STRUCTURE REMOVAL	$96,983	
POND LINER DISPOSAL		
CLAY CAPPING HEAP		
POSTCLOSURE MONITORING	$62,250	
HEAP STABILIZATION METHOD		(1=RINSE,2=SULF/AIR,3=CHLOR,4=HPx.)
HEAP STABILIZATION		(M1-RINSE,AC1-SULF,AS1-Cl,BI1-HPx)
SUBTOTAL DIRECT COSTS	**$648,215**	

BOND REDUCTION FOR WORK COMPLETED

RECLAMATION TASK	COST
DUMP EARTHWORK	
HEAP EARTHWORK	
ROAD EARTHWORK	
FACILITIES EARTHWORK	
DUMP RESEEDING	
HEAP RESEEDING	
ROAD RESEEDING	
FACILITIES RESEEDING	
STRUCTURE REMOVAL	
SEDIMENT/LINER REMOVAL	
HEAP STABILIZATION	
SUBTOTAL WORK COMPLETE	

TOTAL DIRECT COSTS **$648,215**

INDIRECT RECLAMATION COSTS (AS FUNCTION OF DIRECT COSTS)

RECLAMATION TASK	COST	% OF DIRECT COSTS
MOBILIZATION	$32,411	*5.0%*
SUBTOTAL PROJECT COSTS	**$680,626**	

INDIRECT RECLAMATION COSTS (AS FUNCTION OF PROJECT COSTS)

RECLAMATION TASK	COST	% OF PROJECT COSTS	
INSURANCE	$2,723	*1.5%*	(of Labor Costs)
RECLAMATION MGMT FEE	$136,125	*20.0%*	
BOND (PERFORMANCE AND PAYME	$20,419	*3.0%*	
CONTINGENCY	$68,063	*10.0%*	
TOTAL INDIRECT COST	**$259,740**		

GRAND TOTAL BOND AMOUNT **$907,955** **APPROXIMATE COST/ACRE: $2,729**

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CRICKET MOUNTAIN PROJECT
Reclamation Cost Summary

EARTHWORK AND REVEGETATION SUMMARY

Facility Type	Reclaimed Acreage	Earthwork	Topsoil Reapplication	Seed/Amend Costs	Seed/Amend Application	Total
Waste Rock Dumps	136.1	$59,742	$95,481	$23,893	$8,315	$187,431
Heap Leach Pads						
Tailings Impoundments						
Open Pit Area	148.2	$48,413	$144,287	$30,357	$9,693	$232,750
Ponds and Process Impoundments						
Roads	18.6	$8,352	$15,437	$4,481	$1,431	$29,700
Office/Maintenance/Misc.	29.8	$9,751	$19,878	$7,180	$2,293	$39,101
	332.7	$126,257	$275,083	$65,911	$21,732	$488,982

CRICKET MOUNTAIN PROJECT

EQUIPMENT - DATA RANGE

	FACILITIES	HEAPS	ROADS	PONDS	DUMPS	PITS	
MOTOR GRADER							
MAKE/MODEL	CAT/16G	CAT/16G	CAT/16G	CAT/16G	CAT/16G	CAT/16G	
BLADE WIDTH	16	16	16	16	16	16	ft
COST	$107.50	$107.50	$107.50	$107.50	$107.50	$107.50	per hr
AVERAGE SPEED	0	0	0	0	0	0	mph
MANEUVER TIME	0.25	0.25	0.25	0.25	0.25	0.25	min/cycle
EFFICIENCY	80	80	80	80	80	80	%
AVERAGE PASS DIST	500	500	500	500	500	500	ft
CORRECTION FACTORS	0.5	0.5	0.5	0.5	0.5	0.5	
DATA SOURCE	CAT 1997 - wk	CAT 1997 - wk	CAT 1997 - wk	CAT 1997 - wk	CAT 1997 - wk	CAT 1997 - wk	
DOZER							
MAKE/MODEL	CAT/D9N	CAT/D9N	CAT/D9N	CAT/D9N	CAT/D9N	CAT/D9N	
HORSEPOWER	370	370	370	370	370	370	hp
BLADE WIDTH	15.3	15.3	15.3	15.3	15.3	15.3	ft
RIPPER WIDTH	8.8	8.8	8.8	8.8	8.8	8.8	ft
COST	$125.00	$125.00	$125.00	$125.00	$125.00	$125.00	per hr
AVERAGE SPEED	1	1	1	1	1	1	mph
MANEUVER TIME	0.25	0.25	0.50	0.25	0.25	0.25	min/cycle
EFFICIENCY	80	80	80	80	80	80	%
AVG PASS DIST -DOZING	300	100	300	100	200	100	ft
CORRECTION FACTORS	0.75	0.75	0.75	0.75	0.75	0.75	
DATA SOURCE	CAT 1997 - wk	CAT 1997 - wk	CAT 1997 - wk	CAT 1997 - wk	CAT 1997 - wk	CAT 1997 - wk	
WHEEL LOADER							
MAKE/MODEL	CAT/988	CAT/988	CAT/988	CAT/988	CAT/988	CAT/988	
CAPACITY	7	7	7	7	7	7	cy
SPEED 2ND GEAR	10	10	10	10	10	10	mph
COST	$122.50	$122.50	$122.50	$122.50	$122.50	$122.50	per hr
MANEUVER TIME	0.25	0.25	0.25	0.25	0.25	0.25	min/cycle
EFFICIENCY	80	80	80	80	80	80	%
CORRECTION FACTORS	0.75	0.75	0.75	0.75	0.75	0.75	
DATASOURCE	CAT 1997 - wk	CAT 1997 - wk	CAT 1997 - wk	CAT 1997 - wk	CAT 1997 - wk	CAT 1997 - wk	
SCRAPER							
MAKE/MODEL	CAT/631E	CAT/631E	CAT/631E	CAT/631E	CAT/631E	CAT/631E	
CAPACITY	31	31	31	31	31	31	cy
AVERAGE SPEED	25	25	25	25	25	25	mph
UNIT COST	$147.50	$147.50	$147.50	$147.50	$147.50	$147.50	per hr
MANEUVER TIME	0.25	0.25	0.25	0.25	0.25	0.25	min/cycle
EFFICIENCY	80	80	80	80	80	80	%
CORRECTION FACTORS	1.00	1.00	1.00	1.00	1.00	1.00	
NUMBER OF SCRAPERS	3	3	3	3	3	3	
DATA SOURCE	CAT 1997 - wk	CAT 1997 - wk	CAT 1997 - wk	CAT 1997 - wk	CAT 1997 - wk	CAT 1997 - wk	
TRUCK							
MAKE/MODEL	CAT/769C	CAT/769C	CAT/769C	CAT/769C	CAT/769C	CAT/769C	
CAPACITY	17	17	17	17	17	17	cy
HAUL SPEED	15	15	15	15	15	15	mph
UNIT COST	$85.00	$85.00	$85.00	$85.00	$85.00	$85.00	per hr
MANEUVER TIME	0.55	0.55	0.55	0.55	0.55	0.55	min/cycle
EFFICIENCY	80	80	80	80	80	80	%
CORRECTION FACTORS	1.00	1.00	1.00	1.00	1.00	0.75	
NUMBER OF TRUCKS	2	2	2	2	2	2	
DATA SOURCE	CAT 1997 - wk	CAT 1997 - wk	CAT 1997 - wk	CAT 1997 - wk	CAT 1997 - wk	CAT 1997 - wk	
EXCAVATOR							
MAKE/MODEL	CAT/235	CAT/235	CAT/235	CAT/235	CAT/235	CAT/235	
CAPACITY	2.25	2.25	2.25	2.25	2.25	2.25	cy
UNIT COST	$106.25	$106.25	$106.25	$106.25	$106.25	$106.25	per hr
CYCLE TIME	0.33	0.33	0.33	0.33	0.33	0.33	min/cycle
EFFICIENCY	80	80	80	80	80	80	%
TRAVEL/SPREAD TIME	0.66	0.66	0.66	0.66	0.66	0.66	min/cycle
CORRECTION FACTORS	0.50	0.50	0.50	0.50	0.50	0.50	
DATA SOURCE	CAT 1997 - wk	CAT 1997 - wk	CAT 1997 - wk	CAT 1997 - wk	CAT 1997 - wk	CAT 1997 - wk	

CRICKET MOUNTAIN PROJECT

LABOR RATES - DATA RANGE							
LABOR RATES	**FACILITIES**	**HEAPS**	**ROADS**	**PONDS**	**DUMPS**	**PITS**	
GENERAL LABOR	*$13.46*	*$13.46*	*$13.46*	*$13.46*	*$13.46*	*$13.46*	per hr
DOZER OPERATOR	*$23.87*	*$23.87*	*$23.87*	*$23.87*	*$23.87*	*$23.87*	per hr
MOTOR GRADER OPERAT	*$23.87*	*$23.87*	*$23.87*	*$23.87*	*$23.87*	*$23.87*	per hr
WHEEL LOADER OPERAT	*$24.09*	*$24.09*	*$24.09*	*$24.09*	*$24.09*	*$24.09*	per hr
TRUCK DRIVER	*$23.87*	*$23.87*	*$23.87*	*$23.87*	*$23.87*	*$23.87*	per hr
SCRAPER OPERATOR	*$24.09*	*$24.09*	*$24.09*	*$24.09*	*$24.09*	*$24.09*	per hr
EXCAVATOR OPERATOR	*$24.09*	*$24.09*	*$24.09*	*$24.09*	*$24.09*	*$24.09*	per hr
DATA SOURCE	*1996 Davis-Bacon Wage Rates (UT960011)*						

CRICKET MOUNTAIN PROJECT
Seed Mix Specification

SEED AND AMENDMENT SUMMARY COSTS			
	Seed	Amendment	Total
Seed Mix #1	$75	$166	$241
Seed Mix #2			
Seed Mix #3			
Seed Mix #4			
Seed Mix #5			
Seed Mix #6			
Seed Mix #7			
Seed Mix #8			

CRICKET MOUNTAIN PROJECT
Seed Mix Specification

SEED AND AMENDMENT
SEED MIX #1

AREAS USING SEED MIX #1: *All*

SEED TYPE	APPL. lbs/acre	PLS pls/sq ft	COST $/lb	COST $/acre
Hycrest Crested Wheat	*1.44*	4.4	$0.95	$1.37
Luna Pubescent Wheat	*2.88*		$1.54	$4.44
Bozoisky Russian Wildrye	*2.88*		$8.15	$23.47
Kochia prostrata	*0.48*	2.5	$16.90	$8.11
Yellow Sweet Clover	*1.44*	7.4	$0.45	$0.65
Shadscale Saltbush	*1.44*	7.4	$5.50	$7.92
Four-wing Saltbush	*1.44*		$5.50	$7.92
Scarlet Globemallow	*0.10*		$170.00	$17.00
Utah Penstemon	*0.25*		$17.00	$4.25
TOTAL	**12.35**	**22**	**225.99**	**75.13**

AMENDMENT TYPE	APPL. lbs/acre	COST $/lb	COST $/acre
Ammonium Nitrate	*100.00*	$0.10	$10.00
Single Super Phosphate	*100.00*	$0.13	$13.00
Straw Mulch			
Composted Manure	*6000.00*	$0.02	$143

MIX #1 SEED COST	**$75**	/acre
MIX #1 AMENDMENT COST	**$166**	/acre

Notes:
Composted manure cost includes delivery and application

CRICKET MOUNTAIN PROJECT
Seed Mix Specification

SEED APPLICATION AND INCORPORATION COSTS

	COST/ACRE
Broad/Harrow	*46.93*
Drill	*526*
Hydroseeding	*500*
Harrowing	
Chain Harrowing	*25*
Ripping	
Discing	*75*

Source:

CRICKET MOUNTAIN PROJECT
Seed Mix Specification

AMENDMENT APPLICATION AND INCORPORATION COSTS

	COST/ACRE
Amendments	
Spreader	*30*
Hydromulching	
Mulch	
Hand/Crimp	*30*
Hand	*21*
Alfalfa Pellets	*300*

Source: R4-USFS

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

	Dump #1	Dump #2	Dump #3	Dump #4	Dump #5	Dump #6	Total
LEVEL AREA TO BE RECLAIMED (Acres)	23.3	12.7	7.8	6.2	18.6	23.3	91.9
SLOPE AREA TO BE RECLAIMED (Acres)	6.0	18.5	3.1	2.3	8.9	5.4	44.2
SLOPE REGRADING					$1,280	$1,191	$2,471
LEVEL AREA GRADING	$10,376	$5,657	$3,469	$2,769	$8,337	$10,376	$40,984
RIPPING SUBSOIL	$4,139	$2,248	$1,384	$1,117	$3,275	$4,124	$16,286
TOPSOIL REAPP - Level Areas	$15,239	$11,116	$5,135	$4,729	$14,731	$30,477	$81,427
TOPSOIL REAPP - Slopes (Truck/Load)							
TOPSOIL REAPP - Slopes (Scraper)					$6,942	$7,111	$14,053
SEED AND AMENDMENT COSTS - Level Ar	$5,614	$3,060	$1,879	$1,494	$542	$5,614	$18,202
SEED AND AMENDMENT COSTS - Slopes	$451	$1,390	$233	$173	$2,144	$1,301	$5,691
SEED/AMEND APPLICATION COSTS - Leve	$1,792	$977	$600	$477	$173	$1,792	$5,812
SEED/AMEND APPLICATION COSTS - Slop	$282	$868	$145	$108	$685	$415	$2,503
TOTALS	$37,892	$25,316	$12,846	$10,866	$38,109	$62,402	$187,431

Total Acres to be Reclaimed: 136.1

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #1: *West Quarry Area #1*

	Bench 1	Bench 2	Bench 3	Top	Total
Lift	*Bench 1*	*Bench 2*	*Bench 3*	*Top*	
Lift Height (feet)	*40*	*40*	*40*	*40*	
Bench Width (feet)	*25*	*25*	*25*	*760*	
Bench Area (acres)	0.3	0.5	0.7	21.8	23.3
Final Bench Width (feet)	25	25	25	760	
Final Bench Area (acres)	0.3	0.5	0.7	21.8	23.3
Crest Length (feet)	*600*	*930*	*1160*	*1250*	
Existing Slope Angle (degrees)	*37*	*37*	*37*	*37*	
Existing Slope Distance (feet)	66	66	66	66	
Existing Slope Area (acres)	0.9	1.4	1.8	1.9	6.0
Final Slope Angle (degrees)	*37*	*37*	*37*	*37*	
Final Slope Distance (feet)	66	66	66	66	
Final Slope Area (acres)	0.9	1.4	1.8	1.9	6.0
Topsoil Depth - Tops (feet)	*0.5*	*0.5*	*0.5*	*0.5*	
Topsoil Depth - Slopes (feet)					
Slope Reappl. Method (Scraper/T&L)	*S*	*S*	*S*	*S*	
Topsoil Haul Distance (feet)	*1500*	*1500*	*1500*	*1500*	
Total Topsoil Required (cu yd)	242	403	565	17,585	18,79[illegible]

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #1 Level Area Grading

Equipment	CAT/D9N
Graded Width (feet)	15.3
Average Pass Length (feet)	200
Number of Passes	3
Average Speed (mph)	1
Maneuver Time (min)	0.25
Correction Factor	0.75
Operating Cost ($/hr)	$125.00
Labor Cost ($/hr)	$23.87

	Bench 1	Bench 2	Bench 3	Top	Total
Average Pass Length (feet)	200	200	200	200	
Travel Distance (feet)	2,562	4,271	5,979	186,198	
Number of Passes	13	21	30	931	
Total Hours at 80% Efficiency	0.9	1.5	2.1	65.2	70
Total Labor Cost	$21	$36	$50	$1,556	$1,664
Total Operating Cost	$113	$188	$263	$8,150	$8,713
TOTALS	$134	$223	$313	$9,706	$10,376

DUMP #1 Level Grading $10,376

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #1 Subsoil Ripping

Equipment	CAT/D9N
Ripper Width (feet)	8.8
Average Speed (mph)	1
Maneuver Time (min)	0.25
Operating Cost ($/hr)	$125.00
Labor Cost ($/hr)	$23.87

	Bench 1	Bench 2	Bench 3	Top	Total
Average Pass Length (feet)	600	930	1160	1250	
Travel Distance (feet)	1,485	2,475	3,465	107,910	
Number of Passes	2	3	3	86	
Total Hours at 80% Efficiency	0.4	0.6	0.8	26	28
Total Labor Cost	$10	$14	$19	$621	$664
Total Operating Cost	$50	$75	$100	$3,250	$3,475
TOTALS	$60	$89	$119	$3,871	$4,139

DUMP #1 Ripping $4,139

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #1 Topsoil Reappl - Level

Scraper	CAT/631E
Number of Scapers	3
Capacity (cu yd)	31
Average Speed (mph)	25
Load, Dump, Maneuver Time (min)	0.25
Correction Factor	1
Operating Cost ($/hr)	$147.50
Labor Cost ($/hr)	$24.09

Dozer	CAT/D9N
Operating Cost ($/hr)	$125.00
Labor Cost ($/hr)	$23.87

	Bench 1	Bench 2	Bench 3	Top	Total
Volume to Move (cu yd)	242	403	565	17,585	18,795
Hourly Production (LCY)	290	290	290	290	
Total Hours per Scraper at 80% Efficiency	0.3	0.6	0.8	25.3	27
Total Scraper Labor Cost	$22	$43	$58	$1,828	$1,951
Total Scraper Operating Cost	$133	$266	$354	$11,195	$11,948
Total Scraper Costs	**$154**	**$309**	**$412**	**$13,024**	**$13,899**
Total Dozer Hours at 80% Efficiency	0.1	0.2	0.27	8.43	9
Total Dozer Labor Costs	$2	$5	$6	$201	$215
Total Dozer Operating Costs	$13	$25	$34	$1,054	$1,12[illegible]
Total Dozer Costs	**$15**	**$30**	**$40**	**$1,255**	**$1,3[illegible]**
TOTALS	$169	$339	$452	$14,279	

DUMP #1 Topsoil Reappl - Level	$15,239

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

SEED AND AMENDMENT COSTS

	Bench 1	Bench 2	Bench 3	Top	Total
Seed Mix - Tops	*1*	*1*	*1*	*1*	
Amendments - Tops	*1*	*1*	*1*	*1*	
Seed Mix - Slopes	*1*	*1*	*1*	*1*	
Amendments - Slopes					
Seed Costs - Tops	$23	$38	$53	$1,638	$1,750
Amendment Costs - Tops	$50	$83	$116	$3,614	$3,863
Seed Costs - Slopes	$68	$105	$135	$143	$4
Amendment Costs - Slopes					
TOTALS	$140	$226	$304	$5,395	

DUMP #1 Top Seed/Amendment	$5,614
DUMP #1 Slope Seed/Amendments	$451
DUMP #1 Seed/Amendment Total	$6,064

RESEEDING AND MULCHING COSTS

	Bench 1	Bench 2	Bench 3	Top	Total
Seed Application Method - Tops	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	
Amendments Application - Tops	*Spreader*	*Spreader*	*Spreader*	*Spreader*	
Mulch Application Method - Tops					
Seed Application Method - Slopes	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	
Amendments Application - Slopes					
Mulch Application Method - Slopes					
Seed Application Costs - Tops	$14	$23	$33	$1,023	$1,093
Amendment Application Costs - Tops	$9	$15	$21	$654	$699
Mulch Application Costs - Tops					
Seed Application Costs - Slopes	$42	$66	$84	$89	$28
Amendment Application Costs - Slopes					
Mulch Application Costs - Slopes					
TOTALS	$65	$104	$138	$1,766	

DUMP #1 Top Seeding/Mulching	$1,792
DUMP #1 Slope Seeding/Mulching	$282
DUMP #1 Seeding/Mulching Total	$2,074

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #2: *West Quarry Area #2*

	Bench 1	Bench 2	Bench 3	Bench 4	Bench 5	Top	Total
Lift Name	*Bench 1*	*Bench 2*	*Bench 3*	*Bench 4*	*Bench 5*	*Top*	
Lift Height (feet)	*40*	*40*	*40*	*40*	*40*	*40*	
Bench Width (feet)	*25*	*25*	*25*	*25*	*25*	*118*	
Bench Area (acres)	0.4	0.9	1.3	1.4	1.5	7.2	12.7
Final Bench Width (feet)	25	25	25	25	25	118	
Final Bench Area (acres)	0.4	0.9	1.3	1.4	1.5	7.2	12.7
Crest Length (feet)	*750*	*1630*	*2180*	*2430*	*2560*	*2670*	
Existing Slope Angle (degrees)	*37*	*37*	*37*	*37*	*37*	*37*	
Existing Slope Distance (feet)	66	66	66	66	66	66	
Existing Slope Area (acres)	1.1	2.5	3.3	3.7	3.9	4	18.5
Final Slope Angle (degrees)	*37*	*37*	*37*	*37*	*37*	*37*	
Final Slope Distance (feet)	66	66	66	66	66	66	
Final Slope Area (acres)	1.1	2.5	3.3	3.7	3.9	4	18.5
Topsoil Depth - Tops (feet)	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	
Topsoil Depth - Slopes (feet)							
Slope Reappl. Method (Scraper/T&L)	*S*	*S*	*S*	*S*	*S*	*S*	
Topsoil Haul Distance (feet)	*1375*	*1815*	*2090*	*2215*	*2280*	*2335*	
Total Topsoil Required (cu yd)	323	726	1,049	1,129	1,210	5,808	10,2

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #2 Level Area Grading

Equipment	CAT/D9N
Graded Width (feet)	15.3
Average Pass Length (feet)	200
Number of Passes	3
Average Speed (mph)	1
Maneuver Time (min)	0.25
Correction Factor	0.75
Operating Cost ($/hr)	$125.00
Labor Cost ($/hr)	$23.87

	Bench 1	Bench 2	Bench 3	Bench 4	Bench 5	Top	Total
Average Pass Length (feet)	200	200	200	200	200	200	
Travel Distance (feet)	3,416	7,687	11,104	11,958	12,812	61,496	
Number of Passes	17	38	56	60	64	307	
Total Hours at 80% Efficiency	1.2	2.7	3.9	4.2	4.5	21.5	38
Total Labor Cost	$29	$64	$93	$100	$107	$513	$907
Total Operating Cost	$150	$338	$488	$525	$563	$2,688	$4,750
TOTALS	$179	$402	$581	$625	$670	$3,201	$5,657

DUMP #2 Level Grading $5,657

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #2 Subsoil Ripping

Equipment	CAT/D9N
Ripper Width (feet)	8.8
Average Speed (mph)	1
Maneuver Time (min)	0.25
Operating Cost ($/hr)	$125.00
Labor Cost ($/hr)	$23.87

	Bench 1	Bench 2	Bench 3	Bench 4	Bench 5	Top	Total
Average Pass Length (feet)	750	1630	2180	2430	2560	2670	
Travel Distance (feet)	1,980	4,455	6,435	6,930	7,425	35,640	
Number of Passes	3	3	3	3	3	13	
Total Hours at 80% Efficiency	0.5	1.1	1.5	1.7	1.8	8.5	15
Total Labor Cost	$12	$26	$36	$41	$43	$203	$360
Total Operating Cost	$63	$138	$188	$213	$225	$1,063	$1,888
TOTALS	$74	$164	$223	$253	$268	$1,265	$2,248

DUMP #2 Ripping $2,248

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #2 Topsoil Reappl - Level

Scraper	CAT/631E
Number of Scapers	3
Capacity (cu yd)	31
Average Speed (mph)	25
Load, Dump, Maneuver Time (min)	0.25
Correction Factor	1
Operating Cost ($/hr)	$147.50
Labor Cost ($/hr)	$24.09

Dozer	CAT/D9N
Operating Cost ($/hr)	$125.00
Labor Cost ($/hr)	$23.87

	Bench 1	Bench 2	Bench 3	Bench 4	Bench 5	Top	Total
Volume to Move (cu yd)	323	726	1,049	1,129	1,210	5,808	10,245
Hourly Production (LCY)	320	240	225	210	210	210	
Total Hours per Scraper at 80% Efficiency	0.4	1.3	1.9	2.2	2.4	11.5	20
Total Scraper Labor Cost	$29	$94	$137	$159	$173	$831	$1,424
Total Scraper Operating Cost	$177	$575	$841	$974	$1,062	$5,089	$8,717
Total Scraper Costs	**$206**	**$669**	**$978**	**$1,132**	**$1,235**	**$5,920**	**$10,141**
Total Dozer Hours at 80% Efficiency	0.1	0.43	0.63	0.73	0.8	3.83	7
Total Dozer Labor Costs	$3	$10	$15	$17	$19	$91	$156
Total Dozer Operating Costs	$16	$54	$79	$91	$100	$479	$81[illegible]
Total Dozer Costs	**$19**	**$64**	**$94**	**$109**	**$119**	**$570**	**$9[illegible]**
TOTALS	$225	$733	$1,072	$1,241	$1,355	$6,490	

DUMP #2 Topsoil Reappl - Level	$11,116

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CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

SEED AND AMENDMENT COSTS

	Bench 1	Bench 2	Bench 3	Bench 4	Bench 5	Top	Total
Seed Mix - Tops	*1*	*1*	*1*	*1*	*1*	*1*	
Amendments - Tops	*1*	*1*	*1*	*1*	*1*	*1*	
Seed Mix - Slopes	*1*	*1*	*1*	*1*	*1*	*1*	
Amendments - Slopes							
Seed Costs - Tops	$30	$68	$98	$105	$113	$541	$954
Amendment Costs - Tops	$66	$149	$216	$232	$249	$1,194	$2,106
Seed Costs - Slopes	$83	$188	$248	$278	$293	$301	$1,[illegible]
Amendment Costs - Slopes							
TOTALS	$179	$405	$561	$615	$654	$2,035	

DUMP #2 Top Seed/Amendment	$3,060
DUMP #2 Slope Seed/Amendments	$1,390
DUMP #2 Seed/Amendment Total	$4,450

RESEEDING AND MULCHING COSTS

	Bench 1	Bench 2	Bench 3	Bench 4	Bench 5	Top	Total
Seed Application Method - Tops	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	
Amendments Application - Tops	*Spreader*	*Spreader*	*Spreader*	*Spreader*	*Spreader*	*Spreader*	
Mulch Application Method - Tops							
Seed Application Method - Slopes	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	
Amendments Application - Slopes							
Mulch Application Method - Slopes							
Seed Application Costs - Tops	$19	$42	$61	$66	$70	$338	$596
Amendment Application Costs - Tops	$12	$27	$39	$42	$45	$216	$381
Mulch Application Costs - Tops							
Seed Application Costs - Slopes	$52	$117	$155	$174	$183	$188	$[illegible]
Amendment Application Costs - Slopes							
Mulch Application Costs - Slopes							
TOTALS	$82	$187	$255	$281	$298	$742	

DUMP #2 Top Seeding/Mulching	$977
DUMP #2 Slope Seeding/Mulching	$868
DUMP #2 Seeding/Mulching Total	$1,845

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #3: *West Quarry Area #3*

	Bench 1	Top	Total
Lift	*Bench 1*	*Top*	
Lift Height (feet)	*40*	*40*	
Bench Width (feet)	*25*	*275*	
Bench Area (acres)	0.5	7.3	7.8
Final Bench Width (feet)	25	275	
Final Bench Area (acres)	0.5	7.3	7.8
Crest Length (feet)	*900*	*1150*	
Existing Slope Angle (degrees)	*37*	*37*	
Existing Slope Distance (feet)	66	66	
Existing Slope Area (acres)	1.4	1.7	3.1
Final Slope Angle (degrees)	*37*	*37*	
Final Slope Distance (feet)	66	66	
Final Slope Area (acres)	1.4	1.7	3.1
Topsoil Depth - Tops (feet)	*0.5*	*0.5*	
Topsoil Depth - Slopes (feet)			
Slope Reappl. Method (Scraper/T&L)	*S*	*S*	
Topsoil Haul Distance (feet)	*1500*	*1500*	
Total Topsoil Required (cu yd)	403	5,889	6,2

DUMP #3 Level Area Grading

Equipment	CAT/D9N
Graded Width (feet)	15.3
Average Pass Length (feet)	200
Number of Passes	3
Average Speed (mph)	1
Maneuver Time (min)	0.25
Correction Factor	0.75
Operating Cost ($/hr)	$125.00
Labor Cost ($/hr)	$23.87

	Bench 1	Top	Total
Average Pass Length (feet)	200	200	
Travel Distance (feet)	4,271	62,351	
Number of Passes	21	312	
Total Hours at 80% Efficiency	1.5	21.8	23
Total Labor Cost	$36	$520	$556
Total Operating Cost	$188	$2,725	$2,913
TOTALS	$223	$3,245	$3,469

DUMP #3 Level Grading	$3,469

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #3 Subsoil Ripping

Equipment	CAT/D9N
Ripper Width (feet)	8.8
Average Speed (mph)	1
Maneuver Time (min)	0.25
Operating Cost ($/hr)	$125.00
Labor Cost ($/hr)	$23.87

	Bench 1	Top	Total
Average Pass Length (feet)	900	1150	
Travel Distance (feet)	2,475	36,135	
Number of Passes	3	31	
Total Hours at 80% Efficiency	0.6	8.7	9
Total Labor Cost	$14	$208	$222
Total Operating Cost	$75	$1,088	$1,163
TOTALS	$89	$1,295	$1,384

DUMP #3 Ripping $1,384

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #3 Topsoil Reappl - Level

Scraper	CAT/631E
Number of Scapers	3
Capacity (cu yd)	31
Average Speed (mph)	25
Load, Dump, Maneuver Time (min)	0.25
Correction Factor	1
Operating Cost ($/hr)	$147.50
Labor Cost ($/hr)	$24.09

Dozer	CAT/D9N
Operating Cost ($/hr)	$125.00
Labor Cost ($/hr)	$23.87

	Bench 1	Top	Total
Volume to Move (cu yd)	403	5,889	6,292
Hourly Production (LCY)	290	290	
Total Hours per Scraper at 80% Efficiency	0.6	8.5	9
Total Scraper Labor Cost	$43	$614	$658
Total Scraper Operating Cost	$266	$3,761	$4,027
Total Scraper Costs	**$309**	**$4,376**	**$4,684**
Total Dozer Hours at 80% Efficiency	0.2	2.83	3
Total Dozer Labor Costs	$5	$68	$72
Total Dozer Operating Costs	$25	$354	$37[illegible]
Total Dozer Costs	**$30**	**$421**	**$4**
TOTALS	$339	$4,797	

DUMP #3 Topsoil Reappl - Level	$5,135

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

SEED AND AMENDMENT COSTS

	Bench 1	Top	Total
Seed Mix - Tops	*1*	*1*	
Amendments - Tops	*1*	*1*	
Seed Mix - Slopes	*1*	*1*	
Amendments - Slopes			
Seed Costs - Tops	$38	$548	$586
Amendment Costs - Tops	$83	$1,210	$1,293
Seed Costs - Slopes	$105	$128	$2
Amendment Costs - Slopes			
TOTALS	$226	$1,886	

DUMP #3 Top Seed/Amendment	$1,879
DUMP #3 Slope Seed/Amendments	$233
DUMP #3 Seed/Amendment Total	$2,112

RESEEDING AND MULCHING COSTS

	Bench 1	Top	Total
Seed Application Method - Tops	*Broad/Harrow*	*Broad/Harrow*	
Amendments Application - Tops	*Spreader*	*Spreader*	
Mulch Application Method - Tops			
Seed Application Method - Slopes	*Broad/Harrow*	*Broad/Harrow*	
Amendments Application - Slopes			
Mulch Application Method - Slopes			
Seed Application Costs - Tops	$23	$343	$366
Amendment Application Costs - Tops	$15	$219	$234
Mulch Application Costs - Tops			
Seed Application Costs - Slopes	$66	$80	$14
Amendment Application Costs - Slopes			
Mulch Application Costs - Slopes			
TOTALS	$104	$641	

DUMP #3 Top Seeding/Mulching	$600
DUMP #3 Slope Seeding/Mulching	$145
DUMP #3 Seeding/Mulching Total	$746

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #4: *West Quarry Area #4*

	Bench 1	Top	Total
Lift	*Bench 1*	*Top*	
Lift Height (feet)	*40*	*40*	
Bench Width (feet)	*25*	*305*	
Bench Area (acres)	0.4	5.8	6.2
Final Bench Width (feet)	25	305	
Final Bench Area (acres)	0.4	5.8	6.2
Crest Length (feet)	*690*	*830*	
Existing Slope Angle (degrees)	*37*	*37*	
Existing Slope Distance (feet)	66	66	
Existing Slope Area (acres)	1	1.3	2.3
Final Slope Angle (degrees)	*37*	*37*	
Final Slope Distance (feet)	66	66	
Final Slope Area (acres)	1	1.3	2.3
Topsoil Depth - Tops (feet)	*0.5*	*0.5*	
Topsoil Depth - Slopes (feet)			
Slope Reappl. Method (Scraper/T&L)	*S*	*S*	
Topsoil Haul Distance (feet)	*1500*	*1500*	
Total Topsoil Required (cu yd)	323	4,679	5,00[illegible]

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #4 Level Area Grading

Equipment	CAT/D9N
Graded Width (feet)	15.3
Average Pass Length (feet)	200
Number of Passes	3
Average Speed (mph)	1
Maneuver Time (min)	0.25
Correction Factor	0.75
Operating Cost ($/hr)	$125.00
Labor Cost ($/hr)	$23.87

	Bench 1	Top	Total
Average Pass Length (feet)	200	200	
Travel Distance (feet)	3,416	49,539	
Number of Passes	17	248	
Total Hours at 80% Efficiency	1.2	17.4	19
Total Labor Cost	$29	$415	$444
Total Operating Cost	$150	$2,175	$2,325
TOTALS	$179	$2,590	$2,769

DUMP #4 Level Grading	$2,769

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #4 Subsoil Ripping

Equipment	CAT/D9N
Ripper Width (feet)	8.8
Average Speed (mph)	1
Maneuver Time (min)	0.25
Operating Cost ($/hr)	$125.00
Labor Cost ($/hr)	$23.87

	Bench 1	Top	Total
Average Pass Length (feet)	690	830	
Travel Distance (feet)	1,980	28,710	
Number of Passes	3	35	
Total Hours at 80% Efficiency	0.5	7	8
Total Labor Cost	$12	$167	$179
Total Operating Cost	$63	$875	$938
TOTALS	$74	$1,042	$1,117

DUMP #4 Ripping $1,117

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #4 Topsoil Reappl - Level

Scraper	CAT/631E
Number of Scapers	3
Capacity (cu yd)	31
Average Speed (mph)	25
Load, Dump, Maneuver Time (min)	0.25
Correction Factor	1
Operating Cost ($/hr)	$147.50
Labor Cost ($/hr)	$24.09

Dozer	CAT/D9N
Operating Cost ($/hr)	$125.00
Labor Cost ($/hr)	$23.87

	Bench 1	Top	Total
Volume to Move (cu yd)	323	4,679	5,002
Hourly Production (LCY)	290	290	
Total Hours per Scraper at 80% Efficiency	0.5	6.7	7
Total Scraper Labor Cost	$36	$484	$520
Total Scraper Operating Cost	$221	$2,965	$3,186
Total Scraper Costs	**$257**	**$3,449**	**$3,706**
Total Dozer Hours at 80% Efficiency	0.2	6.7	7
Total Dozer Labor Costs	$4	$160	$164
Total Dozer Operating Costs	$21	$838	$859
Total Dozer Costs	**$25**	**$997**	**$1,0**
TOTALS	$283	$4,446	

DUMP #4 Topsoil Reappl - Level	$4,729

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

SEED AND AMENDMENT COSTS

	Bench 1	Top	Total
Seed Mix - Tops	*1*	*1*	
Amendments - Tops	*1*	*1*	
Seed Mix - Slopes	*1*	*1*	
Amendments - Slopes			
Seed Costs - Tops	$30	$436	$466
Amendment Costs - Tops	$66	$962	$1,028
Seed Costs - Slopes	$75	$98	$1
Amendment Costs - Slopes			
TOTALS	$171	$1,495	

DUMP #4 Top Seed/Amendment	$1,494
DUMP #4 Slope Seed/Amendments	$173
DUMP #4 Seed/Amendment Total	$1,667

RESEEDING AND MULCHING COSTS

	Bench 1	Top	Total
Seed Application Method - Tops	*Broad/Harrow*	*Broad/Harrow*	
Amendments Application - Tops	*Spreader*	*Spreader*	
Mulch Application Method - Tops			
Seed Application Method - Slopes	*Broad/Harrow*	*Broad/Harrow*	
Amendments Application - Slopes			
Mulch Application Method - Slopes			
Seed Application Costs - Tops	$19	$272	$291
Amendment Application Costs - Tops	$12	$174	$186
Mulch Application Costs - Tops			
Seed Application Costs - Slopes	$47	$61	$1
Amendment Application Costs - Slopes			
Mulch Application Costs - Slopes			
TOTALS	$78	$507	

DUMP #4 Top Seeding/Mulching	$477
DUMP #4 Slope Seeding/Mulching	$108
DUMP #4 Seeding/Mulching Total	$585

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #5: *Poison Mtn. Undersize Material*

	Bench 1	Bench 2	Bench 3-N	Bench 3-E	Bench 4/Top	Top	Total
Lift	*Bench 1*	*Bench 2*	*Bench 3-N*	*Bench 3-E*	*Bench 4/Top*	*Top*	
Lift Height (feet)	*20*	*20*	*20*	*20*	*20*		
Bench Width (feet)	*87*	*87*	*87*	*87*	*16*	*310*	
Bench Area (acres)	1.6	2.2	2.5	1.6	0.8	16.4	25.1
Final Bench Width (feet)	25	25	25	25		310	
Final Bench Area (acres)	0.5	0.6	0.7	0.5		16.4	18.6
Crest Length (feet)	*790*	*1080*	*1260*	*790*	*2300*	*2300*	
Existing Slope Angle (degrees)	*37*	*37*	*37*	*37*	*37*	*37*	
Existing Slope Distance (feet)	33	33	33	33	33		
Existing Slope Area (acres)	0.6	0.8	1	0.6	1.7		4.7
Final Slope Angle (degrees)	*18.4*	*18.4*	*18.4*	*18.4*	*18.4*	*37*	
Final Slope Distance (feet)	63	63	63	63	63		
Final Slope Area (acres)	1.1	1.6	1.8	1.1	3.3		8.9
Topsoil Depth - Tops (feet)	*0.5*	*0.5*	*0.5*	*0.5*		*0.5*	
Topsoil Depth - Slopes (feet)	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*		
Slope Reappl. Method (Scraper/T&L)	*S*	*S*	*S*	*S*	*S*	*S*	
Topsoil Haul Distance (feet)	*2000*	*2000*	*2000*	*2000*	*2000*	*2000*	
Total Topsoil Required (cu yd)	1,253	1,791	2,035	1,253	2,662	13,229	22,2.

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #5 Slope Grading

Dozer Type	CAT/D9N
Graded Width (feet)	15.3
Average Speed (mph)	1
Maneuver Time (min)	0.25
Correction Factor	0.75
Operating Cost ($/hr)	$125.00
Labor Cost ($/hr)	$23.87

	Bench 1	Bench 2	Bench 3-N	Bench 3-E	Bench 4/Top	Top	Total
Volume to Move (cu yd)	2,456	3,358	3,918	2,456	7,152		
Hourly Production (LCY/hr)	2,835	2,835	2,835	2,835	2,835		
Total Hours at 80% Efficiency	1.1	1.5	1.7	1.1	3.2		8.6
Total Labor Cost	$26	$36	$41	$26	$76		$205
Total Operating Cost	$138	$188	$213	$138	$400		$1,075
TOTALS	$164	$223	$253	$164	$476		

DUMP #5 Slope Grading	$1,280

DUMP #5 Level Area Grading

Equipment	CAT/D9N
Graded Width (feet)	15.3
Average Pass Length (feet)	200
Number of Passes	3
Average Speed (mph)	1
Maneuver Time (min)	0.25
Correction Factor	0.75
Operating Cost ($/hr)	$125.00
Labor Cost ($/hr)	$23.87

	Bench 1	Bench 2	Bench 3-N	Bench 3-E	Bench 4/Top	Top	Total
Average Pass Length (feet)	200	200	200	200		200	
Travel Distance (feet)	3,873	5,294	6,176	3,873		140,075	
Number of Passes	19	26	31	19		700	
Total Hours at 80% Efficiency	1.4	1.9	2.2	1.4		49.1	56
Total Labor Cost	$33	$45	$53	$33		$1,172	$1,337
Total Operating Cost	$175	$238	$275	$175		$6,138	$7,000
TOTALS	$208	$283	$328	$208		$7,310	$8,337

DUMP #5 Level Grading $8,337

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #5 Subsoil Ripping

Equipment	CAT/D9N
Ripper Width (feet)	8.8
Average Speed (mph)	1
Maneuver Time (min)	0.25
Operating Cost ($/hr)	$125.00
Labor Cost ($/hr)	$23.87

	Bench 1	Bench 2	Bench 3-N	Bench 3-E	Bench 4/Top	Top	Total
Average Pass Length (feet)	790	1080	1260	790		2300	
Travel Distance (feet)	2,244	3,068	3,580	2,244		81,180	
Number of Passes	3	3	3	3		35	
Total Hours at 80% Efficiency	0.5	0.7	0.9	0.5		19.4	22
Total Labor Cost	$12	$17	$21	$12		$463	$525
Total Operating Cost	$63	$88	$113	$63		$2,425	$2,750
TOTALS	$74	$104	$134	$74		$2,888	$3,275

DUMP #5 Ripping $3,275

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #5 Topsoil Reappl - Level

Scraper	CAT/631E
Number of Scapers	3
Capacity (cu yd)	31
Average Speed (mph)	25
Load, Dump, Maneuver Time (min)	0.25
Correction Factor	1
Operating Cost ($/hr)	$147.50
Labor Cost ($/hr)	$24.09

Dozer	CAT/D9N
Operating Cost ($/hr)	$125.00
Labor Cost ($/hr)	$23.87

	Bench 1	Bench 2	Bench 3-N	Bench 3-E	Bench 4/Top	Top	Total
Volume to Move (cu yd)	366	500	583	366		13,229	15,044
Hourly Production (LCY)	240	240	240	240		240	
Total Hours per Scraper at 80% Efficiency	0.6	0.9	1	0.6		23	26
Total Scraper Labor Cost	$43	$65	$72	$43		$1,662	$1,886
Total Scraper Operating Cost	$266	$398	$443	$266		$10,178	$11,549
Total Scraper Costs	**$309**	**$463**	**$515**	**$309**		**$11,840**	**$13,435**
Total Dozer Hours at 80% Efficiency	0.2	0.3	0.33	0.2		7.67	9
Total Dozer Labor Costs	$5	$7	$8	$5		$183	$208
Total Dozer Operating Costs	$25	$38	$41	$25		$959	$1,08[illegible]
Total Dozer Costs	**$30**	**$45**	**$49**	**$30**		**$1,142**	**$1,2[illegible]**
TOTALS	$339	$508	$564	$339		$12,982	

DUMP #5 Topsoil Reappl - Level $14,731

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CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #5 Topsoil Slopes (Scraper)

Scraper	CAT/631E
Number of Scapers	3
Capacity (cu yd)	31
Average Speed (mph)	25
Load, Dump, Maneuver Time (min)	0.25
Correction Factor	1
Operating Cost ($/hr)	$147.50
Labor Cost ($/hr)	$24.09

Dozer	CAT/D9N
Operating Cost ($/hr)	$125.00
Labor Cost ($/hr)	$23.87

	Bench 1	Bench 2	Bench 3-N	Bench 3-E	Bench 4/Top	Top	Total
Volume to Move (cu yd)	887	1,291	1,452	887	2,662		7,179
Hourly Production (LCY)	240	240	240	240	240		
Total Hours per Scraper at 80% Efficiency	1.5	2.2	2.5	1.5	4.6		12.3
Total Scraper Labor Cost	$108	$159	$181	$108	$332		$889
Total Scraper Operating Cost	$664	$974	$1,106	$664	$2,036		$5,443
Total Scraper Costs	$772	$1,132	$1,287	$772	$2,368		$6,332
Total Dozer Hours at 80% Efficiency	0.5	0.7	0.8	0.5	1.5		4.1
Total Dozer Labor Costs	$12	$18	$20	$12	$37		$98
Total Dozer Operating Costs	$63	$92	$104	$63	$192		$51[illegible]
Total Dozer Costs	$74	$109	$124	$74	$228		$6[illegible]
TOTALS	$847	$1,242	$1,411	$847	$2,596		

DUMP #5 Topsoil Reappl - Slopes $6,942

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

SEED AND AMENDMENT COSTS

	Bench 1	Bench 2	Bench 3-N	Bench 3-E	Bench 4/Top	Top	Total
Seed Mix - Tops	*1*	*1*	*1*	*1*	*1*		
Amendments - Tops	*1*	*1*	*1*	*1*	*1*		
Seed Mix - Slopes	*1*	*1*	*1*	*1*	*1*		
Amendments - Slopes	*1*	*1*	*1*	*1*	*1*		
Seed Costs - Tops	$34	$47	$54	$34			$169
Amendment Costs - Tops	$75	$103	$120	$75			$373
Seed Costs - Slopes	$83	$120	$135	$83	$248		$6
Amendment Costs - Slopes	$182	$265	$298	$182	$547		$1,4
TOTALS	$374	$535	$608	$374	$795		

DUMP #5 Top Seed/Amendment	$542
DUMP #5 Slope Seed/Amendments	$2,144
DUMP #5 Seed/Amendment Total	$2,686

RESEEDING AND MULCHING COSTS

	Bench 1	Bench 2	Bench 3-N	Bench 3-E	Bench 4/Top	Top	Total
Seed Application Method - Tops	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*		
Amendments Application - Tops	*Spreader*	*Spreader*	*Spreader*	*Spreader*	*Spreader*		
Mulch Application Method - Tops							
Seed Application Method - Slopes	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*		
Amendments Application - Slopes	*Spreader*	*Spreader*	*Spreader*	*Spreader*	*Spreader*		
Mulch Application Method - Slopes							
Seed Application Costs - Tops	$21	$29	$34	$21			$106
Amendment Application Costs - Tops	$14	$19	$22	$14			$67
Mulch Application Costs - Tops							
Seed Application Costs - Slopes	$52	$75	$84	$52	$155		$4
Amendment Application Costs - Slopes	$33	$48	$54	$33	$99		$267
Mulch Application Costs - Slopes							
TOTALS	$120	$171	$194	$120	$254		

DUMP #5 Top Seeding/Mulching	$173
DUMP #5 Slope Seeding/Mulching	$685
DUMP #5 Seeding/Mulching Total	$858

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #6: *BB Dolomite Undersize Material*

	Top/West	North Slope	Total
Lift	*Top/West*	*North Slope*	
Lift Height (feet)	*20*	*40*	
Bench Width (feet)	*650*		
Bench Area (acres)	24.8		24.8
Final Bench Width (feet)	226		
Final Bench Area (acres)	*23*		23.3
Crest Length (feet)	*1664*	*1040*	
Existing Slope Angle (degrees)	*37*	*37*	
Existing Slope Distance (feet)	33	66	
Existing Slope Area (acres)	1.3	1.6	2.9
Final Slope Angle (degrees)	*18.4*	*18.4*	
Final Slope Distance (feet)	63	127	
Final Slope Area (acres)	2.4	3	5.4
Topsoil Depth - Tops (feet)	*1*		
Topsoil Depth - Slopes (feet)	*1*	*1*	
Slope Reappl. Method (Scraper/T&L)	*S*	*S*	
Topsoil Haul Distance (feet)	*1500*	*1500*	
Total Topsoil Required (cu yd)	41,463	4,840	46,3ι

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #6 Slope Grading

Dozer Type	CAT/D9N
Graded Width (feet)	15.3
Average Speed (mph)	1
Maneuver Time (min)	0.25
Correction Factor	0.75
Operating Cost ($/hr)	$125.00
Labor Cost ($/hr)	$23.87

	Top/West	North Slope	Total
Volume to Move (cu yd)	5,174	12,935	
Hourly Production (LCY/hr)	2,835	2,835	
Total Hours at 80% Efficiency	2.3	5.7	8
Total Labor Cost	$55	$136	$191
Total Operating Cost	$288	$713	$1,000
TOTALS	$342	$849	

DUMP #6 Slope Grading	$1,191

DUMP #6 Level Area Grading

Equipment	CAT/D9N
Graded Width (feet)	15.3
Average Pass Length (feet)	200
Number of Passes	3
Average Speed (mph)	1
Maneuver Time (min)	0.25
Correction Factor	0.75
Operating Cost ($/hr)	$125.00
Labor Cost ($/hr)	$23.87

	Top/West	North Slope	Total
Average Pass Length (feet)	200		
Travel Distance (feet)	199,009		
Number of Passes	995		
Total Hours at 80% Efficiency	69.7		70
Total Labor Cost	$1,664		$1,664
Total Operating Cost	$8,713		$8,713
TOTALS	$10,376		$10,376

DUMP #6 Level Grading	$10,376

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #6 Subsoil Ripping

Equipment	CAT/D9N
Ripper Width (feet)	8.8
Average Speed (mph)	1
Maneuver Time (min)	0.25
Operating Cost ($/hr)	$125.00
Labor Cost ($/hr)	$23.87

	Top/West	North Slope	Total
Average Pass Length (feet)	1664		
Travel Distance (feet)	115,335		
Number of Passes	69		
Total Hours at 80% Efficiency	27.7		28
Total Labor Cost	$661		$661
Total Operating Cost	$3,463		$3,463
TOTALS	$4,124		$4,124

DUMP #6 Ripping $4,124

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #6 Topsoil Reappl - Level

Scraper	CAT/631E
Number of Scapers	3
Capacity (cu yd)	31
Average Speed (mph)	25
Load, Dump, Maneuver Time (min)	0.25
Correction Factor	1
Operating Cost ($/hr)	$147.50
Labor Cost ($/hr)	$24.09

Dozer	CAT/D9N
Operating Cost ($/hr)	$125.00
Labor Cost ($/hr)	$23.87

	Top/West	North Slope	Total
Volume to Move (cu yd)	37,591		37,591
Hourly Production (LCY)	290		
Total Hours per Scraper at 80% Efficiency	54.0		54
Total Scraper Labor Cost	$3,903		$3,903
Total Scraper Operating Cost	$23,895		$23,895
Total Scraper Costs	**$27,798**		**$27,798**
Total Dozer Hours at 80% Efficiency	18.0		18
Total Dozer Labor Costs	$430		$430
Total Dozer Operating Costs	$2,250		$2,250
Total Dozer Costs	**$2,680**		**$2,6**
TOTALS	$30,477		

DUMP #6 Topsoil Reappl - Level $30,477

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #6 Topsoil Slopes (Scraper)

Scraper	CAT/631E
Number of Scapers	3
Capacity (cu yd)	31
Average Speed (mph)	25
Load, Dump, Maneuver Time (min)	0.25
Correction Factor	1
Operating Cost ($/hr)	$147.50
Labor Cost ($/hr)	$24.09

Dozer	CAT/D9N
Operating Cost ($/hr)	$125.00
Labor Cost ($/hr)	$23.87

	Top/West	North Slope	Total
Volume to Move (cu yd)	3,872	4,840	8,712
Hourly Production (LCY)	290	290	
Total Hours per Scraper at 80% Efficiency	5.6	7.0	12.6
Total Scraper Labor Cost	$405	$506	$911
Total Scraper Operating Cost	$2,478	$3,098	$5,576
Total Scraper Costs	$2,883	$3,603	$6,486
Total Dozer Hours at 80% Efficiency	1.9	2.3	4.2
Total Dozer Labor Costs	$45	$56	$100
Total Dozer Operating Costs	$233	$292	$52[illegible]
Total Dozer Costs	$278	$347	$6[illegible]
TOTALS	$3,161	$3,951	

DUMP #6 Topsoil Reappl - Slopes $7,111

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

SEED AND AMENDMENT COSTS

	Top/West	North Slope	Total
Seed Mix - Tops	*1*		
Amendments - Tops	*1*		
Seed Mix - Slopes	*1*	*1*	
Amendments - Slopes	*1*	*1*	
Seed Costs - Tops	$1,750		$1,750
Amendment Costs - Tops	$3,863		$3,863
Seed Costs - Slopes	$180	$225	$4
Amendment Costs - Slopes	$398	$497	$8
TOTALS	$6,192	$723	

DUMP #6 Top Seed/Amendment	$5,614
DUMP #6 Slope Seed/Amendments	$1,301
DUMP #6 Seed/Amendment Total	$6,915

RESEEDING AND MULCHING COSTS

	Top/West	North Slope	Total
Seed Application Method - Tops	*Broad/Harrow*		
Amendments Application - Tops	*Spreader*		
Mulch Application Method - Tops			
Seed Application Method - Slopes	*Broad/Harrow*	*Broad/Harrow*	
Amendments Application - Slopes	*Spreader*	*Spreader*	
Mulch Application Method - Slopes			
Seed Application Costs - Tops	$1,093		$1,093
Amendment Application Costs - Tops	$699		$699
Mulch Application Costs - Tops			
Seed Application Costs - Slopes	$113	$141	$2
Amendment Application Costs - Slopes	$72	$90	$162
Mulch Application Costs - Slopes			
TOTALS	$1,977	$231	

DUMP #6 Top Seeding/Mulching	$1,792
DUMP #6 Slope Seeding/Mulching	$415
DUMP #6 Seeding/Mulching Total	$2,208

CRICKET MOUNTAIN PROJECT
Road Reclamation Costs

	BB Area	West Quarry	Total
RECONTOURING - Excavator			
RECONTOURING - Dozer	$1,682	$3,275	$4,957
RIPPING SUBSOIL	$1,191	$2,203	$3,394
TOPSOIL REAPPLICATION - LEVEL AREAS	$3,500	$6,547	$10,0[illegible]
TOPSOIL REAPPLICATION - SLOPES	$1,866	$3,524	$5,
TOPSOIL GRADING - LEVEL AREAS			
TOPSOIL GRADING - SLOPES			
SEED AND AMENDMENT COSTS	$1,566	$2,915	$4,481
SEED & AMENDMENT APPLICATION COSTS	$500	$931	$1,431
TOTALS	$10,305	$19,396	$29,700

Total Acres to be Reclaimed: 19

	Road #1	Road #2	Road #3	Road #4	Road #5	Road #6	Road #7	Road #8	Road #9	Road #10	Total
Description	*BB Area*	*West Quarry*									
Road Width (feet)	*80*	*80*									
Average Slope Angle (degrees)	5	5									
Average Disturbed Width (feet)	90	50									
Road Length (feet)	3,158	10,563									13,
Disturbed Area (acres)	6.5	12.1									19
Percent Replacement	*90*	*90*									
Recontour Method (D=Dozer, E=Excavator)	*D*	*D*									
Topsoil Depth - Tops (feet)	*0.5*	*0.5*									
Topsoil Depth - Slopes (feet)	*0.5*	*0.5*									
Topsoil Haul Distance (feet)	*1500*	*1500*									

CRICKET MOUNTAIN PROJECT
Road Reclamation Costs

RECONTOURING - Excavator

Excavator Type	CAT/235
Bucket Capacity (cu yd)	2.25
Cycle Time (min/load)	0.33
Travel/Spread Time (min/load)	0.66
Operating Cost ($/hr)	$106.25
Labor Cost ($/hr)	$24.09

	BB Area	West Quarry	T
Volume to Move (cu yd)			
Hourly Production (LCY/hr)			
Total Hours at 80% Efficiency			
Total Labor Cost			
Total Operating Cost			
TOTALS			

RECONTOURING - Excavator

RECONTOURING - Dozer

Equipment	CAT/D9N
Graded Width (feet)	15.3
Average Pass Length (feet)	300
Average Speed (mph)	1
Maneuver Time (min)	0.5
Operating Cost ($/hr)	$125.00
Labor Cost ($/hr)	$23.87

	BB Area	West Quarry	Total
Volume to Move (cu yd)	8,297	27,751	
Hourly Production (LCY/hr)	915	1,575	
Total Hours at 80% Efficiency	11.3	22	33
Total Labor Cost	$270	$525	$795
Total Operating Cost	$1,413	$2,750	$4,163
TOTALS	$1,682	$3,275	

RECONTOURING - Dozer $4,957

CRICKET MOUNTAIN PROJECT
Road Reclamation Costs

SUBSOIL RIPPING

Equipment	CAT/D9N
Ripper Width (feet)	8.8
Average Speed (mph)	1
Maneuver Time (min)	0.5
Operating Cost ($/hr)	$125.00
Labor Cost ($/hr)	$23.87

	BB Area	West Quarry	Total
Average Pass Length (feet)	*1000*	*1000*	
Travel Distance (feet)	32,175	59,895	
Number of Passes	32	60	
Total Hours at 80% Efficiency	8	14.8	23
Total Labor Cost	$191	$353	$544
Total Operating Cost	$1,000	$1,850	$2,850
TOTALS	$1,191	$2,203	

SUBSOIL RIPPING	$3,394

CRICKET MOUNTAIN PROJECT
Road Reclamation Costs

TOPSOIL REAPPLICATION - LEVEL AREAS

Scraper	CAT/631E
Number of Scapers	3
Capacity (cu yd)	31
Average Speed (mph)	25
Load, Dump, Maneuver Time (min)	0.25
Correction Factor	1
Operating Cost ($/hr)	$147.50
Labor Cost ($/hr)	$24.09

Dozer	CAT/D9N
Operating Cost ($/hr)	$125.00
Labor Cost ($/hr)	$23.87

	BB Area	West Quarry	Total
Volume to Move (cu yd)	5,243	9,761	
Hourly Production (LCY)	350	350	
Total Hours per Scraper at 80% Efficiency	6.2	11.6	18
Total Scraper Labor Cost	$448	$838	$1,286
Total Scraper Operating Cost	$2,744	$5,133	$7,877
Total Scraper Costs	$3,192	$5,971	$9,163
Total Dozer Hours at 80% Efficiency	2.1	3.87	6
Total Dozer Labor Costs	$49	$92	$1[illegible]
Total Dozer Operating Costs	$259	$484	$
Total Dozer Costs	$308	$576	$8[illegible]
TOTALS	$3,500	$6,547	

TOPSOIL REAPPLICATION - LEVEL AREAS $10,047

CRICKET MOUNTAIN PROJECT
Road Reclamation Costs

TOPSOIL REAPPLICATION - SLOPES

Loader	CAT/988
Capacity (cu yd)	7
Average Speed (mph)	10
Load, Dump, Maneuver Time (min)	0.25
Buckets to Fill Truck	3
Loader Time/Truck Load	0.75
Operating Cost ($/hr)	$122.50
Labor Cost ($/hr)	$24.09

Truck	CAT/769C
Capacity (cu yd)	17
Average Speed (mph)	15
Maneuver Time (min)	0.55
Operating Cost ($/hr)	$85.00
Labor Cost ($/hr)	$23.87

	BB Area	West Quarry	Total
Number of Truck Loads	309	575	
Truck Cycle Time	3	3.3	
Optimum Number of Trucks	5	5	
Total Hours per Truck at 80% Eff.	3	5.1	8
Total Loader Hrs at 80% Effiency	3	5.1	8
Total Loader Labor Cost	$65	$123	$188
Total Loader Operating Cost	$331	$625	$956
Total Loader Cost	**$396**	**$748**	$1,
Total Truck Labor Cost	$322	$609	$931
Total Truck Operating Cost	$1,148	$2,168	$3,315
Total Truck Cost	**$1,470**	**$2,776**	$4,246
TOTALS	$1,866	$3,524	

TOPSOIL REAPPLICATION - SLOPES $5,389

CRICKET MOUNTAIN PROJECT
Road Reclamation Costs

SEED AND AMENDMENT COSTS

	BB Area	West Quarry	Total
Seed Mix - All Areas	*1*	*1*	
Amendments - All Areas	*1*	*1*	
Seed Costs - Level Areas	$488	$909	$1,397
Amendment Costs - Level Areas	$1,078	$2,006	$3,084
TOTALS	$1,566	$2,915	$4,[illegible]

LEVEL AREA SEED AND AMENDMENT	$4,481
SLOPE SEED AND AMENDMENT	
SEED AND AMENDMENT TOTAL	$4,481

RESEEDING AND MULCHING COSTS

	BB Area	West Quarry	Total
Seed Application Method	*Broad/Harrow*	*Broad/Harrow*	
Amendments Application	*Spreader*	*Spreader*	
Mulch Application Method			
Seed Application Costs	$305	$568	$[illegible]
Amendment Application Costs	$195	$363	$[illegible]
Mulch Application Costs			
TOTALS	$500	$931	$1,431

LEVEL AREA SEEDING/MULCHING COSTS	$1,431
SLOPE SEEDING/MULCHING COSTS	
SEEDING/MULCHING TOTAL	$1,431

CRICKET MOUNTAIN PROJECT
Road Reclamation Costs

Road #1 BB Area

Segment	Angle	Length
1	*5*	*3,158*
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
Road #1	5	3,158

Road #2 West Quarry

Segment	Angle	Length
1	*5*	*10,563*
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
Road #2	5	10,563

Road #3

Segment	Angle	Length
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
Road #3		

Road #4

Segment	Angle	Length
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
Road #4		

Road #5

Segment	Angle	Length
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
Road #5		

CRICKET MOUNTAIN PROJECT
Crusher Facility and Misc. Reclamation Costs

FACILITIES RECLAMATION SUMMARY

	WQ Soil #2	BB Soil Pile	WQ Soil #1	P Mtn. Crusher	BB Crusher	Total
LEVEL AREA TO BE RECLAIMED (acres)	2.4	3.9	2.8	12.0	3.7	24.8
SLOPE AREA TO BE RECLAIMED (acres)				5.0		5.0
SLOPE GRADING				$2,069		$2,069
LEVEL AREA GRADING	$298	$476	$342	$1,474	$447	$3,037
RIPPING SUBSOIL	$447	$729	$521	$2,248	$700	$4,645
EXCAVATION - SEDIMENT CONTROL						
BERM - SEDIMENT CONTROL						
TOPSOIL REAPPLICATION - LEVEL AREAS	$847	$2,822	$1,016	$7,845	$3,500	$16,029
TOPSOIL REAPPLICATION - SLOPES				$3,849		$3,849
TOPSOIL GRADING - LEVEL AREAS						
TOPSOIL GRADING - SLOPES						
SEED AND AMENDMENT COSTS	$578	$940	$675	$4,096	$891	$7,180
SEED & AMENDMENT APPLICATION COSTS	$185	$300	$215	$1,308	$285	$2,293
TOTALS	$2,354	$5,268	$2,769	$22,888	$5,822	$39,101

Total Acres to be Reclaimed 29.8

REGRADING AND RESEEDING	$39,101
LINER BURIAL	
LINER REMOVAL	
STRUCTURE REMOVAL	$85,481
FOUNDATION DEMOLITION	$3,600
TOTAL TRASH REMOVAL	$7,901
POST-CLOSURE MONITORING	$62,250
TOTAL FACILITES RECLAMATION	**$198,334**

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CRICKET MOUNTAIN PROJECT
Crusher Facility and Misc. Reclamation Costs

	Area #1	Area #2	Area #3	Area #4	Area #5	Area #6	Area #7	Area #8	Total
Area Description	*WQ Soil #2*	*BB Soil Pile*	*WQ Soil #1*	*P Mtn. Crusher*	*BB Crusher*				
Slope Height (feet)				*35*					
Level Area Surface Acreage	*2.4*	*3.9*	*2.8*	*12*	*3.7*				24.8
Final Level Area Acreage	*2.4*	*3.9*	*2.8*	*12*	*3.7*				24.8
Slope Length (feet)				*300*					
Existing Slope Angle (degrees)	*10*	*10*	*10*	*20*	*10*				
Existing Slope Distance (feet)				300					
Existing Slope Area (acres)				*5*					5.0
Final Slope Angle (degrees)	*10*	*10*	*10*	*10*	*10*				
Final Slope Distance (feet)				300					
Final Slope Area (acres)				5					5.0
Topsoil Depth - Tops (feet)	*0.5*	*1*	*0.5*	*0.5*	*1*				
Topsoil Depth - Slopes (feet)				*0.5*					
Slope Reappl. Method (Scraper/T&L)	*S*	*S*	*S*	*S*	*S*				
Topsoil Haul Distance (feet)	*600*	*600*	*600*	*1500*	*1000*				
Total Topsoil Required (cu yd)	1,936	6,292	2,259	13,713	5,969				30,169

Total Acres to be Reclaimed: 29.8

CRICKET MOUNTAIN PROJECT
Crusher Facility and Misc. Reclamation Costs

SLOPE GRADING

Dozer Type	CAT/D9N
Graded Width (feet)	15.3
Average Pass Length (feet)	300
Average Speed (mph)	1
Maneuver Time (min)	0.25
Correction Factor	0.75
Operating Cost ($/hr)	$125.00
Labor Cost ($/hr)	$23.87

	WQ Soil #2	BB Soil Pile	WQ Soil #1	P Mtn. Crusher	BB Crusher	Total
Volume to Move (cu yd)				4,975		4,975
Hourly Production (LCY/hr)				598.5		
Total Hours at 80% Efficiency				13.9		13.9
Total Labor Cost				$332		$332
Total Operating Cost				$1,738		$1,738
TOTALS				$2,069		

SLOPE GRADING	$2,069

CRICKET MOUNTAIN PROJECT
Crusher Facility and Misc. Reclamation Costs

LEVEL AREA GRADING

Equipment	CAT/D9N
Graded Width (feet)	15.3
Average Pass Length (feet)	300
Number of Passes	3
Average Speed (mph)	1
Maneuver Time (min)	0.25
Operating Cost ($/hr)	$125.00
Labor Cost ($/hr)	$23.87

	WQ Soil #2	BB Soil Pile	WQ Soil #1	P Mtn. Crusher	BB Crusher	Total
Average Pass Length (feet)	300	300	300	300	300	
Travel Distance (feet)	6,833	11,104	7,972	34,165	10,534	
Number of Passes	69	111	81	342	105	
Total Hours at 80% Efficiency	2	3.2	2.3	9.9	3	20
Total Labor Cost	$48	$76	$55	$236	$72	$487
Total Operating Cost	$250	$400	$288	$1,238	$375	$2,550
TOTALS	$298	$476	$342	$1,474	$447	

LEVEL GRADING $3,037

CRICKET MOUNTAIN PROJECT
Crusher Facility and Misc. Reclamation Costs

SUBSOIL RIPPING

Equipment	CAT/D9N
Ripper Width (feet)	8.8
Average Pass Length (feet)	300
Average Speed (mph)	1
Maneuver Time (min)	0.25
Operating Cost ($/hr)	$125.00
Labor Cost ($/hr)	$23.87

	WQ Soil #2	BB Soil Pile	WQ Soil #1	P Mtn. Crusher	BB Crusher	Total
Average Pass Length (feet)	300	300	300	300	300	
Travel Distance (feet)	11,880	19,305	13,860	59,400	18,315	
Number of Passes	40	64	46	198	61	
Total Hours at 80% Efficiency	3	4.9	3.5	15.1	4.7	31
Total Labor Cost	$72	$117	$84	$360	$112	$745
Total Operating Cost	$375	$613	$438	$1,888	$588	$3,900
TOTALS	$447	$729	$521	$2,248	$700	$4,645

RIPPING $4,645

CRICKET MOUNTAIN PROJECT
Crusher Facility and Misc. Reclamation Costs

TOPSOIL REAPPLICATION - LEVEL AREAS

Scraper	CAT/631E
Number of Scrapers	3
Capacity (cu yd)	31
Average Speed (mph)	25
Load, Dump, Maneuver Time (min)	0.25
Correction Factor	1
Operating Cost ($/hr)	$147.50
Labor Cost ($/hr)	$24.09

Dozer	CAT/D9N
Operating Cost ($/hr)	$125.00
Labor Cost ($/hr)	$23.87

	WQ Soil #2	BB Soil Pile	WQ Soil #1	P Mtn. Crusher	BB Crusher	Total
Volume to Move (cu yd)	1,936	6,292	2,259	9,680	5,969	26,136
Hourly Production (LCY)	525	525	525	290	400	
Total Hours per Scraper at 80% Efficiency	1.5	5	1.8	13.9	6.2	28
Total Scraper Labor Cost	$108	$361	$130	$1,005	$448	$2,052
Total Scraper Operating Cost	$664	$2,213	$797	$6,151	$2,744	$12,567
Total Scraper Costs	$772	$2,574	$927	$7,155	$3,192	$14,619
Total Dozer Hours at 80% Efficiency	0.5	1.7	0.6	4.6	2.1	9.5
Total Dozer Labor Costs	$12	$40	$14	$111	$49	$226
Total Dozer Operating Costs	$63	$209	$75	$579	$259	$1,184
Total Dozer Costs	$74	$249	$89	$689	$308	$1,410
TOTALS	$847	$2,822	$1,016	$7,845	$3,500	

TOPSOIL REAPPL - TOPS $16,029

CRICKET MOUNTAIN PROJECT
Crusher Facility and Misc. Reclamation Costs

TOPSOIL REAPPLICATION - SLOPES (Scraper)

Scraper	CAT/631E
Number of Scrapers	3
Capacity (cu yd)	31
Average Speed (mph)	25
Load, Dump, Maneuver Time (min)	0.25
Correction Factor	1
Operating Cost ($/hr)	$147.50
Labor Cost ($/hr)	$24.09

Dozer	CAT/D9N
Operating Cost ($/hr)	$125.00
Labor Cost ($/hr)	$23.87

	WQ Soil #2	BB Soil Pile	WQ Soil #1	P Mtn. Crusher	BB Crusher	Total
Volume to Move (cu yd)				4,033		4,033
Hourly Production (LCY)				290		
Total Hours per Scraper at 80% Efficiency				5.8		5.8
Total Scraper Labor Cost				$419		$419
Total Scraper Operating Cost				$2,567		$2,567
Total Scraper Costs				$2,986		$2,986
Total Dozer Hours at 80% Efficiency				5.8		5.8
Total Dozer Labor Costs				$138		$138
Total Dozer Operating Costs				$725		$725
Total Dozer Costs				$863		$863
TOTALS				$3,849		

TOPSOIL REAPPL - SLOPES	$3,849

CRICKET MOUNTAIN PROJECT
Crusher Facility and Misc. Reclamation Costs

SEED AND AMENDMENT COSTS

	WQ Soil #2	BB Soil Pile	WQ Soil #1	P Mtn. Crusher	BB Crusher	Total
Seed Mix - Tops	*1*	*1*	*1*	*1*	*1*	
Amendments & Mulch - Tops	*1*	*1*	*1*	*1*	*1*	
Seed Mix - Slopes				*1*		
Amendments & Mulch - Slopes				*1*		
Seed Costs - Tops	$180	$293	$210	$902	$278	$1,863
Amendment Costs - Tops	$398	$647	$464	$1,990	$613	$4,112
Seed Costs - Slopes				$376		$376
Amendment Costs - Slopes				$829		$829
TOTALS	$578	$940	$675	$4,096	$891	

TOP SEED AND AMENDMENT	$5,975
SLOPE SEED AND AMENDMENT	$1,205
SEED AND AMENDMENT TOTAL	$7,180

SEEDING AND AMENDMENT APPLICATION COSTS

	WQ Soil #2	BB Soil Pile	WQ Soil #1	P Mtn. Crusher	BB Crusher	Total
Seed Application Method - Tops	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	
Amendments Application - Tops	*Spreader*	*Spreader*	*Spreader*	*Spreader*	*Spreader*	
Mulch Application Method - Tops						
Seed Application Method - Slopes				*Broad/Harrow*		
Amendments Application - Slopes				*Spreader*		
Mulch Application Method - Slopes						
Seed Application Costs - Tops	$113	$183	$131	$563	$174	$1,164
Amendment Application Costs - Tops	$72	$117	$84	$360	$111	$744
Mulch Application Costs - Tops						
Seed Application Costs - Slopes				$235		$235
Amendment Application Costs - Slopes				$150		$150
Mulch Application Costs - Slopes						
TOTALS	$185	$300	$215	$1,308	$285	

TOP SEEDING/AMEND APPL. COST	$1,908
SLOPE SEEDING/AMEND APPL. COST	$385
SEEDING/AMEND APPL. TOTAL	$2,293

CRICKET MOUNTAIN PROJECT
Crusher Facility and Misc. Reclamation Costs

STRUCTURE DEMOLITION AND DISPOSAL

FACILITY	LENGTH	WIDTH	HEIGHT	VOLUME (FT^3)	UNIT COST	COST	SOURCE
PROCESS FACILITES[1]	40	20	30	24,000	0.21	$67,838	Means, 1997 - 020-604-0012 - Cost/Ft^3
OFFICE BUILDING							
EQUIPMENT							
TRAILERS							
PIPELINES							
POWERLINES							
TELEPHONE LINES							
FUEL STORAGE							
CONVEYORS[1]	700				12.89	$9,023	Colo. MLRB/Means (1986) escalated to 1997
OTHER							
PORTABLE BUILDING REMOVAL[2]	**NUMBER**				**COST/BLDG**		
OFFICE BUILDING	1				$8,500	$8,500	Means, 1997 - 021-204-0020
EXPLOSIVES MAGAZINES							
	LOAD (YD^3)	**PERCENT VOL**	**COST/TRIP**		**TRIPS**		
LANDFILL COSTS	20	10%	24	24,000	5	$120	Millard Co. Landfill
SUBTOTAL						$85,481	

TOTAL COST **$85,481**

CONCRETE DEMOLITION COSTS[3]

FACILITY	WALL HEIGHT	THICKNESS	LENGTH	AREA (Ft^2)	VOLUME (Ft^3)	UNIT COST	COST	SOURCE
PROCESS FACILITES	3.0	1.0	80.0	240.0	240.0	$14.90	$3,576	Means, 1997 -020-754-2500
OFFICE BUILDING								
LAB								
CHANGE HOUSE								
PIPELINES/PUMPS								
POWER								
WAREHOUSE								
FUEL STORAGE								
OTHER STRUCTURES								
OTHER	**LOAD (YD^3)**	**PERCENT VOL**	**DUMP COST**			**TRIPS**		
LANDFILL COSTS	20	10%	24		240	1	$24	Millard Co. Landfill
SUBTOTAL							$3,600	

TOTAL COST **$3,600**

Notes: [1] Assumes 1 crusher/screening facility each at Poision Mountain and BB Dolomite areas
[2] Includes resetting on new foundation
[3] Includes costs for demolition and removal of above-grade walls

CRICKET MOUNTAIN PROJECT
Crusher Facility and Misc. Reclamation Costs

TRASH REMOVAL AND DISPOSAL

Labor Hours/Acre Trash Removal	*0.50*

FACILITY	ACRES[1]	(YD^3)/ACRE	VOL (YD^3)	HAUL DIST	COST/MI	DUMP COST	COST[2]	SOURCE
PROCESS FACILITES	*21*	*1*	20.7	*30*	*$0.48*		$437.39	*Means, 1997 -020-620-5100*
WASTE ROCK DUMPS	*180*	*1*	180.3	*30*	*$0.48*		$3,809.74	*Means, 1997 -020-620-5100*
ROADS	*25*	*1*	25.2	*30*	*$0.48*		$532.48	*Means, 1997 -020-620-5100*
PITS	*118*	*1*	118.2	*30*	*$0.48*		$2,497.57	*Means, 1997 -020-620-5100*
HEAPS								
TAILINGS IMPOUNDMENTS								
MISC	*9*	*1*	9.1	*30*	*$0.48*		$192.28	*Means, 1997 -020-620-5100*
DUMP CHARGES			353.5			*$24.00*	$432.00	*Millard Co. Landfill*
	354						$7,901.46	

TOTAL COST **$7,901.46**

Notes: [1] Based on surface acres, not footprint acres
[2] Cost = (acres x volume of trash x cost/vol/mile) + (acres x labor hours/acre)

POSTCLOSURE MONITORING

Consultant Rates ($/hr)	*$80*
Sample Analysis Rate ($/sample)	*$175*
Length of Monitoring (mo.)	*60*
Samples/Quarter	*4*
Number of Samples	60
Total Consulting Hours	600
Travel Expenses	$3,750
Consulting Fees	$51,750
Analytical Fees	$10,500
TOTAL COST	**$62,250**

CRICKET MOUNTAIN PROJECT
Pit Area Reclamation Costs

PIT RECLAMATION SUMMARY

	Flat Iron	North Lobe	BB Dolomite	Total
SLOPE GRADING				
LEVEL AREA GRADING	$7,146	$3,811	$5,865	$16,822
RIPPING SUBSOIL	$11,403	$6,059	$9,349	$26,811
EXCAVATION - SEDIMENT CONTROL				
PIT SAFETY BERM CONSTRUCTION				
BOULDER PLACEMENT COSTS	$1,891	$2,888		$4,779
FENCE INSTALLATION				
TOPSOIL REAPPLICATION - LEVEL AREAS				
TOPSOIL REAPPLICATION - SLOPES	$73,355	$39,093	$31,839	$144,287
TOPSOIL GRADING - LEVEL AREAS				
TOPSOIL GRADING - SLOPES				
SEED AND AMENDMENT COSTS	$12,914	$6,866	$10,577	$30,357
SEED & AMENDMENT APPLICATION COSTS	$4,123	$2,193	$3,377	$9,693
TOTALS	$110,832	$60,910	$61,007	$232,750

TOTAL PIT RECLAMATION **$232,750**

CRICKET MOUNTAIN PROJECT
Pit Area Reclamation Costs

	Area #1	Area #2	Area #3	Area #4	Area #5	Area #6	Area #7	Area #8	Total
Area Description	*Flat Iron*	*North Lobe*	*BB Dolomite*						
Slope Height (feet)									
Level Area Surface Acreage	*53.6*	*28.5*	*43.9*						126.0
Final Level Area Acreage	*53.6*	*28.5*	*43.9*						126.0
Slope Length (feet)									
Existing Slope Angle (degrees)	*60*	*60*	*60*						
Existing Slope Distance (feet)									
Existing Slope Area (acres)	*9.5*	*5*	*7.7*						22.2
Final Slope Angle (degrees)	*60*	*60*	*60*						
Final Slope Distance (feet)									
Final Slope Area (acres)	9.5	5	7.7						22.2
Topsoil Depth - Tops (feet)	*0.5*	*0.5*	*0.5*						
Topsoil Depth - Slopes (feet)									
Reappl. Method (Scraper/T&L)	*T*	*T*	*T*						
Topsoil Haul Distance (feet)	*9000*	*9000*	*4400*						
Total Topsoil Required (cu yd)	43,237	22,990	35,413						101,640

Total Acres to be Reclaimed: 148.2

CRICKET MOUNTAIN PROJECT
Pit Area Reclamation Costs

LEVEL AREA GRADING OR COVER SPREADING

Equipment	CAT/D9N
Graded Width (feet)	15.3
Average Pass Length (feet)	100
Number of Passes	3
Average Speed (mph)	1
Maneuver Time (min)	0.25
Operating Cost ($/hr)	$125.00
Labor Cost ($/hr)	$23.87

	Flat Iron	North Lobe	BB Dolomite	Total
Average Pass Length (feet)	*200*	*200*	*200*	
Travel Distance (feet)	152,602	81,141	124,986	
Number of Passes	2289	1218	1875	
Total Hours at 80% Efficiency	48	25.6	39.4	113
Total Labor Cost	$1,146	$611	$940	$2,697
Total Operating Cost	$6,000	$3,200	$4,925	$14,125
TOTALS	$7,146	$3,811	$5,865	
LEVEL GRADING	$16,822			

CRICKET MOUNTAIN PROJECT
Pit Area Reclamation Costs

SUBSOIL RIPPING

Equipment	CAT/D9N
Ripper Width (feet)	8.8
Average Pass Length (feet)	100
Average Speed (mph)	1
Maneuver Time (min)	0.25
Operating Cost ($/hr)	$125.00
Labor Cost ($/hr)	$23.87

	Flat Iron	North Lobe	BB Dolomite	Total
Average Pass Length (feet)	100	100	100	
Travel Distance (feet)	265,320	141,075	217,305	
Number of Passes	2653	1411	2173	
Total Hours at 80% Efficiency	76.6	40.7	62.8	180
Total Labor Cost	$1,828	$972	$1,499	$4,299
Total Operating Cost	$9,575	$5,088	$7,850	$22,513
TOTALS	$11,403	$6,059	$9,349	$26,811

RIPPING $26,811

CRICKET MOUNTAIN PROJECT
Pit Area Reclamation Costs

TOPSOIL REAPPLICATION - (Truck and Loader)

Loader	CAT/988
Capacity (cu yd)	7
Average Speed (mph)	10
Load, Dump, Maneuver Time (min)	0.25
Buckets to Fill Truck	2
Loader Time/Truck Load	0.5
Correction Factor	0.75
Operating Cost ($/hr)	$122.50
Labor Cost ($/hr)	$24.09

Truck	CAT/769C
Capacity (cu yd)	17
Average Speed (mph)	15
Correction Factor	0.75
Maneuver Time (min)	0.55
Operating Cost ($/hr)	$85.00
Labor Cost ($/hr)	$23.87
	53.6

	Flat Iron	North Lobe	BB Dolomite	Total
Number of Truck Loads	2543	1352	2083	
Truck Cycle Time (min)	19.2	19.2	9.9	
Optimum Number of Trucks	39	39	20	
Total Hours per Truck at 80% Eff.	16.7	8.9	13.7	39
Total Loader Hrs at 80% Effiency	16.7	8.9	13.7	39
Total Loader Labor Cost	$402	$214	$330	$947
Total Loader Operating Cost	$2,046	$1,090	$1,678	$4,814
Total Loader Cost	**$2,448**	**$1,305**	**$2,008**	$5,761
Total Truck Labor Cost	$15,547	$8,285	$6,540	$30,372
Total Truck Operating Cost	$55,361	$29,504	$23,290	$108,154
Total Truck Cost	**$70,907**	**$37,789**	**$29,830**	$138,526
TOTALS	$73,355	$39,093	$31,839	

TOPSOIL REAPPLICATION (Truck/Loader) $144,287

CRICKET MOUNTAIN PROJECT
Pit Area Reclamation Costs

SEED AND AMENDMENT COSTS

	Flat Iron	North Lobe	BB Dolomite	Total
Seed Mix - Tops	*1*	*1*	*1*	
Amendments & Mulch - Tops	*1*	*1*	*1*	
Seed Mix - Slopes				
Amendments & Mulch - Slopes				
Seed Costs - Tops	$4,027	$2,141	$3,298	$9,466
Amendment Costs - Tops	$8,887	$4,725	$7,279	$20,891
Seed Costs - Slopes				
Amendment Costs - Slopes				
TOTALS	$12,914	$6,866	$10,577	

TOP SEED AND AMENDMENT	$30,357
SLOPE SEED AND AMENDMENT	
SEED AND AMENDMENT TOTAL	$30,357

SEEDING AND AMENDMENT APPLICATION COSTS

	Flat Iron	North Lobe	BB Dolomite	Total
Seed Application Method - Tops	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	
Amendments Application - Tops	*Spreader*	*Spreader*	*Spreader*	
Mulch Application Method - Tops				
Seed Application Method - Slopes				
Amendments Application - Slopes				
Mulch Application Method - Slopes				
Seed Application Costs - Tops	$2,515	$1,338	$2,060	$5,913
Amendment Application Costs - Tops	$1,608	$855	$1,317	$3,780
Mulch Application Costs - Tops				
Seed Application Costs - Slopes				
Amendment Application Costs - Slopes				
Mulch Application Costs - Slopes				
TOTALS	$4,123	$2,193	$3,377	

TOP SEEDING/AMEND APPL. COST	$9,693
SLOPE SEEDING/AMEND APPL. COST	
SEEDING/AMEND APPL. TOTAL	$9,693

CRICKET MOUNTAIN PROJECT
Pit Area Reclamation Costs

PIT SAFETY BOULDER PLACEMENT

Loader	CAT/988
Capacity (cu yd)	7
Average Speed (mph)	10
Load, Dump, Maneuver Time (min)	0.25
Correction Factor	0.75
Operating Cost ($/hr)	$122.50
Labor Cost ($/hr)	$24.09

	Flat Iron	North Lobe	BB Dolomite	Total
Description	*Flat Iron*	*North Lobe*		
Size of Boulder (diameter in ft)	*4*	*4*		
Boulder Density (ft^3/ton)	*13*	*13*		
Boulder Spacing (ft)	*6*	*6*		
Pit Permiter Length (ft)	*2,600*	*3,600*		6,200
Haul Distance (ft)	*250*	*300*		
Boulders to Move	433	600		1,033
Hourly Production (# of boulders)	42.1	38		
Total Hours at 80% Efficiency	12.9	19.7		32.6
Total Labor Cost	$311	$475		$785
Total Operating Cost	$1,580	$2,413		$3,994
TOTALS	$1,891	$2,888		

PIT SAFETY BOULDER PLACEMENT TOTAL $4,779