

International Uranium (USA) Corporation

Cost Estimates for Reclamation

of the

White Mesa Mill and Tailings Management System

Blanding, Utah

February 2004

Source Materials License No. SUA – 1358
Docket No. 40-8681

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WHITE MESA MILL RECLAMATION COST ESTIMATE
February 2004

Mill Decommissioning		\$1,599,054
Cell 1		\$1,333,377
Cell 2		\$1,161,790
Cell 3		\$1,630,429
Cell 4A		\$81,913
Miscellaneous		\$2,018,304
Subtotal Direct Costs		<u>\$7,824,867</u>
Profit Allowance	10.00%	\$782,487
Contingency	15.00%	\$1,173,730
Licensing & Bonding	2.00%	\$156,497
Long Term Care Fund		\$681,315
Total Reclamation		<u>\$10,618,895</u>
Revised Bond Amount		<u><u>\$10,618,895</u></u>

Summary of Changes for February 2004 Reclamation Cost Update

Unit Cost Factors

- Update Equipment rental, mobilization, and maintenance costs, **North Central Rental and Leasing LLC, a subsidiary of Butler Machinery Company**, February 24, 2004
Revised equipment specification by replacing a Cat 375L Trackhoe with a Cat 365BL, based on current availability. No change on production rates for Mill demolition and excavation work.
- Update Labor costs, **"Utah General Decision No. 020030009, January 23, 2004"**
- Update fuel cost, #2 Red Diesel, utilizing 36 month rolling average method agreed to in letter from IUC to U.S. Nuclear Regulatory Commission, August 5, 2002
- Update Screen Plant rental costs, **Power Motive Corporation**, Denver, Colorado, February 27, 2004
- Escalate Drill and Blast cost estimate, **Franklin Drilling & Blasting, Inc.**, Durango, Colorado, March 3, 2003, by \$0.11 per cubic yard.
- Update Trackhoe and Metal Shear rental costs, **World Wide Rental Services**, Salt Lake City, Utah, February 26, 2004
- Update Crane rental costs, **Crane Services, Inc.**, Albuquerque, New Mexico, December 12, 2003
- Update Highway Truck rental costs, **Cosby Trucking, Inc.**, Blanding, Utah, February 23, 2004
- Escalate **Long Term Care Fund** by December 2003 CPI-U factor (184.5)

Plan Modifications

- Reduction of cost for Cell 4A reclamation due to ongoing work to remove crystals and liner material in preparation for re-lining Cell
- Increase in amount of Alternate Feed material stored on the Ore Pad and potentially subject to expense of direct haulage to tailings cell.
- Increase in number of Cameco Alternate Feed barrels stored on site that are potentially subject to expense of direct haulage to tailings cell.
- Revision to Cell 3 Platform Fill volume due to additional cover material placed during past year.

MILL DECOMMISSIONING

MILL DECOMMISSIONING

Mill Building Demolition

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Equipment Operators	hrs	\$17.72	720	\$12,757
Mechanics	hrs	\$14.40	640	\$9,219
Laborers	hrs	\$10.35	320	\$3,311
Small Tools	hrs	\$1.25	960	\$1,200
Cat 769 Haul Truck	hrs	\$68.68	640	\$43,957
Truck Drivers	hrs	\$12.74	640	\$8,154
Cat 988 Loader	hrs	\$104.64	160	\$16,743
Cat 365 Excavator	hrs	\$98.33	160	\$15,733
Cat 330 w/ PC-400 metalShears	hrs	\$118.88	160	\$19,020
65 Ton Crane	hrs	\$60.19	160	\$9,630
30 Ton Crane	hrs	\$38.35	80	\$3,068
Equipment Maintenance (Butler)	hrs	\$13.07	1,360	\$17,772
Concrete Removal	sf	\$3.30	37,500	\$123,750

Total Mill Building Demolition

\$284,313

Ore Feed Demolition

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Equipment Operators	hrs	\$17.72	48	\$850
Mechanics	hrs	\$14.40	64	\$922
Laborers	hrs	\$10.35	32	\$331
Small Tools	hrs	\$1.25	96	\$120
Cat 769 Haul Truck	hrs	\$68.68	64	\$4,396
Truck Drivers	hrs	\$12.74	64	\$815
Cat 988 Loader	hrs	\$104.64	16	\$1,674
Cat 365 Excavator	hrs	\$98.33	16	\$1,573
Cat 330 w/ PC-400 metalShears	hrs	\$118.88	16	\$1,902
30 Ton Crane	hrs	\$38.35		\$0
Equipment Maintenance (Butler)	hrs	\$13.07	112	\$1,464

Total Ore Feed Demolition

\$14,048

SX Building Demolition

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Equipment Operators	hrs	\$17.72	240	\$4,252
Mechanics	hrs	\$14.40	320	\$4,609
Laborers	hrs	\$10.35	160	\$1,655
Small Tools	hrs	\$1.25	480	\$600
Cat 769 Haul Truck	hrs	\$68.68	320	\$21,978
Truck Drivers	hrs	\$12.74	320	\$4,077
Cat 988 Loader	hrs	\$104.64	80	\$8,371
Cat 365 Excavator	hrs	\$98.33	80	\$7,867
Cat 330 w/ PC-400 metalShears	hrs	\$118.88	80	\$9,510
65 Ton Crane	hrs	\$60.19		\$0
30 Ton Crane	hrs	\$38.35		\$0
Equipment Maintenance (Butler)	hrs	\$13.07	560	\$7,318
Concrete Removal	sf	\$3.30	55,970	\$184,701

Total SX Building Demolition

\$254,939

MILL DECOMMISSIONING

CCD Circuit Removal

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Equipment Operators	hrs	\$17.72	135	\$2,392
Mechanics	hrs	\$14.40	120	\$1,728
Laborers	hrs	\$10.35	60	\$621
Small Tools	hrs	\$1.25	180	\$225
Cat 769 Haul Truck	hrs	\$68.68	120	\$8,242
Truck Drivers	hrs	\$12.74	120	\$1,529
Cat 988 Loader	hrs	\$104.64	30	\$3,139
Cat 365 Excavator	hrs	\$98.33	30	\$2,950
Cat 330 w/ PC-400 metalShears	hrs	\$118.88	30	\$3,566
65 Ton Crane	hrs	\$60.19	30	\$1,806
30 Ton Crane	hrs	\$38.35	15	\$575
Equipment Maintenance (Butler)	hrs	\$13.07	255	\$3,332
Concrete Removal	sf	\$3.30	15,000	\$49,500

Total CCD Circuit Removal

\$79,605

Sample Plant Removal

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Equipment Operators	hrs	\$17.72	24	\$425
Mechanics	hrs	\$14.40	32	\$461
Laborers	hrs	\$10.35	16	\$166
Small Tools	hrs	\$1.25	48	\$60
Cat 769 Haul Truck	hrs	\$68.68	32	\$2,198
Truck Drivers	hrs	\$12.74	32	\$408
Cat 988 Loader	hrs	\$104.64	8	\$837
Cat 365 Excavator	hrs	\$98.33	8	\$787
Cat 330 w/ PC-400 metalShears	hrs	\$118.88	8	\$951
30 Ton Crane	hrs	\$38.35		\$0
Equipment Maintenance (Butler)	hrs	\$13.07	56	\$732
Concrete Removal	sf	\$3.30	4,200	\$13,860

Total Sample Plant Removal

\$20,884

Boiler Demolition

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Equipment Operators	hrs	\$17.72	120	\$2,126
Mechanics	hrs	\$14.40	160	\$2,305
Laborers	hrs	\$10.35	80	\$828
Small Tools	hrs	\$1.25	240	\$300
Cat 769 Haul Truck	hrs	\$68.68	160	\$10,989
Truck Drivers	hrs	\$12.74	160	\$2,038
Cat 988 Loader	hrs	\$104.64	40	\$4,186
Cat 365 Excavator	hrs	\$98.33	40	\$3,933
Cat 330 w/ PC-400 metalShears	hrs	\$118.88	40	\$4,755
65 Ton Crane	hrs	\$60.19		\$0
30 Ton Crane	hrs	\$38.35		\$0
Equipment Maintenance (Butler)	hrs	\$13.07	280	\$3,659
Concrete Removal	sf	\$3.30	2,900	\$9,570

Total Boiler Demolition

\$44,689

MILL DECOMMISSIONING

Vanadium Oxidation Circuit Removal

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Equipment Operators	hrs	\$17.72	48	\$850
Mechanics	hrs	\$14.40	64	\$922
Laborers	hrs	\$10.35	32	\$331
Small Tools	hrs	\$1.25	96	\$120
Cat 769 Haul Truck	hrs	\$68.68	64	\$4,396
Truck Drivers	hrs	\$12.74	64	\$815
Cat 988 Loader	hrs	\$104.64	16	\$1,674
Cat 365 Excavator	hrs	\$98.33	16	\$1,573
Cat 330 w/ PC-400 metalShears	hrs	\$118.88	16	\$1,902
65 Ton Crane	hrs	\$60.19		\$0
30 Ton Crane	hrs	\$38.35		\$0
Equipment Maintenance (Butler)	hrs	\$13.07	112	\$1,464
Concrete Removal	sf	\$3.30	1,200	\$3,960

Total Vanadium Oxidation Circuit Removal

\$18,008

Main Shop/Warehouse Demolition

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Equipment Operators	hrs	\$17.72	96	\$1,701
Mechanics	hrs	\$14.40	128	\$1,844
Laborers	hrs	\$10.35	64	\$662
Small Tools	hrs	\$1.25	192	\$240
Cat 769 Haul Truck	hrs	\$68.68	128	\$8,791
Truck Drivers	hrs	\$12.74	128	\$1,631
Cat 988 Loader	hrs	\$104.64	32	\$3,349
Cat 365 Excavator	hrs	\$98.33	32	\$3,147
Cat 330 w/ PC-400 metalShears	hrs	\$118.88	32	\$3,804
Equipment Maintenance (Butler)	hrs	\$13.07	224	\$2,927
Concrete Removal	sf	\$3.30	19,300	\$63,690

Total Main Shop/Warehouse Demolition

\$91,785

Office Building Demolition

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Equipment Operators	hrs	\$17.72	72	\$1,276
Mechanics	hrs	\$14.40	96	\$1,383
Laborers	hrs	\$10.35	48	\$497
Small Tools	hrs	\$1.25	144	\$180
Cat 769 Haul Truck	hrs	\$68.68	96	\$6,593
Truck Drivers	hrs	\$12.74	96	\$1,223
Cat 988 Loader	hrs	\$104.64	24	\$2,511
Cat 365 Excavator	hrs	\$98.33	24	\$2,360
Cat 330 w/ PC-400 metalShears	hrs	\$118.88	24	\$2,853
Equipment Maintenance (Butler)	hrs	\$13.07	168	\$2,195
Concrete Removal	sf	\$1.25	12,100	\$15,125

Total Office Building Demolition

\$36,196

MILL DECOMMISSIONING

Misc. Tankage & Spare Parts Removal

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Equipment Operators	hrs	\$17.72	24	\$425
Mechanics	hrs	\$14.40	32	\$461
Laborers	hrs	\$10.35	16	\$166
Small Tools	hrs	\$1.25	48	\$60
Cat 769 Haul Truck	hrs	\$68.68	32	\$2,198
Truck Drivers	hrs	\$12.74	32	\$408
Cat 988 Loader	hrs	\$104.64	8	\$837
Cat 365 Excavator	hrs	\$98.33	8	\$787
Cat 330 w/ PC-400 metalShears	hrs	\$118.88	8	\$951
Equipment Maintenance (Butler)	hrs	\$13.07	56	\$732
Concrete Removal	sf	\$1.25		\$0

Total Misc. Tankage & Spare Parts Removal

\$7,024

Mill Yard Decontamination

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Equipment Operators	hrs	\$17.72	582	\$10,312
Cat 637 Scraper	hrs	\$153.11	257	\$39,348
Cat 988 Loader	hrs	\$104.64	65	\$6,802
Cat D8N Dozer With Ripper	hrs	\$73.76	65	\$4,794
Cat D7 Dozer	hrs	\$62.38	65	\$4,055
Cat 651 Waterwagon	hrs	\$77.13	65	\$5,013
Cat 14G Motorgrader	hrs	\$50.74	65	\$3,298
Equipment Maintenance (Butler)	hrs	\$13.07	582	\$7,605

Total Mill Yard Decontamination

\$81,227

Ore Storage Pad Decontamination

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Equipment Operators	hrs	\$17.72	429	\$7,601
Cat 637 Scraper	hrs	\$153.11	189	\$28,937
Cat 988 Loader	hrs	\$104.64	48	\$5,023
Cat D8N Dozer With Ripper	hrs	\$73.76	48	\$3,540
Cat D7 Dozer	hrs	\$62.38	48	\$2,994
Cat 651 Waterwagon	hrs	\$77.13	48	\$3,702
Cat 14G Motorgrader	hrs	\$50.74	48	\$2,435
Equipment Maintenance (Butler)	hrs	\$13.07	429	\$5,606

Total Ore Storage Pad Decontamination

\$59,839

Equipment Storage Area Cleanup

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Equipment Operators	hrs	\$17.72	154	\$2,729
Cat 637 Scraper	hrs	\$153.11	69	\$10,564
Cat 988 Loader	hrs	\$104.64	17	\$1,779
Cat D8N Dozer With Ripper	hrs	\$73.76	17	\$1,254
Cat D7 Dozer	hrs	\$62.38	17	\$1,060
Cat 651 Waterwagon	hrs	\$77.13	17	\$1,311
Cat 14G Motorgrader	hrs	\$50.74	17	\$863
Equipment Maintenance (Butler)	hrs	\$13.07	154	\$2,012

Total Equipment Storage Area Cleanup

\$21,572

MILL DECOMMISSIONING

Revegetate Mill Yard & Ore Pad

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Equipment Operators	hrs	\$17.72	231	\$4,093
Cat 637 Scraper	hrs	\$153.11	132	\$20,210
Cat 988 Loader	hrs	\$104.64	0	\$0
Cat D8N Dozer With Ripper	hrs	\$73.76	33	\$2,434
Cat D7 Dozer	hrs	\$62.38	33	\$2,059
Cat 651 Waterwagon	hrs	\$77.13		\$0
Cat 14G Motorgrader	hrs	\$50.74	33	\$1,674
Equipment Maintenance (Butler)	hrs	\$13.07	231	\$3,019

Total Revegetate Mill Yard & Ore Pad

\$33,488

Total Demolition and Decontamination

\$1,047,618

CLEANUP OF WINDBLOWN CONTAMINATION

Scoping Survey

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Soil Samples	each	\$50.00	100	\$5,000
Survey Crew	hrs	\$13.86	752	\$10,425
Sample Crew	hrs	\$13.86	1,312	\$18,188

Total Scoping Survey

\$33,613

Characterization Survey

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Soil Samples	each	\$50.00	472	\$23,600
Sample Crew	hrs	\$13.86	1,136	\$15,749

Total Characterization Survey

\$39,349

Final Status Survey

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Soil Samples	each	\$50.00	300	\$15,000
Sample Crew	hrs	\$13.86	3,552	\$49,242

Total Final Status Survey

\$64,242

Windblown Cleanup

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Equipment Operators	hrs	\$17.72	1,190	\$21,084
Cat 637 Scraper	hrs	\$153.11	680	\$104,112
Cat D8N Dozer With Ripper	hrs	\$73.76	170	\$12,539
Cat D7 Dozer	hrs	\$62.38	170	\$10,605
Cat 14H Motorgrader	hrs	\$50.74	170	\$8,625
Soil Samples	each	\$50.00	500	\$25,000
Survey Crew	hrs	\$13.86	163	\$2,260
Sample Crew	hrs	\$13.86	83	\$1,151
Equipment Maintenance (Butler)	hrs	\$13.07	1,190	\$15,550

Total Windblown Cleanup

\$200,926

Quality Control

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Quality Control Contractor	hrs	\$62.00	2,080	\$128,960

Total Quality Control

\$128,960

Total Cleanup Windblown Contamination

\$467,090

MILL DECOMMISSIONING

Alternate Feed Disposal

Linde, Ashland & Heritage Material

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Equipment Operators	hrs	\$17.72	382	\$6,762
Cat 769 Haul Truck (3)	hrs	\$68.68	199	\$13,666
Cat 988 Loader	hrs	\$104.64	66	\$6,941
Cat 651 Waterwagon	hrs	\$77.13	66	\$5,116
Cat 14G Motorgrader	hrs	\$50.74	50	\$2,537
Equipment Maintenance (Butler)	hrs	\$13.07	382	\$4,987

Total Linde, Ashland & Heritage Material

\$40,008

Total Quantity 39,000 Cubic Yards (as of 02/20/04)
 196 Cubic Yards per Truck per hour
 199 Truck Hours

Cameco Barrels

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Equipment Operators	hrs	\$12.74	427	\$5,445
Flat Bed Trailer and Tractor*	hrs	\$55.00	427	\$23,507
Fork Lift (2)	hrs	\$18.00	855	\$15,386

Total Cameco Barrels

\$44,339

* includes operator

42,740 Barrels (as of 02/20/04)
 40 Barrels per load
 0.4 Hours per load
 427 Truck Hours

Sub-Total Alternate Feed Disposal

\$84,347

TOTAL MILL DECOMMISSIONING

\$1,599,054

INTERNATIONAL URANIUM (USA) CORP.
COST ESTIMATE

IE/PROJECT..... Date..... Cost by..... Sheet..... of.....

MILL DECOMMISSIONING

1) REMOVAL OF CONTAMINATED MATERIALS FROM MILL YARD.

ASSUME:

- 18" (1.5 feet) WILL HAVE TO BE REMOVED
- AREA (FROM CAD) = 1,643,453 ft²
- 37.8 ACRES

Therefore Volume Moved = $[1,643,453 \times 1.5] \div 27 = 91,302 \text{ yd}^3$

$\frac{91,300 \text{ yd}^3}{355 \text{ yd}^3/\text{hr}} = 257 \text{ hours}$

say $91,300 \text{ yd}^3$

Haul Route # 2

2) REMOVAL OF CONTAMINATED MATERIALS FROM ORE PITS

ASSUME:

- 18" WILL HAVE TO BE REMOVED
- AREA (FROM CAD) = 976,780 ft²
- 22.4 ACRES

Therefore Volume Moved = $[976,780 \times 1.5] \div 27 = 54,265 \text{ yd}^3$

say $54,300 \text{ yd}^3$

$\frac{54,300 \text{ yd}^3}{287 \text{ yd}^3/\text{hr}} = 189 \text{ hours}$

Haul Route # 3

INTERNATIONAL URANIUM (USA) CORP.
COST ESTIMATE

RE/PROJECT Date Calc by Sheet of

MILL DECOMMISSIONING

3) DEMOLITION EQUIPMENT

- KAMATSU PC400 (OR CAT EQUIVALENT) WITH La Banty Shears (hydraulic)
- CAT 275L BACK HOE W/ GRAPPLES.
- 769C ROCK TRUCKS (4ea)
- 988 LOADER (1ea)

4) DEMOLITION CREW.

- HEAVY EQUIPMENT OPERATORS - PC400, 275, 988
- DUST CONTROL - 2 - LABORERS
- MECHANICS - CUTTING UP OF DEBRIS TO REPAIR VOIDS 4
- TRUCK DRIVERS - 4 ea - 769D TRUCKS

5) TOOL & EXPENDABLE ALLOWANCE, COVERING THE FOLLOWING:

- SAFETY GEAR
- HAND TOOLS
- BOTTLED. GASOLINE & TROCHES.
- ALLOW 1.25 / MAN HOUR FOR ALL BUT H.E. OPERATORS + TRUCK DRIVERS

INTERNATIONAL URANIUM (USA) CORP.
COST ESTIMATE

PROJECT..... DATE..... CEC BY..... SHEET..... OF.....

MILL DECOMMISSIONING

6) DEMOLITION TIME ESTIMATES. (SHEAR & GRABBER)

• MILL BUILDING	20 days
• COARSE CR	2 days
• SX BUILDING	10 days
• CCD, FLT, CLARKAVE	5 days
• SAMPLE PLANT	1 day
• BOILER	5 days
• Vanadium Oxidation	2 days
• SHOP / WAREHOUSE	4 days
• OFFICE BUILDING	3 days
• MISC TANKAGE & "NORTH FORT"	4 days

7) FOUNDATION DEMOLITION

- ASSUME THAT MEANS 020-750-0440 OVER ENTIRE AREA OF STRUCTURE WILL SURFACE @ \$3.33/sq ft
- AREAS ARE AS FOLLOWS. (FROM CAD)

	<u>Area, sq ft</u>	<u>Est \$</u>
MILL BUILDING	37,500	120,000
SX BUILDING	55,970	179,100
SHOP / WAREHOUSE	19,280	61,700
OFFICE	12,100	39,700 15,125
SAMPLE PLANT	4,200	13,400
DIESEL SHOP	2050	6,600
BOILER	2900	9,300

- LABOR \$2.75, EQUIP \$.55

INTERNATIONAL URANIUM (USA) CORP.
COST ESTIMATE

PROJECT..... Date..... Calc by..... Sheet... of.....

MILL DECOMMISSIONING

B) REVEGETATION

ASSUME ---

- MILL PAD AREA = 1,643,453 ft²
- ORE PAD AREA = 976,780 ft²
- PACE 6"
- 637 ROUTE #4 APPROXIMATES HALL

$$\frac{\text{theory}}{\text{theory}} \left[[1,643,453 + 976,780] \text{ ft}^2 \times \frac{1}{2} \text{ ft} \right] \div 27 \frac{\text{ft}^3}{\text{yd}} = 48,522 \text{ yd}^3$$

$$\frac{\text{say}}{\text{say}} \boxed{48,600 \text{ yd}^3}$$

$$\therefore \frac{48,600 \text{ yd}^3}{368 \text{ yd}^3/\text{hr}} = \boxed{132 \text{ "637" hours}}$$

MILL DECOMMISSIONING WIND BLOWN CONTAMINATION

1) SCOPING SURVEY

- Initial Survey will be conducted on a area to be determined but for this estimate it is defined as an area approximated by a perimeter 1000 feet outside of the restricted area boundaries. This is conservative since wind blown contamination would most likely be found downwind of the site, which is on the east side of the restricted area.

- AREA DETERMINED BY CAR. = 38,728,000 ft²

Area Requiring Wind Blown Survey is

TOTAL AREA -	38,728,000 ft ²
Cell 4A	1,909,000 ft ²
Cell 3	3,234,000 ft ²
Cell 2	2,987,000 ft ²
Cell 1	2,576,000 ft ²
MILL YARD	1,643,000 ft ²
ONE STORAGE PAD	977,000 ft ²
	<hr/>
	25,402,000 ft ²

- ASSUME PLACEMENT OF STANDARD NRC/EPA 10 X 10 meter grid (1076 ft²)
- ASSUME SCOPING SURVEY COMPLETED BY SCANNING WITH NR meter held close to ground while traveling at ± 0.5 m/sec as per Guidance in NUREG 5849.
- SURVEY CREW OF 2 CAPABLE OF SETTING 500 GRID POINTS PER DAY

$$\frac{25,402,000 \text{ ft}^2}{1076 \text{ ft}^2} = 23,600 \text{ GRID POINTS}$$

$$\frac{23,600 \text{ POINTS}}{500 \text{ POINTS/DAY}} \approx 47 \text{ DAYS}$$

$$2 \text{ men} \times 8 \text{ hrs} \times 47 \text{ Days} = \boxed{752 \text{ manhrs}} - \text{SURVEY}$$

- SCANNING CREW CONSISTS OF 2 men -

- COVERAGE $0.5 \text{ m/sec} \times 60 \text{ sec/min} \times 8 \text{ hrs/day} = 14,400 \text{ m/day}$

ASSUME .8 EFF. FACTOR

$$14,400 \text{ m/day} \times .8 = 11,520 \text{ m/day}$$

Wind-blown Contamination - Scraping Survey

- Assume 30 meter Path for each 10 x 10 grid to cover 10% of surface area (Per NUREG 5549)

$$\text{CREW CAN SCAN } \frac{11,520 \text{ m/day}}{30 \text{ m/grid}} = 384 \text{ Grids/day}$$

$$\therefore \frac{23,600 \text{ Grids}}{384 \text{ Grids/day}} \approx 62 \text{ Day TO Complete INITIAL Scan}$$

$$62 \text{ Days} \times 2 \text{ men} \times 8 \text{ hrs/day} = \boxed{992 \text{ man hrs}}$$

- Assume Map Production + Data Reduction take Scanning Crew AN ADDITIONAL 20 Days TO Complete

$$20 \text{ Days} \times 2 \text{ men} \times 8 \text{ hrs/day} = \boxed{320 \text{ man hrs}}$$

$$\text{TOTAL SCANNING Man hrs} = \boxed{1312}$$

- Scraping Survey will require 100 Contamination Soil Samples at a Cost of \$ 50.00 / EACH (Unit + R226)
- Samples can be taken at same time as Scanning takes place.

2) CHARACTERIZATION SURVEY -

Survey of areas identified as affected areas by Scraping Survey

• ASSUME:

- 20% of Area will require additional Sampling
- Probing will be used, 4 probe sites / grid (2 in, 2 out)
- Soil Samples will be required on 10% of Grid Surveys
 - Samples will be for Unit + R226
 - Cost / Sample = \$50 (Lab)

$$\frac{25,402,000 \text{ ft}^2}{1076 \text{ ft}^2/\text{grid}} = 23,608 \text{ Grids} \times .2 = 4722 \text{ Grids}$$

- Crew can cover 100 Grids / day probing
- Crew can take 25 Soil Samples / day

$$\text{Probing takes } \frac{4722 \text{ Grids}}{100 \text{ Grids/day}} \approx \boxed{47 \text{ Days}}$$

$$47 \times 2 \times 8 = \boxed{752 \text{ hrs}}$$

WINDBLOWN CONTAMINATION - IMPACT OF 20TH EPOCH

Soil Sample at 10% of Price grid

$$4721 \times .10 = 472 \text{ Soil Sample}$$

$$\frac{472 \text{ Samples}}{25 \text{ Samples/Day}} \approx \boxed{19 \text{ days}} \times \text{Ehrs} \times 2 = \boxed{304 \text{ hrs}}$$

Map Preparation + Data Reduction for District 5 days

$$5 \times 2 \times \text{Ehrs} = \boxed{80 \text{ hrs}}$$

$$\text{Total Hrs} = \boxed{1136 \text{ man hrs}}$$

3) RECONITION CONTROL SURVEY

• Provided by QA/QC Contractor

4) FINAL STATUS SURVEY

- IN ORDER TO GAIN FINAL RELEASE, WILL REQUIRE 4 GAMMA ESTIMATES PER EACH 100 M² GRID SQUARE IN THE AFFECTED AREA (20% of Area)
- 200 RANDOM SOIL SAMPLES WILL BE GATHERED FROM THE UNAFFECTED AREA (80% of Area)
- WILL REQUIRE 100 CONFIRMATORY SAMPLES FOR THE AFFECTED AREA

Therefore

$$\begin{aligned} 25,402 \div 1076 \text{ ft}^2/100 \text{ m}^2 &= 23,607 \text{ Grids TOTAL} \\ 23,607 \times 0.20 &= 4,721 \text{ Grids } \underline{\underline{\text{AFFECTED}}} \\ 4,721 \times 4 &= 18,886 \text{ GAMMA ESTIMATES.} \end{aligned}$$

- CREW CAN TAKE 100 PROBE SAMPLES / DAY

$$\therefore 18886 \div 100 = 188.8 \text{ days } \underline{\underline{190 \text{ days}}}$$

- CREW CAN TAKE 25 SOIL SAMPLES / DAY

$$\therefore [200 + 100] \div 25 = 12 \text{ days.}$$

- ASSUME 20 additional DAYS FOR DATA REDUCTION & REPORT GENERATION

INTERNATIONAL URANIUM (USA) CORP.
COST ESTIMATE

PROJECT..... Date..... Calc by..... Sheet..... of.....

MILL DECOMMISSIONING
WIND BLOWN CONTAMINATION (Cont)

5) CLEAN-UP.

- ASSUME 20% OF AREA SURVEYED REQUIRES CORRECTIVE ACTION
- 6" OF SOIL WILL BE STRIPPED

$$\begin{aligned} \text{Therefore } 25,402 \text{ M}^2 \times 0.20 \times 0.5 \text{ Ft} &= 2,540,000 \text{ Ft}^3 \\ &\approx 94,000 \text{ yd}^3 \\ \text{say } &\boxed{94,100 \text{ yd}^3} \end{aligned}$$

- AS IT IS NOT KNOWN WHAT AREAS MAY BE CONTAMINATED, ASSUME THE USE OF 637 HAUL ROUTE #6 TO BE CONSERVATIVE.
- BECAUSE OF THE POTENTIAL FOR IRREGULAR & DISCONNECTED AREAS, EFFICIENCY WILL BE ONLY 50% OF REGULAR 637 EFFICIENCY.

$$\begin{aligned} \text{Therefore } 277 \text{ yd}^3/\text{hr} \times 0.50 &= 138.5 \text{ yd}^3/\text{hr} \\ \text{say } &\boxed{138 \text{ yd}^3/\text{hr}} \end{aligned}$$

$$\begin{aligned} \text{Therefore } 94,100 \text{ yd}^3 \div 138 \text{ yd}^3/\text{hr} &= 681 \text{ scraper hours} \\ \text{say } &\boxed{680 \text{ hours}} \end{aligned}$$

Calculation Sheet

Project: White Mesa Rec. Plan Costs by: HLR

Page 1 of

Alternate Feed Material - on site as of 02/20/04

- 1) Linde FUSRAP
- 2) Cameco bannelled material

Per telecon w/ Wally Brice:

Linde - 39,000 yd³

Cameco - 42,740 bannels

RECLAMATION OF CELL 1

RECLAMATION OF CELL 1

Dewatering of Cell 1

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Dewatering of Cell 1	hrs	\$0.48	62,400	\$30,000

Total Dewatering of Cell 1

\$30,000

Crystal Removal

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Equipment Operators	hrs	\$17.72	2,695	\$47,749
Cat 769 Truck	hrs	\$68.68	2,157	\$148,148
Truck Drivers	hrs	\$12.74	2,157	\$27,481
Cat 988 Loader	hrs	\$104.64	539	\$56,402
Cat D8N Dozer With Ripper	hrs	\$73.76	539	\$39,756
Cat 365 Excavator	hrs	\$98.33	539	\$53,001
Cat 651 Waterwagon	hrs	\$77.13	539	\$41,572
Cat 14G Motorgrader	hrs	\$50.74	539	\$27,347
Equipment Maintenance (Butler)	hrs	\$13.07	4,852	\$63,404

Total Crystal Removal

\$504,860

Contaminated Materials Removal

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Equipment Operators	hrs	\$17.72	616	\$10,914
Cat 637 Scraper	hrs	\$153.11	308	\$47,157
Cat D8N Dozer With Ripper	hrs	\$73.76	77	\$5,679
Cat 825C Compactor	hrs	\$71.24	77	\$5,486
Cat 651 Waterwagon	hrs	\$77.13	77	\$5,939
Cat 14G Motorgrader	hrs	\$50.74	77	\$3,907
Equipment Maintenance (Butler)	hrs	\$13.07	616	\$8,050

Total Contaminated Materials Removal

\$87,131

Topsoil Application

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Equipment Operators	hrs	\$17.72	240	\$4,252
Cat 637 Scraper	hrs	\$153.11	120	\$18,373
Cat D8N Dozer With Ripper	hrs	\$73.76	40	\$2,950
Cat 651 Waterwagon	hrs	\$77.13	40	\$3,085
Cat 14G Motorgrader	hrs	\$50.74	40	\$2,029
Equipment Maintenance (Butler)	hrs	\$13.07	240	\$3,136

Total Topsoil Application

\$33,826

RECLAMATION OF CELL 1

Construct Channel

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Equipment Operators	hrs	\$17.72	858	\$15,202
Cat 637 Scraper	hrs	\$153.11	272	\$41,645
Cat 769 Truck	hrs	\$68.68	450	\$30,907
Truck Drivers	hrs	\$12.74	450	\$5,733
Cat 988 Loader	hrs	\$104.64	150	\$15,696
Drilling & Blasting Contractor	BCY	\$1.71	89,100	\$152,361
Cat 14G Motorgrader	hrs	\$50.74	218	\$11,061
Cat D8N Dozer With Ripper	hrs	\$73.76	218	\$16,080
Equipment Maintenance (Butler)	hrs	\$13.07	1,308	\$17,092

Total Construct Channel

\$305,776

Place Clay Liner

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Equipment Operators	hrs	\$17.72	355	\$6,290
Cat 637 Scraper	hrs	\$153.11	0	\$0
Cat 825 Compactor	hrs	\$71.24	60	\$4,274
Cat D8N Dozer With Ripper	hrs	\$73.76	60	\$4,426
Cat D7 Dozer	hrs	\$62.38	0	\$0
Cat 651 Waterwagon	hrs	\$77.13	60	\$4,628
Cat 980 Loader	hrs	\$68.82	60	\$4,129
5000 Gallon Water Truck	hrs	\$44.26	30	\$1,328
Highway Trucks	hrs	\$45.26	435	\$19,688
Truck Drivers	hrs	\$12.74	435	\$5,542
Cat 14G Motorgrader	hrs	\$50.74	85	\$4,313
Equipment Maintenance (Butler)	hrs	\$13.07	1,580	\$20,647

Total Place Clay Liner

\$75,264

Place Lower Random Fill

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Equipment Operators	hrs	\$17.72	602	\$10,666
Cat 637 Scraper	hrs	\$153.11	172	\$26,334
Cat 825 Compactor	hrs	\$71.24	86	\$6,127
Cat D8N Dozer With Ripper	hrs	\$73.76	86	\$6,343
Cat D7 Dozer	hrs	\$62.38	86	\$5,365
Cat 651 Waterwagon	hrs	\$77.13	86	\$6,633
Cat 14G Motorgrader	hrs	\$50.74	86	\$4,363
Equipment Maintenance (Butler)	hrs	\$13.07	602	\$7,867

Total Place Lower Random Fill

\$73,698

RECLAMATION OF CELL 1

Clay Cap

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Equipment Operators	hrs	\$17.72	305	\$5,404
Cat 637 Scraper	hrs	\$153.11	0	\$0
Cat 825 Compactor	hrs	\$71.24	55	\$3,918
Cat D8N Dozer With Ripper	hrs	\$73.76	55	\$4,057
Cat D7 Dozer	hrs	\$62.38	0	\$0
Cat 651 Waterwagon	hrs	\$77.13	55	\$4,242
Cat 14G Motorgrader	hrs	\$50.74	55	\$2,791
Cat 980 Loader	hrs	\$68.82	55	\$3,785
5000 Gallon Water Truck	hrs	\$44.26	30	\$1,328
Highway Trucks	hrs	\$40.00	440	\$17,600
Truck Drivers	hrs	\$12.74	440	\$5,606
Equipment Maintenance (Butler)	hrs	\$13.07	305	\$3,986

Total Place Clay Cap

\$52,716

Upper Random Fill

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Equipment Operators	hrs	\$17.72	688	\$12,190
Cat 637 Scraper	hrs	\$153.11	172	\$26,334
Cat 825 Compactor	hrs	\$71.24	86	\$6,127
Cat D8N Dozer With Ripper	hrs	\$73.76	86	\$6,343
Cat D7 Dozer	hrs	\$62.38	86	\$5,365
Cat 651 Waterwagon	hrs	\$77.13	86	\$6,633
Cat 14G Motorgrader	hrs	\$50.74	86	\$4,363
5000 Gallon Water Truck	hrs	\$44.26	86	\$3,807
Equipment Maintenance (Butler)	hrs	\$13.07	688	\$8,990

Total Place Upper Random Fill

\$80,152

RECLAMATION OF CELL 1

Rock Armor

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Equipment Operators	hrs	\$17.72	90	\$1,595
Cat D7 Dozer	hrs	\$62.38	30	\$1,871
Cat 651 Waterwagon	hrs	\$77.13	30	\$2,314
Cat 14G Motorgrader	hrs	\$50.74	30	\$1,522
Rock Cost Delivered	CY	\$3.70	8,607	\$31,874
Equipment Maintenance (Butler)	hrs	\$13.07	90	\$1,176

Total Place Rock Armor

\$40,352

Quality Control

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Quality Control Contractor	hrs	\$62.00	800	\$49,600

Total Quality Control

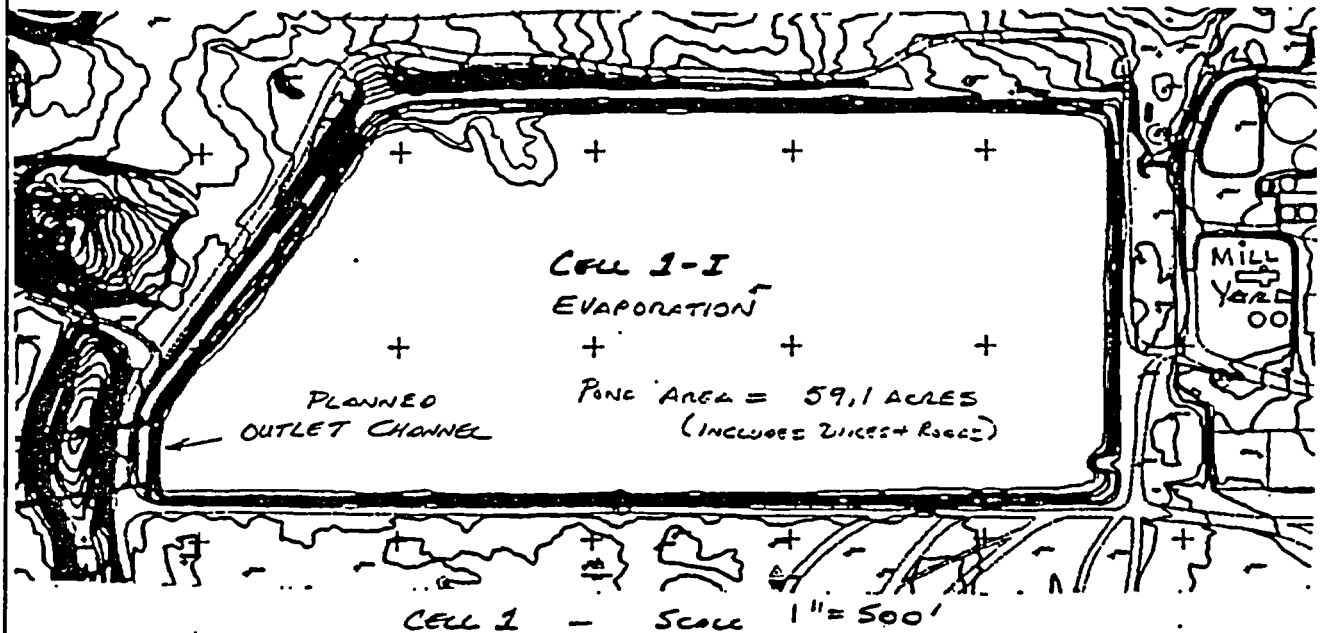
\$49,600

TOTAL RECLAMATION OF CELL 1

\$1,333,377

INTERNATIONAL URANIUM (USA) CORP.
COST ESTIMATE

Cell 1 Volume Calculations



1) Crystal Volume + Liner Cover

- Crystal thickness based on historical condition of top of crystal layer and areal mapping → Assume 3 ft thick
- Soil cover over PVC Liner 1½' by design and as built
- Liner crystals and soil cover all picked up at same time.

$$\text{Area of Pond} \quad \frac{2,575,703 \text{ ft}^2 \times (3 \text{ ft} + 1.5 \text{ ft})}{27 \text{ ft}^3/\text{cy}} = 429,253 \text{ cy}$$

$$\rightarrow \boxed{429,300 \text{ cy}}$$

2) Volume of Contaminated material under Liner . . .

- Assume for purposes of this estimate that 1 ft of contaminated material must be removed from under liner for whole cell

$$\frac{2,575,703 \text{ ft}^2 \times 1 \text{ ft}}{27 \text{ ft}^3/\text{cy}} = 95,396 \text{ cy} \rightarrow \boxed{95,400 \text{ cy}}$$

3) Time Required to haul Xyls + Liner Cover. Assuming the use of 4-769 Trucks, a 275L TRUCKBOX; 988 Loader, Assume haul Route # 1 for production (199 cy/hr) truck/hr

$$\frac{429,300 \text{ cy}}{199 \text{ cy/hr}} = 2157 \text{ truck hrs} \quad - \quad 539 \text{ hrs / truck}$$

CELL VOLUME CALCULATIONS

4)

TIME REQUIRED TO REMOVE MATERIAL FROM UNDER LNER IN PLACE
IN CELL #3 - USE HAUL ROUTE #1 - 4 SCRAPERS

$$\frac{95,500 \text{ cy}}{310 \text{ cy/hr/scraper}} = 308 \text{ scraper hours} \quad 4 \text{ scrapers} = 77 \text{ hrs/unit.}$$

5)

TOP SOIL VOLUMES → place 6" of TOP SOIL OVER AREA OF

$$\text{Cell 1} - \frac{2,575,703 \text{ ft}^2 \times .5 \text{ ft}}{27 \text{ ft}^3/\text{cy}} \approx 47,698 \text{ cy}$$

$$\rightarrow 48,000 \text{ cy}$$

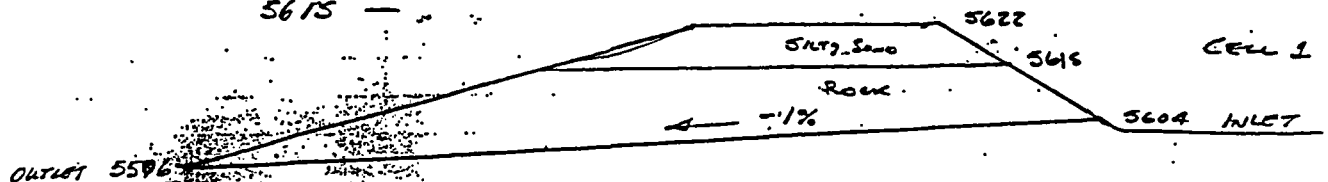
USE SCRAPER FLOOT ASSUME ROUTE 1 → 310 cy/hr/scraper

$$\frac{48,000 \text{ cy}}{310 \text{ cy/hr/scraper}} \approx 155 \text{ hrs using one scraper}$$

$$\text{if use 4 scrapers} \approx 40 \text{ hrs/unit.}$$

6) DISCHARGE CHANNEL VOLUME →

- CHANNEL WILL HAVE BASE WIDTH OF 150 ft - Side Slope 3:1
- CHANNEL FLOW LINE WILL DROP AT .01 ft/ft (1%)
- ROCK ELEVATION BASED ON DRILL LOGS + CONSTRUCTION REPORT IS AT 5615 -



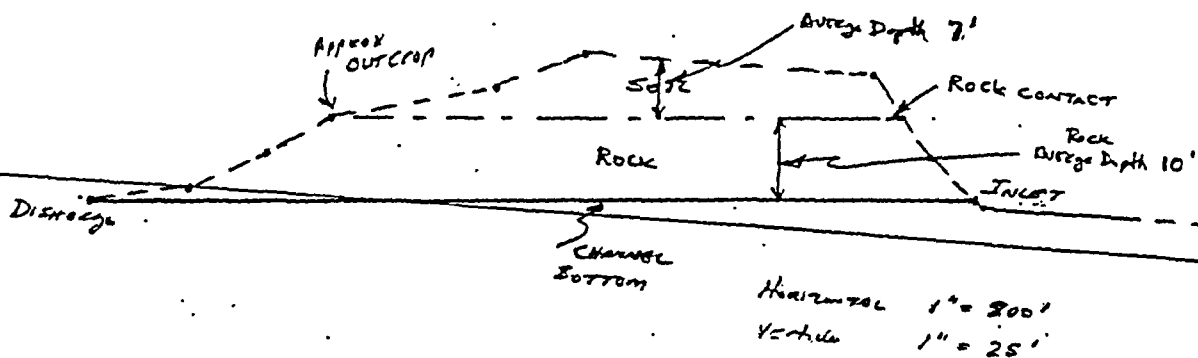
Random Fill and Top Soil STOCKPILES will be used in the
RECLAMATION OF Cells 2 + 3 and the mill yard before discharge
channel is built.

INTERNATIONAL URANIUM (USA) CORP.
COST ESTIMATE

Cell 1 Volume Calculations

OUTLET CHANNEL SECTIONS

SECTION A-A'



1852.9

- Assume

B-B' 1" = 50'

Rock = 81 cy/ft channel length

Soil = 76 cy/ft channel length

300 ft channel =

64,800 cy Rock

60,800 cy Soil

- Use scrapers on Soil Removal

- Drill and Blast Rock Use Trucks to Haul away
Based on EPA's Experience during Construction - Rock Does Not Rip
Blasting is required.

- Assume Route 1 Eq. Trucks + Scrapers

Trucks - 199 cy/truck/hr

Scrapers - 310 cy/hr

INTERNATIONAL URANIUM (USA) CORP.
COST ESTIMATE

CHANNEL EXCAVATION (CONTINUED)

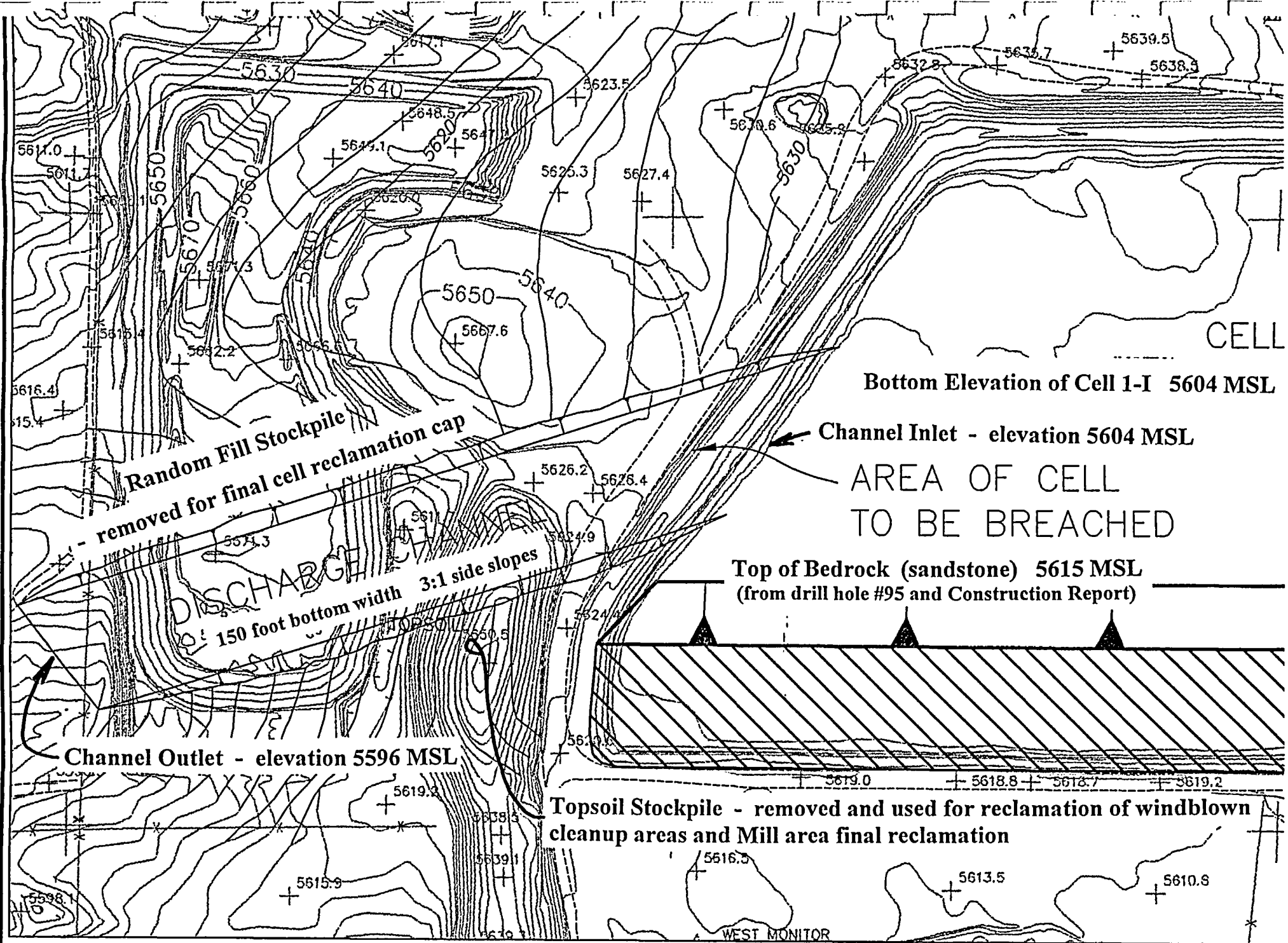
Soil → $\frac{69,800 \text{ cy}}{310 \text{ cy/hr}} = 196 \text{ scraper hrs} \Rightarrow 50 \text{ hr/individual scraper} \times 4 \text{ scrapers}$

Rock → $\frac{69,800 \text{ cy}}{199 \text{ cy/hr}} = 325 \text{ truck hrs} \Rightarrow 2 \text{ trucks} = 163 \text{ hrs/cy}$

Drilling + Blasting Rock → 10 ft average Depth → \$0.90/cy
Based on Recent Contractor Quote

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS





Cell 1-I Outlet Channel

1 inch = 200 feet

Calculation / Work Sheet

Project: Rec. Plan Revision 3.0 by: _____ Page of
 Date: 07-06-00

Revision to Topsoil Cost - Cell 1-2

5) Place 6" of Topsoil over open area of Cell 1-2

Total area of Cell 1 - w/ side slopes = 60 ac.

Area consumed by new disposal area =

$$(175' + 100') \times 2,600 = 715,000 \text{ ft}^2 = 16.41 \text{ ac.}$$

Use 16:-

Total area to be topsoiled = 60 - 16 = 44 acres

$$\text{Total volume} = \frac{44 \times 43,560 \times 0.5 \text{ ft}}{27} = 35,493 \text{ yd}^3$$

Use scraper fleet - assume route No. 1

310 yd³ / hr / machine

$$\frac{35,493 \text{ yd}^3}{310} = 114.5 \text{ hr.}$$

Use 3 machines

38.17 hr. —

use 40 hr. x 3

120 hr.
Total

Calculation Sheet

Page 1 of 1

Project: White Mesa Rec. Plan by: JBR

Cell 1 - Outfall channel - update drill & blast

Use last year quote - escalate by 5%

$$1.60 / yd^3 \times 1.05 = \$1.68$$

Mobilization - \$2,500

$$89,100 yd^3 / \$2,500 = \$0.03 / yd^3 mob.$$

$$Total Cost = \$1.71 / yd^3 Drill \& Blast$$

See attached quote Sam 2003

**Franklin Drilling &
Blasting, Inc.**

P.O. Box 2246
Durango, Co 81302

Phone: 970-259-5620
Fax: 970-259-1304

Mr. Bob Hembree

March 3, 2003

BID PROPOSAL

We hereby submit specifications for providing a licensed blaster, drilling equipment, liability insurance, explosives and materials to drill, load and shoot for the Blanding, Utah Spillway Project

Drill, Load and Shoot is priced at \$1.60 per cubic yard.

Mobilization is priced at \$2,500.00 per mobilization.

ACCEPTANCE OF BID PROPOSAL

The above prices, descriptions and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be as outlined above.

Date: _____

Signature: _____

Date: 3-303

Signature: Jeff Franklin (WA)

Franklin Drilling & Blasting, Inc.

Calculation / Work Sheet

Project: Reg. Plan Revision 3.0 by: _____

Page _____ of _____

Date: 07-06-00

Revision to Channel construction cost.

New channel width - 1200 ft (was 800 ft)

- Assume Rock 81 cy / ft of channel length
Soil 76 " " " " "

1100 ft 89,100 cy Rock

83,600 cy soil

- use SCRAPERS on soil removal
- Drill & Blast Rock - use Trucks to haul

Based on EFN's experience during construction -
Rock is not easily ripped - Blasting is required

- Assume Route 1 for Trucks and Scrapers.

Trucks 199 yd³ / truck / hr
Scrapers 310 " scraper / "

Rock - $\frac{89,100 \text{ yd}^3}{199} = 448 \text{ hr.} - 3 \text{ trucks} - 150 \text{ hr. eq.}$
450 hr.

Soil $\frac{83,600 \text{ yd}^3}{310} = 270 - 4 \text{ units} = 67.5 = 68 \text{ hr. eq.}$
272 hr.

Support equipment - 150 hr. + 68 hr. = 218 hr.

Calculation / Work Sheet

Project: Rec Plan Revision 3.0

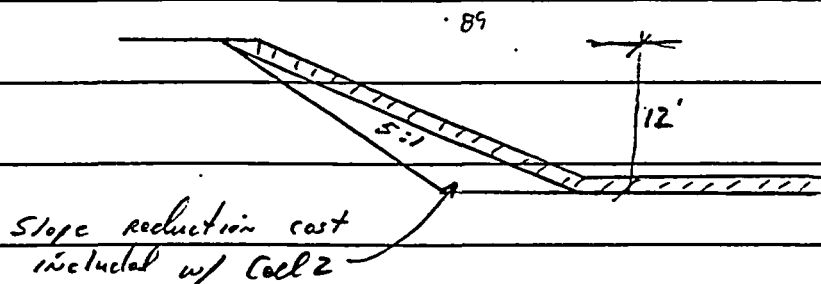
by:

Page ____ of ____

Date: 07-06-00

Installation of Clay Liner in Cell 1-I

Clay liner - Average depth of Tailings - 18'



$$\text{Slope length} = (5)(18) = 90'$$

$$\text{Horizontal length} = 176$$

$$175 + 90 = 265$$

$$265 - 89 = 176$$

$$\text{Total length} = 265$$

$$266 \text{ ft}$$

$$266 \text{ ft} \times 12' \times 2600 \text{ ft} = 691,600 \text{ ft}^3$$

$$25,615 \text{ yd}^3 \text{ liner}$$

Clay production cost - from Cell 2 estimate

$$22 \text{ yd}^3 \text{ per cycle} \times 2.7 \text{ cycles/hr} = 59.4 \text{ yd}^3 \text{ per hour/truck}$$

$$\text{Use 8 trucks} = 475 \text{ yd}^3/\text{hr.}$$

$$\frac{25,615 \text{ yd}^3}{475} = 54 \text{ hr.} - \text{ use } 60 \text{ hr}$$

Calculation / Work Sheet

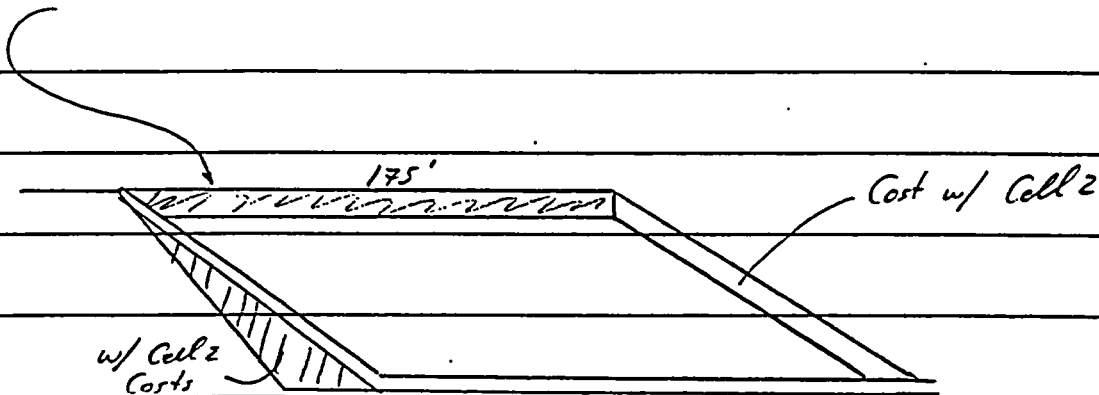
Project: Rec Plan Revision 3.0 by: _____

Page _____ of _____
Date 07-06-00

Installation of lower Random Fill

North Slope lower Random Fill included with
Cell 2 Cost (19,500 yd³)

lower Random Fill on extension Area.



3' thick - 175' wide x 2600 ft

50,556 yd³

Use Route 5 haulage - scrapers $\geq 296 \text{ yd}^3/\text{hr.} = 171 \text{ hr.}$

use 2 scrapers - 87 hr. each use 174

Calculation / Work Sheet

Project: Rec. Plan Revision 3.0 by: Page of
 Date 07-06-00

Clay Cap - top and side slope

top - 175 ft

slope - 90 ft

265 ft x 1.0 ft thick x 2600 ft

25,518 yd³

Use same haulage factor for clay liner

22 yd³ per truck cycle x 2.7 cycles/hr =

59.4 yd³
per hour/truck

8 trucks = 475 yd³/hr = 53.7 hr - use 55

440 truck hr.

55 other

Calculation / Work Sheet

Project: Rec Plan Revision 3.0 by: HR Page of
 Date 07-06-00

Place Upper Random Fill

2'-0" lay over top and slope

Total width - 175' + 90' = 265 ft

$265 \times 2600 \times 2'-0" = 1,378,000 \text{ ft}^3$

$= 51,037 \text{ yd}^3$

Use Route 5 haulage - scrapers $296 \text{ yd}^3/\text{hr} = 172 \text{ hr}$

Use 2 scrapers = 86 hr

Calculation / Work Sheet

Project: Rec. Plan Revision 3.0 by: ALL

Page of

Date 07-06-00

Installation of Rock Armor

Top of new area = $175' \times 2600 \text{ ft}$

6" Thick $175 \times 2600 \times 0.5 = 227,500 \text{ ft}^3$

$8,426 \text{ yd}^3$

Toe Apron on East and West sections

$(175' \times 7' \times 2' \text{ Thick}) \times 2 = 4900 \text{ ft}^3 = 182 \text{ yd}^3$

Upstream slope and toe apron running east-west included
in Cell 2 Rectangular Costs

Total $8,607 \text{ yd}^3$

$8,607 \text{ yd}^3 - 38 \text{ yd}^3 / \text{truck} = 226.5 \text{ hr.} - \text{use } 227$

use 8 trucks $28.31 \text{ hr.} - \text{use } 30$

RECLAMATION OF CELL 2

Obtain Permits for Clay Borrow Site - Section 16

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Permits & Licenses	ea	\$10,000.00	5	\$50,000

Total Obtain Permits for Clay Borrow Site - Section 16

\$50,000

Place Remainder of Bridging (Platform) Lift

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Equipment Operators	hrs	\$17.72	63	\$1,116
Cat 627F Scraper	hrs	\$153.11	23	\$3,521
Cat 815C Compactor	hrs	\$71.24	8	\$570
Cat D8N Dozer With Ripper	hrs	\$73.76	8	\$590
Cat D7 Dozer	hrs	\$62.38	8	\$499
Cat 651 Waterwagon	hrs	\$77.13	8	\$617
Cat 14G Motorgrader	hrs	\$50.74	8	\$406
Equipment Maintenance (Butler)	hrs	\$13.07	63	\$823

Total Place Remainder of Bridging (Platform) Lift

\$8,143

Place Lower Random Fill (12")

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Equipment Operators	hrs	\$17.72	902	\$15,981
Cat 637 Scraper	hrs	\$153.11	402	\$61,548
Cat 825 Compactor	hrs	\$71.24	100	\$7,124
Cat D8N Dozer With Ripper	hrs	\$73.76	100	\$7,376
Cat D7 Dozer	hrs	\$62.38	100	\$6,238
Cat 651 Waterwagon	hrs	\$77.13	100	\$7,713
Cat 14G Motorgrader	hrs	\$50.74	100	\$5,074
Equipment Maintenance (Butler)	hrs	\$13.07	902	\$11,787

Total Place Lower Random Fill (12")

\$122,842

Clay Layer

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Equipment Operators	hrs	\$17.72	1,690	\$29,943
Cat 825 Compactor	hrs	\$71.24	320	\$22,797
Cat D8N Dozer With Ripper	hrs	\$73.76	300	\$22,128
Cat D7 Dozer	hrs	\$62.38	0	\$0
Cat 651 Waterwagon	hrs	\$77.13	300	\$23,138
Cat 14G Motorgrader	hrs	\$50.74	320	\$16,236
Cat 980 Loader	hrs	\$68.82	300	\$20,646
5000 Gallon Water Truck	hrs	\$44.26	150	\$6,640
Highway Trucks	hrs	\$45.26	2,400	\$108,623
Truck Drivers	hrs	\$12.74	2,400	\$30,577
Equipment Maintenance (Butler)	hrs	\$13.07	4,090	\$53,446

Total Place Clay Layer

\$334,174

RECLAMATION OF CELL 2

Upper Random Fill

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Equipment Operators	hrs	\$17.72	1,990	\$35,258
Cat 637 Scraper	hrs	\$153.11	796	\$121,872
Cat 825 Compactor	hrs	\$71.24	199	\$14,177
Cat D8N Dozer With Ripper	hrs	\$73.76	199	\$14,678
Cat D7 Dozer	hrs	\$62.38	199	\$12,414
Cat 651 Waterwagon	hrs	\$77.13	199	\$15,348
Cat 14G Motorgrader	hrs	\$50.74	199	\$10,097
5000 Gallon Water Truck	hrs	\$44.26	199	\$8,809
Equipment Maintenance (Butler)	hrs	\$13.07	1,990	\$26,004

Total Place Upper Random Fill

\$258,658

Rock Armor

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Equipment Operators	hrs	\$17.72	825	\$14,617
Cat D7 Dozer	hrs	\$62.38	275	\$17,155
Cat 651 Waterwagon	hrs	\$77.13	275	\$21,210
Cat 14G Motorgrader	hrs	\$50.74	275	\$13,953
Rock Cost Delivered	CY	\$3.70	66,200	\$245,159
Equipment Maintenance (Butler)	hrs	\$13.07	825	\$10,781

Total Place Rock Armor

\$322,875

Quality Control

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Quality Control Contractor	hrs	\$62.00	1,050	\$65,100

Total Quality Control

\$65,100

TOTAL RECLAMATION OF CELL 2

\$1,161,790

Volume Calculation - Cell 2

02/10/99
Reviewed 02/23/04

1) Area of Cell 2 - 2,986,660 sq ft = 68.56 acres

2) Area of Cell 2 still open as of February 24, 2003 (see Figure A)

225 ft X 250 ft = 56,250

Use 60,000 sq ft
1.4 acres

3) Assumptions

- Bridging layer is placed using random fill from piles west of Cell 2
- Cell will be graded to Design elevation utilizing finer materials in random fill stockpiles and from "clay" stockpiles.
- Clay will be mined, blended, and hauled from borrow site location in Section 16 - four miles south of the mill area, using belly dump trucks, clay layer on top of Cell only, except on south slope common to Cell 3.
- The upper 1 foot of random fill will be placed utilizing the fine random fill and clay stockpiles
- Rock for side armor, top armor and toe aprons will come from an off-site gravel source one (1) mile north of Blanding. Rock will be produced through screening, stockpiled and trucked to the site at the time of use. Belly dump trucks will dump gravel in windrows on the top and sides of the Cell.

4) Bridging Layer (Platform Fill) Remaining to be placed

60,000 sq ft X 3 ft. / 27 cubic feet per cubic yard = 6,667 cubic yards

Use 6,670 cubic yards

5) Bring Platform Fill up to Design elevation (Lower Random)

Assume full area of Cell X one (1) foot thick

2,986,660 sq ft X 1 ft. / 27 cubic feet per cubic yard = 110,617 cubic yards

Use 110,700 cubic yards

6) Placement of Clay Layer (One (1) foot thick on top of Cell only)

Assume full area of Cell X one (1) foot thick

2,986,660 sq ft X 1 ft. / 27 cubic feet per cubic yard = 110,617 cubic yards

Use 110,700 cubic yards

Volume Calculation - Cell 2 (con't) page 2

- 7) Upper Random Fill Volume - Top of Cell area
Assume full area of Cell X one (2) foot thick

$$2,986,660 \text{ sq ft} \times 2 \text{ ft.} / 27 \text{ cubic feet per cubic yard} = 221,234 \text{ cubic yards}$$

Use 221,300 cubic yards

- 8) Armor Protection - Top of Cell
Assume full area of Cell X one-half (0.5) foot thick

$$2,986,660 \text{ sq ft} \times 0.5 \text{ ft.} / 27 \text{ cubic feet per cubic yard} = 55,309 \text{ cubic yards}$$

Use 55,400 cubic yards

- 9) Cell 2 North Slope (Slope #1) common with Cell 1-I

Average height 12 feet
Length 2600 feet

- a) Random fill to reduce slope from 3:1 to 5:1

$$\text{First Wedge} \quad [12 \times 12 \times 5]/2 - (12 \times 12 \times 3)/2 \times 2600$$

$$= 374,400 \text{ cubic feet} / 27 = 13,867 \text{ cubic yards}$$

Use 13,900 cubic yards

Remaining Random Fill

$$[15 \times 15 \times 5]/2 - (12 \times 12 \times 5)/2 \times 2600$$

$$= 526,500 \text{ cubic feet} / 27 = 19,500 \text{ cubic yards}$$

Use 19,500 cubic yards

Total Random Fill North Slope

33,400 cubic yards

- b) Rock Armor 8" thick - 0.67 feet

$$[15.67 \times 15.67 \times 5]/2 - (15 \times 15 \times 5)/2 \times 2600$$

$$= 133,568 \text{ cubic feet} / 27 = 4,947 \text{ cubic yards}$$

Use 5,000 cubic yards

- c) Toe Apron

$$2 \times 7 \times 2600 / 27 = 1,348 \text{ cubic yards}$$

Use 1,400 cubic yards

Total Rock Armor Cell 2 north Slope

6,400 cubic yards

10) North Slope common with Mill yard (Slope #2)

Average height 1 feet
Length 900 feet

a) Random fill to reduce slope from 3:1 to 5:1

$$\begin{aligned} \text{First Wedge} & \quad [1 \times 1 \times 5]/2 - (1 \times 1 \times 3)/2] \times 900 \\ & = \quad 900 \text{ cubic feet} / 27 = \end{aligned}$$

33 cubic yards
Use 100 cubic yards

Remaining Random Fill

$$\begin{aligned} & \quad [4 \times 4 \times 5]/2 - (1 \times 1 \times 5)/2] \times 900 \\ & = \quad 33,750 \text{ cubic feet} / 27 = \end{aligned}$$

1,250 cubic yards
Use 1,300 cubic yards

Total Random Fill North Slope

1,400 cubic yards

b) Rock Armor 8" thick - 0.67 feet

$$\begin{aligned} & \quad [4.67 \times 4.67 \times 5]/2 - (5 \times 5 \times 5)/2] \times 900 \\ & = \quad 13,070 \text{ cubic feet} / 27 = \end{aligned}$$

484 cubic yards
Use 500 cubic yards

c) No Toe Apron on fill common with Mill Yard

Total Rock Armor on slope common to Mill Yard

500 cubic yards

11) Cell 2 West Dike (Slope #3)

Average height 2 feet
Length 500 feet

a) Random fill to reduce slope from 3:1 to 5:1

$$\begin{aligned} \text{First Wedge} & \quad [2 \times 2 \times 5]/2 - (2 \times 2 \times 3)/2] \times 500 \\ & = \quad 2,000 \text{ cubic feet} / 27 = \end{aligned}$$

74 cubic yards
Use 100 cubic yards

Remaining Random Fill

$$[2 \times 2 \times 5]/2 - (2 \times 2 \times 3)/2] \times 500$$

$$= 2,000 \text{ cubic feet} / 27 =$$

Use 74 cubic yards
100 cubic yards

Total Random Fill North Slope

200 cubic yards

b) Rock Armor 8" thick - 0.67 feet

$$[5.67 \times 5.67 \times 5]/2 - (5 \times 5 \times 5)/2] \times 500$$

$$= 8,936 \text{ cubic feet} / 27 =$$

Use 331 cubic yards
400 cubic yards

c) Toe Apron Not required for slope 10 feet long - Drainage from Cell goes south to Cell 3 and then off of south slope of Cell 3

Total Rock Armor Cell 2 north Slope

400 cubic yards

12) Cell 2 East Dike (Slope #4)

Average height 1 feet
Length 1250 feet

a) Random Fill Wedge from #10 1 cubic foot per linear foot X 1250

Use 46 cubic yards
100 cubic yards

b) Remaining Random Fill from #10
37.5 cubic foot per linear foot X 1250 / 27

Use 1,736 cubic yards
1,800 cubic yards

Total Random Slope #4

1,900 cubic yards

c) Rock Armor 8" thick - 0.67 feet from #10 14.52 cubic feet per linear foot of dike

$$14.52 \text{ cubic foot per linear foot} \times 1250 / 27$$

$$= 672 \text{ cubic feet} / 27 =$$

Use 672 cubic yards
700 cubic yards

c) Toe Apron Not required

Total Rock Armor Cell 2 north Slope

700 cubic yards

13) South Slope Cell 2 common with Cell 3 (Slope #5)

Average height 3 feet
Length 3500 feet

a) Random fill to reduce slope from 3:1 to 5:1

$$\text{Random Fill } [3 \times 3 \times 5]/2 - (3 \times 3 \times 3)/2 \times 3500$$

$$= 31,500 \text{ cubic feet} / 27 =$$

1,167 cubic yards
Use 1,200 cubic yards

Random Fill Upper

$$[6 \times 6 \times 5]/2 - (4 \times 4 \times 5)/2 \times 3500$$

$$= 175,000 \text{ cubic feet} / 27 =$$

6,481 cubic yards
Use 6,500 cubic yards

b) Clay Layer

$$[4 \times 4 \times 5]/2 - (3 \times 3 \times 5)/2 \times 3500$$

$$= 61,250 \text{ cubic feet} / 27 =$$

2,269 cubic yards
Use 2,300 cubic yards

c) Rock Armor 8" thick - 0.67 feet

$$[6.67 \times 6.67 \times 5]/2 - (6 \times 6 \times 5)/2 \times 3500$$

$$= 74,278 \text{ cubic feet} / 27 =$$

2,751 cubic yards
Use 2,800 cubic yards

No Toe Apron

Total Rock Armor on slope Cell 2 Slope common to Cell 3

2,800 cubic yards

Volume Summary - Cell 2

	Bridging Layer	Lower Random	Clay	Upper Random	Rock Armor
Top of Cell	6,670	110,700	110,700	221,300	55,400
North (Slope #1)		13,900		19,500	6,400
North (Slope #2)		100		1,300	500
West (Slope #3)		100		100	400
East (Slope #4)		100		1,800	700
South (Slope #5)		1,200	2,300	6,500	2,800
Totals	6,670	126,100	113,000	250,500	66,200

CELL 1-I

Cell 2 Volume Calculations

Scale 1" = 300 feet

A'

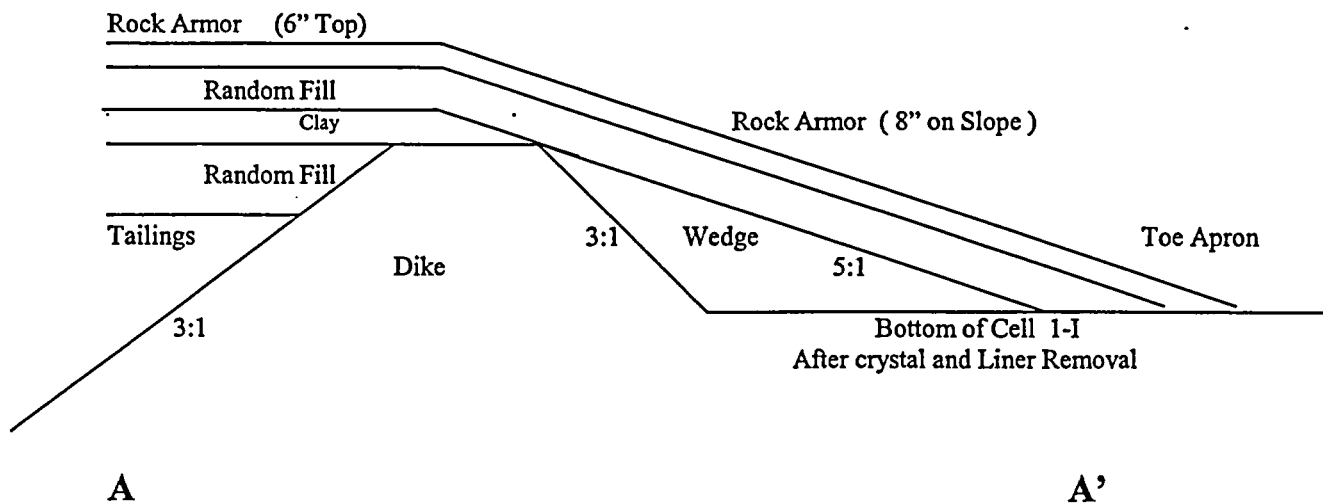


CELL 2

Remaining Area of Cell 2 without Bridging Layer (Platform Fill)

Section A - A' (not to scale) Showing Cover

Typical Section through Exterior Dike



Area Modified for Cell 1-I Disposal Area

Cell 2 Reclamation

Cat 637 Resource Requirements

	Volume	Route	Yds/hr	%	Equip. Hr.
Cell 2 Bridging Lift					
Tailings Surface	6,670	5	296	100%	22.5
Cell 2 Lower Random Fill					
Tailings Surface	110,700	5	296	67%	250.6
Tailings Surface	110,700	4	368	33%	99.3
Slope 1	13,900	5	296	100%	47.0
Slope 2	100	4	368	100%	0.3
Slope 3	100	5	296	100%	0.3
Slope 4	100	4	368	100%	0.3
Slope 5	1,200	5	296	100%	4.1
Total					401.7
Cell 2 Lower Random Fill					
Tailings Surface	221,300	5	296	67%	500.9
Tailings Surface	221,300	4	368	33%	198.4
Slope 1	19,500	5	296	100%	65.9
Slope 2	1,300	4	368	100%	3.5
Slope 3	100	5	296	100%	0.3
Slope 4	1,800	4	368	100%	4.9
Slope 5	6,500	5	296	100%	22.0
Total					796.0

Cell 2 Rock Armor -- use Highway Trucks

WHITE MESA MILL REC '99

Clay Production

Haillage From Section 16

Haul Profile From Section 16 - LOOSE

#	Segment Length	Grade		Loaded	Empty
1.	2000'	4%	600 m.	1 min	.65
2	1800'	11%	540 m	1.8 min	1 min
3	4200'	1.8%	1260 m	1.4 min	1.2 min
4	5600'	0.5%	1600 m	1.6 min	1.5 min
5	5700'	1.4%	1710 m	1.75 min	1.6 min
6	5200'	0.8%	1560 m	1.5 min	1.48 min
	24,500'				

9.05 min 7.43 min
16.48 min

4.6 mile Trip Loaded

9.2 mile Round Trip

Clay = 2300 ³/cy loose.

FIXED TIMES - Loading -

900 7 cy Bucket 3 passes to load
.5 min/cycle = 7.5 minutes

1.5 minutes to load x 8 trucks = 12 minutes
Cycle is 18 minutes to 6 minutes to spread

Dump → using belly dumps → Continuous

OFF ROAD application 22 cy/1000

Cycle time = 18 minutes/truck

50 minutes hr = 2.7 cycles/hr

22 cy/cycle x 2.7 cycles/hr x 8 trucks
= 475.2 cy/hr.

Cell 2 = 118,000 cy Clay = 27 hrs Loose + haulage + Dicer
(Dicer: Rpr 500 cy/hr / 50 =)

141,250 Lcy = 297 hrs (8 trucks) Spreading + compacting to place
on material haulage.

TRUCKS 287 x 1 = 287 hrs
Dicer 300 x 1 = 300 hrs
Loose 230 x 1 = 230 hrs
Gravel 230 x 1 = 230 hrs
NN 280 x 1 = 280 hrs
Compaction 300 + 20

450 & Load time

2376 hrs

Excess to 500 08 + R

297 = 300

297 = 300 + 20

297 = 300

300 + 20

22

27

INTERNATIONAL URANIUM (USA) CORP.
COST ESTIMATE

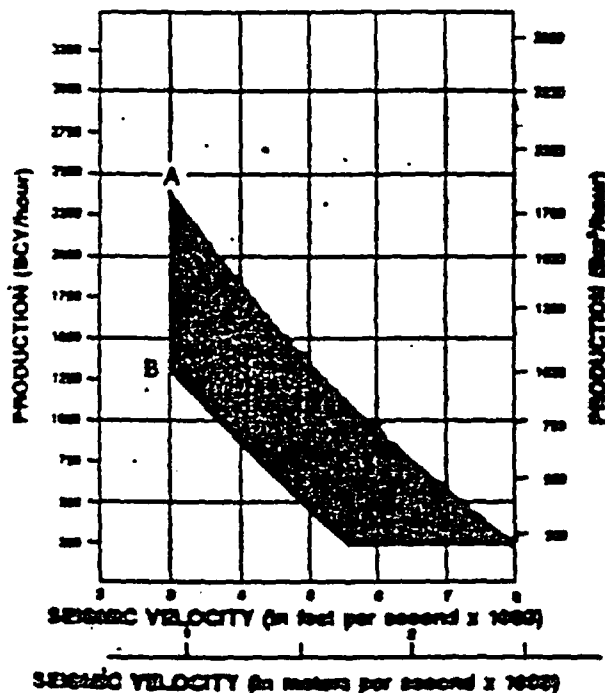
PROJECT... WHITE MESA BELL Date..... Calc by..... Sheet..... of.....

CLAY PRODUCTION COSTS
- SECTION 16 SOURCE -

1). CLAY PRODUCTION

- CLAYS WILL BE RIPPED FROM SOURCE @ SECTION 16
- APPROX 400 VERTICAL FEET OF BOWEN BASIN EXPOSURE
- FROM CAT HAND BOOK ---
MAX SEISMIC VELOCITY OF CLAY 2 6000 FT/SEC

DSL WITH SINGLE SHANK



KEY
A - IDEAL
B - AVERAGE

- BASED ON THE ABOVE, DB CAT SHOULD BE ABLE TO PRODUCE AT LEAST 250 BCY/HOUR WITH AN AVERAGE OF -

500 BCY/HR

- WE WILL ASSUME THAT THE CAT IS UTILIZED EVERY DAY OF CLAY PRODUCTION FOR RIPPING AND OR DRILLING/BLENDING/PREPARATION.

RECLAMATION OF CELL 3

RECLAMATION OF CELL 3

Dewatering of Cell 3

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Dewatering of Cell 3	hrs	\$0.48	62,400	\$30,000

Total Dewatering of Cell 3

\$30,000

Place Remainder of Bridging (Platform) Lift

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Equipment Operators	hrs	\$17.72	1,402	\$24,836
Cat 637 Scraper	hrs	\$153.11	623	\$95,385
Cat 825 Compactor	hrs	\$71.24	156	\$11,096
Cat D8N Dozer With Ripper	hrs	\$73.76	156	\$11,488
Cat D7 Dozer	hrs	\$62.38	156	\$9,716
Cat 651 Waterwagon	hrs	\$77.13	156	\$12,013
Cat 14G Motorgrader	hrs	\$50.74	156	\$7,902
Equipment Maintenance (Butler)	hrs	\$13.07	1,402	\$18,317

Total Place Remainder of Bridging (Platform) Lift

\$190,753

Place Lower Random Fill (12")

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Equipment Operators	hrs	\$17.72	1,746	\$30,935
Cat 637 Scraper	hrs	\$153.11	776	\$118,810
Cat 825 Compactor	hrs	\$71.24	194	\$13,821
Cat D8N Dozer With Ripper	hrs	\$73.76	194	\$14,309
Cat D7 Dozer	hrs	\$62.38	194	\$12,102
Cat 651 Waterwagon	hrs	\$77.13	194	\$14,963
Cat 14G Motorgrader	hrs	\$50.74	194	\$9,843
Equipment Maintenance (Butler)	hrs	\$13.07	1,746	\$22,816

Total Place Lower Random Fill (12")

\$237,599

Clay Layer

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Equipment Operators	hrs	\$17.72	1,975	\$34,993
Cat 637 Scraper	hrs	\$153.11	0	\$0
Cat 825 Compactor	hrs	\$71.24	375	\$26,716
Cat D8N Dozer With Ripper	hrs	\$73.76	350	\$25,816
Cat D7 Dozer	hrs	\$62.38	0	\$0
Cat 651 Waterwagon	hrs	\$77.13	350	\$26,995
Cat 14G Motorgrader	hrs	\$50.74	375	\$19,026
Cat 980 Loader	hrs	\$68.82	350	\$24,087
5000 Gallon Water Truck	hrs	\$44.26	175	\$7,746
Highway Trucks	hrs	\$45.26	2,800	\$126,726
Truck Drivers	hrs	\$12.74	2,800	\$35,674
Equipment Maintenance (Butler)	hrs	\$13.07	4,775	\$62,397

Total Place Clay Layer

\$390,175

RECLAMATION OF CELL 3

Upper Random Fill

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Equipment Operators	hrs	\$17.72	2,493	\$44,161
Cat 637 Scraper	hrs	\$153.11	997	\$152,646
Cat 825 Compactor	hrs	\$71.24	249	\$17,757
Cat D8N Dozer With Ripper	hrs	\$73.76	249	\$18,385
Cat D7 Dozer	hrs	\$62.38	249	\$15,549
Cat 651 Waterwagon	hrs	\$77.13	249	\$19,224
Cat 14G Motorgrader	hrs	\$50.74	249	\$12,646
5000 Gallon Water Truck	hrs	\$44.26	249	\$11,033
Equipment Maintenance (Butler)	hrs	\$13.07	2,493	\$32,571

Total Place Upper Random Fill

\$323,972

Rock Armor

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Equipment Operators	hrs	\$17.72	939	\$16,637
Cat D7 Dozer	hrs	\$62.38	313	\$19,526
Cat 651 Waterwagon	hrs	\$77.13	313	\$24,141
Cat 14G Motorgrader	hrs	\$50.74	313	\$15,881
Rock Cost Delivered	CY	\$3.70	76,230	\$282,303
Equipment Maintenance (Butler)	hrs	\$13.07	939	\$12,270

Total Place Rock Armor

\$370,758

Quality Control

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Quality Control Contractor	hrs	\$62.00	1,406	\$87,172

Total Quality Control

\$87,172

TOTAL RECLAMATION OF CELL 3

\$1,630,429

Volume Calculation - Cell 3

02/10/99
Updated 02/23/04

1) Area of Cell 3 - 3,234,252 sq ft = 74.25 acres

2) Area of Cell 3 still open as of February 24, 2004 (see Figure A)

900 ft X 1725 ft = 1,552,500

Use 1,552,500 sq ft
35.6 acres

3) Assumptions

- Bridging layer is placed using random fill from piles east and west of Cell 3
- Cell will be graded to Design elevation utilizing finer materials in random fill stockpiles and from "clay" stockpiles.
- Clay will be mined, blended, and hauled from borrow site location in Section 16 - four miles south of the mill area, using belly dump trucks, clay layer on top of Cell only.
- The upper 1 foot of random fill will be placed utilizing the fine random fill and clay stockpiles
- Rock for side armor, top armor and toe aprons will come from an off-site gravel source one (1) mile north of Blanding. Rock will be produced through screening, stockpiled and trucked to the site at the time of use. Belly dump trucks will dump gravel in windrows on the top and sides of the Cell.

4) Bridging Layer (Platform Fill) Remaining to be placed

1,552,500 sq ft X 3 ft. / 27 cubic feet per cubic yard =

172,500 cubic yards

Use **172,500 cubic yards**

5) Bring Platform Fill up to Design elevation (Lower Random)

Assume full area of Cell X one (1) foot thick

3,234,252 sq ft X 1 ft. / 27 cubic feet per cubic yard =

119,787 cubic yards

Use **120,000 cubic yards**

6) Placement of Clay Layer (One (1) foot thick on top of Cell only)

Assume full area of Cell X one (1) foot thick

3,234,252 sq ft X 1 ft. / 27 cubic feet per cubic yard =

119,787 cubic yards

Use **120,000 cubic yards**

Volume Calculation - Cell 3 (con't) page 2

- 7) Upper Random Fill Volume - Top of Cell area
Assume full area of Cell X one (2) foot thick

$$3,234,252 \text{ sq ft} \times 2 \text{ ft.} / 27 \text{ cubic feet per cubic yard} = 239,574 \text{ cubic yards}$$

Use 240,000 cubic yards

- 8) Armor Protection - Top of Cell
Assume full area of Cell X one-half (0.5) foot thick

$$3,234,252 \text{ sq ft} \times 0.5 \text{ ft.} / 27 \text{ cubic feet per cubic yard} = 59,894 \text{ cubic yards}$$

Use 60,000 cubic yards

- 9) Cell 3 North Slope (Slope #6) common with Cell 2

No clay on slopes. Toe apron only at base of long slope or where drainage is directed.

Average height 2 feet
Length 1100 feet

- a) Random fill to reduce slope from 3:1 to 5:1

$$\begin{aligned} \text{First Wedge} \quad [2 \times 2 \times 5] / 2 \times 1100 \\ = 11,000 \text{ cubic feet} / 27 = \end{aligned}$$

407 cubic yards
Use 410 cubic yards

Remaining Random Fill

$$\begin{aligned} [5 \times 5 \times 5] / 2 - (2 \times 2 \times 5) / 2 \times 1100 \\ = 57,750 \text{ cubic feet} / 27 = \end{aligned}$$

2,139 cubic yards
Use 2,200 cubic yards

Total Random Fill North Slope

2,610 cubic yards

- b) Rock Armor 8" thick - 0.67 feet

$$\begin{aligned} [5.67 \times 5.67 \times 5] / 2 - (5 \times 5 \times 5) / 2 \times 1100 \\ = 19,659 \text{ cubic feet} / 27 = \end{aligned}$$

728 cubic yards
Use 730 cubic yards

- c) Toe Apron No rock required

Total Rock Armor Cell 3 north Slope

730 cubic yards

10) Cell 3 South Dike, west end (Slope #7)

Average height 16 feet
Length 1750 feet

a) Random fill to reduce slope from 3:1 to 5:1

$$\text{First Wedge} \quad [16 \times 16 \times 5]/2 - (16 \times 16 \times 3)/2 \times 1750$$

$$= 448,000 \text{ cubic feet} / 27 =$$

16,593 cubic yards
Use 16,600 cubic yards

Remaining Random Fill

$$[19 \times 19 \times 5]/2 - (16 \times 16 \times 5)/2 \times 1750$$

$$= 459,375 \text{ cubic feet} / 27 =$$

17,014 cubic yards
Use 17,100 cubic yards

Total Random Fill North Slope

33,700 cubic yards

b) Rock Armor 8" thick - 0.67 feet

$$[19.67 \times 19.67 \times 5]/2 - (19 \times 19 \times 5)/2 \times 1750$$

$$= 113,351 \text{ cubic feet} / 27 =$$

4,198 cubic yards
Use 4,200 cubic yards

c) Rock Apron at toe of slope

$$[2\text{ft} \times 7\text{ft wide} \times 1750 \text{ long}] / 27 =$$

907
Use 1,000 cubic yards

Total Rock Armor Slope #7

5,200 cubic yards

11) Cell 3 South Dike (Slope #8)

Average height 39 feet
Length 1700 feet

a) Random fill to reduce slope from 3:1 to 5:1

$$\text{First Wedge} \quad [39 \times 39 \times 5]/2 - (39 \times 39 \times 3)/2 \times 1700$$

$$= 2,585,700 \text{ cubic feet} / 27 =$$

95,767 cubic yards
Use 95,800 cubic yards

Remaining Random Fill

$$[42 \times 42 \times 5]/2 - (39 \times 39 \times 5)/2 \times 1700$$

$$= 1,032,750 \text{ cubic feet} / 27 =$$

$$\begin{array}{l} 38,250 \text{ cubic yards} \\ \text{Use } 38,300 \text{ cubic yards} \end{array}$$

Total Random Fill North Slope

$$134,100 \text{ cubic yards}$$

b) Rock Armor 8" thick - 0.67 feet

$$[42.67 \times 42.67 \times 5]/2 - (42 \times 42 \times 5)/2 \times 1700$$

$$= 241,098 \text{ cubic feet} / 27 =$$

$$\begin{array}{l} 8,930 \text{ cubic yards} \\ \text{Use } 8,950 \text{ cubic yards} \end{array}$$

c) Rock Apron at toe of slope

$$[2\text{ft} \times 7\text{ft wide} \times 1700 \text{ long}] / 27 =$$

$$\begin{array}{l} 881 \\ \text{Use } 900 \text{ cubic yards} \end{array}$$

Total Rock Armor Cell 3 South Dike

$$9,850 \text{ cubic yards}$$

12) Cell 3 East Slope (Slope #9)

Average height 4 feet
Length 800 feet

a) Random Fill No existing Dike

$$[(4 \times 4 \times 5) / 2] \times 800 / 27 =$$

$$\begin{array}{l} 1185 \text{ cubic yards} \\ \text{Use } 1,200 \text{ cubic yards} \end{array}$$

Total Random Slope #4

$$1,200 \text{ cubic yards}$$

b) Rock Armor 8" thick - 0.67 feet 14.52 cubic feet per linear foot of dike

$$14.52 \text{ cubic foot per linear foot} \times 800 / 27$$

$$= 430 \text{ cubic feet} / 27 =$$

$$\begin{array}{l} 430 \text{ cubic yards} \\ \text{Use } 450 \text{ cubic yards} \end{array}$$

c) Toe Apron Not required

Total Rock Armor Cell 3 East Slope

$$450 \text{ cubic yards}$$

Volume Summary - Cell 3

	Bridging Layer	Lower Random	Clay	Upper Random	Rock Armor
Top of Cell	172,500	120,000	120,000	240,000	60,000
West (Slope #6)		410		2,200	730
South (Slope #7)		16,600		17,100	5,200
South (Slope #8)		95,800		38,300	9,850
East (Slope #9)				1,200	450
Totals	172,500	232,810	120,000	298,800	76,230

Cell 3 Reclamation

Cat 637 Resource Requirements

	Volume	Route	Yds/hr	%	Equip. Hr.
Cell 3 Bridging Lift					
Tailings Surface	172,500	6	277	100%	622.7
Cell 3 Lower Random Fill					
Tailings Surface	120,000	5	296	100%	405.4
Slope 6	410	5	296	100%	1.4
Slope 7	16,600	4	368	100%	45.1
Slope 8	95,800	5	296	100%	323.6
Slope 9	-	4	296	100%	0.0
Total					775.5
Cell 3 Lower Random Fill					
Tailings Surface	240,000	4	296	100%	810.8
Slope 6	2,200	4	296	100%	7.4
Slope 7	17,100	5	368	100%	46.5
Slope 8	38,300	4	296	100%	129.4
Slope 9	1,200	5	368	100%	3.3
Total					997.4

Cell 3 Rock Armor -- use Highway Trucks

Clay Production Cell 3

(use same assumptions as Cell 2)

Clay Volume = 120,000 Bank Cubic Yards (BCY)
0.8 Swell Factor
= 150,000 Loose Cubic Yards (LCY)

Trucking 475 LCY/hr 8 trucks plus one (1) Loader

150,000 LCY / 475 LCY/hr = 316 hours

use 350 hours

350 X 8 Trucks = 2800 hours

Hours

980 Loader	350
D8N w/ ripper	350
Cat 651 WW	350
Cat 825 Comp.	375
14G Patrol	375
5000 gal WW	175

Rock Armor Production Cell 3

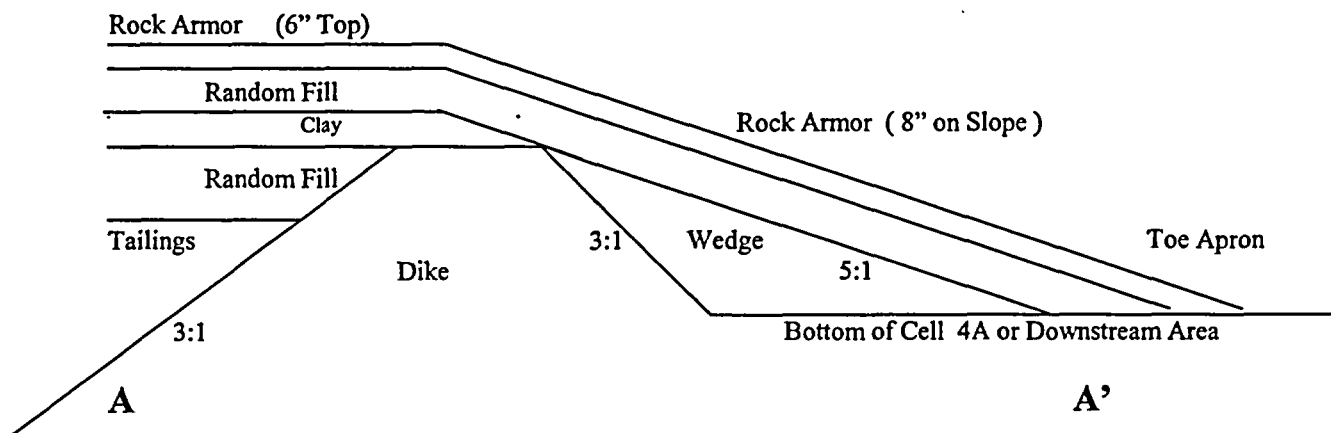
76,230 cubic yards (cy)

38 cy per hour times 8 trucks

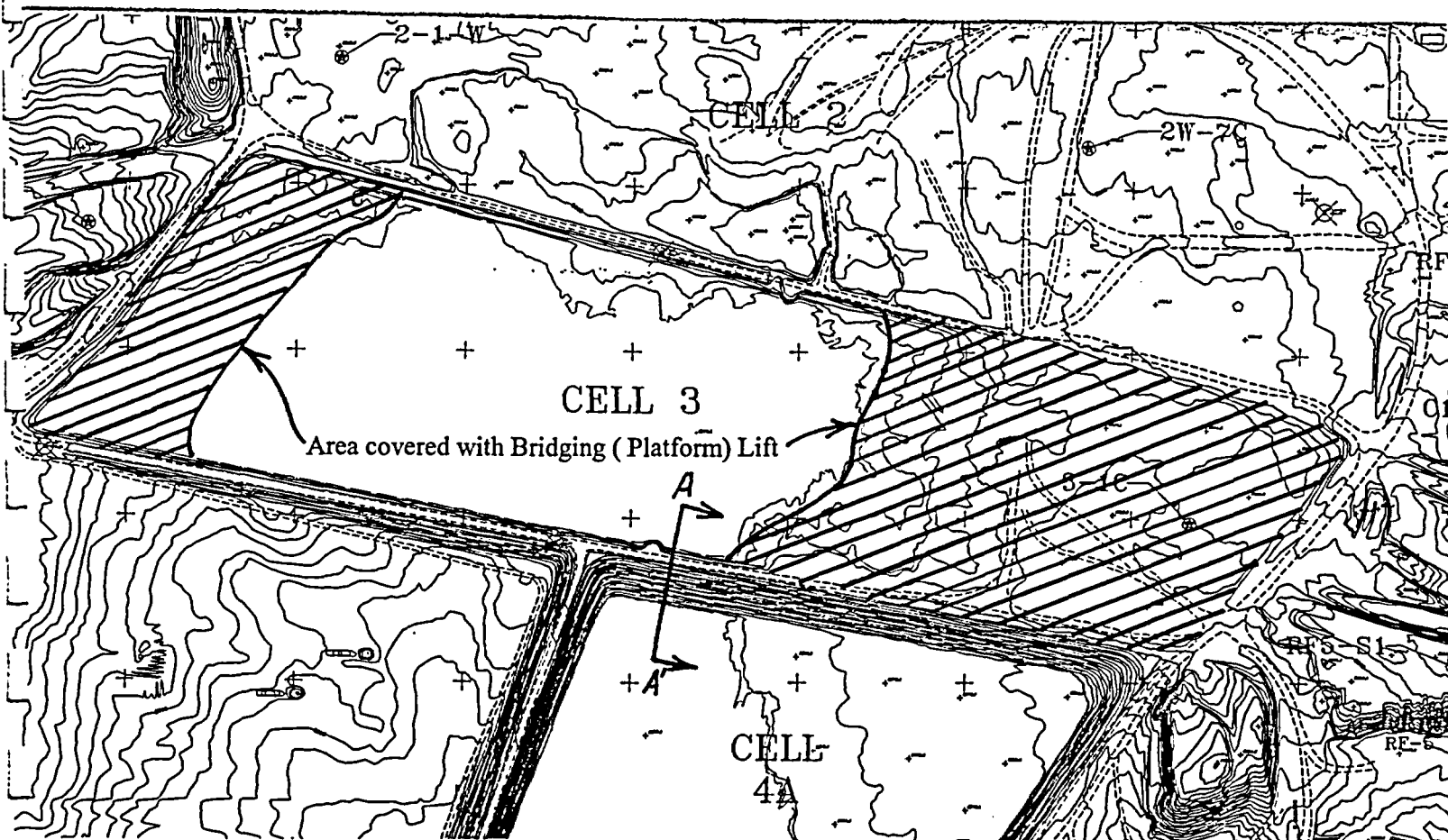
304 cy per hour delivered

Assume 25% extra time for spreading, loading and screen wait

304 / 1.25 243.2 cy per hour 313 Hours



Section A – A' (not to scale) Typical Section through Exterior Dike



CELL 4A CLEANUP

CELL 4A CLEANUP

Dewatering of Cell 4A

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Dewatering of Cell 4A	hrs	\$0.48	11,500	\$5,529

Total Dewatering of Cell 4A **\$5,529**

Remove Fencing

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Cat 988 Loader	hrs	\$104.64	40	\$4,186
Equipment Operators	hrs	\$17.72	40	\$709
Equipment Maintenance (Butler)	hrs	\$13.07	40	\$523
Laborers	hrs	\$10.35	160	\$1,655

Total Remove Fencing **\$7,073**

Remove Liner & Contaminated Material to Cell 3

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Equipment Operators	hrs	\$17.72	303	\$5,368
Cat 769 Truck	hrs	\$68.68	606	\$41,621
Truck Driver	hrs	\$12.74	606	\$7,721
Cat 988 Loader	hrs	\$104.64	303	\$31,706
Equipment Maintenance (Butler)	hrs	\$13.07	909	\$11,878

Total Remove Liner & Contaminated Material to Cell 3 **\$98,295**

Quality Control

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Quality Control Contractor	hrs	\$62.00	325	\$20,150

Total Quality Control **\$20,150**

Work completed to Date, crystal and liner removal, see detail below **-\$49,134**

TOTAL CELL 4A CLEANUP REMAINING **\$81,913**

Estimate of Work Completed to Date - June 2003 to February 2004

Remove Liner & Contaminated Material to Cell 3

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Equipment Operators	hrs	\$17.72	150	\$2,658
Cat 769 Truck	hrs	\$68.68	305	\$20,948
Truck Driver	hrs	\$12.74	305	\$3,886
Cat 988 Loader	hrs	\$104.64	150	\$15,696
Equipment Maintenance (Butler)	hrs	\$13.07	455	\$5,946

Total Work Completed for Removal of Liner & Contaminated Material to Cell 3 **\$49,134**

Cell 4A Reclamation

Updated 02/20/04

1) Assumptions

- All crystals and liner material are removed and placed in Cell 3
- Average of one (1) foot of clay material under liner will be disposed of in cell 3
- All dike material is un-contaminated and can be utilized for Cell 3 cover as needed, therefore no cost is placed against the removal of the dike material.
- Area of Cell 4A for volume estimates is 1,909,000 sq. feet
- Crystals estimated to be 6" thick over entire area.
- Approximately 50% of liner and contaminated material removed from Cell.
(as of February 2004)

Contaminated Material

$$([1,909,000 \times (0.5 + 1.0)] / 27 \text{ ft}^3 \text{ per cu yd}) \times 0.5 = 53,028 \text{ cubic yards}$$

use 53,000 cubic yards

Based on haulage route #8 profile, production equals 175 cubic yards per truck-hour

$$53000 \text{ yd}^3 / 175 \text{ yd}^3 = 303 \text{ truck hours}$$

151 fleet hours
(2 trucks)

MISCELLANEOUS ITEMS

MISCELLANEOUS ITEMS

Equipment Mobilization

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Butler Machinery Mobilization	LS	\$198,200.00	1	\$198,200
Other Equipment Mobilization	LS	\$650.00	1	\$650

Total Equipment Mobilization

\$198,850

Office Facilities

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Run New Powerline	LS	\$15,000.00	1	\$15,000
Utilities for Offices	months	\$1,000.00	36	\$36,000

Total Temporary Office Facilities

\$51,000

Wheel Wash Facility

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Laborers	hrs	\$10.35	8,320	\$86,084
Construct Wheel Wash Facility	LS	\$50,000.00	1	\$50,000
Facility constructed in 2000				(\$50,000)

Total Wheel Wash Facility

\$86,084

MANAGEMENT/SUPPORT

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Manager/Engineer	hrs	\$50.72	6,240	\$316,485
Radiation Safety Officer	hrs	\$39.63	6,240	\$247,280
Secretary	hrs	\$16.03	6,240	\$100,009
Clerk	hrs	\$13.19	4,866	\$64,167
Environmental Technician	hrs	\$22.32	4,866	\$108,591
Maintenance Foreman	hrs	\$29.08	6,240	\$181,451
Chemist	hrs	\$23.33	2,080	\$48,528
Security	hrs	\$8.59	18,720	\$160,774
Safety Engineer	hrs	\$22.32	4,160	\$92,836
Misc. Materials & Supplies	hrs	\$36.45	6,240	\$227,448
Health Physics Costs	hrs	\$64.81	2,080	\$134,800

Total Management/Support

\$1,682,370

TOTAL MISCELLANEOUS ITEMS

\$2,018,304

ROCK PRODUCTION COST

Assumptions:

Rock is obtained from gravel source north of Blanding, Utah. BLM Public pit
 Rock is processed by screening only, no crushing is required, 1.25 CY of feed for 1 CY of product
 Rock is produced and stockpiled at the site
 Site is 7 road miles from the mill; 6 miles of which is paved public highway
 Rock will be hauled in 22 CY bellydump trucks, contract haulers (\$58.00/hr)
 Rock will be dumped in windrows on Tailings Cells by trucks, spread by grader, and compacted by D7 Dozer
 Trucks can average 30 MPH (1.75 rounds/hr)

	Product Required (CY)	Reject Factor	Material Feed to Plant (CY)	Plant Throughput (CY/hr)	Plant Operating Hours
Material fed to plant	146,000	25.0%	182,500	122	1,500

PRODUCTION OF RIPRAP

Resource Description	Units	Cost/Unit	Task Units	Task Cost
Equipment Operators	hrs	\$17.72	2,340	\$41,460
Laborer	hrs	\$10.35	1,500	\$15,520
Cat D8N Dozer With Ripper	hrs	\$73.76	365	\$26,922
Cat 980 Loader	hrs	\$68.82	1,975	\$135,917
Screening Plant w/conveyors*	hrs	\$46.59	1,500	\$69,886
Contract Highway Trucks - Bellydumps**	hrs	\$58.00	3,800	\$220,400
Equipment Maintenance (Butler)	hrs	\$13.07	2,340	\$30,578

Total Production of RipRap \$540,683

RIPRAP COST PER CUBIC YARD DELIVERED

\$3.70

* Cost Quoted from Mr. Don Jones, Power Motive Corporation, Denver, Colorado updated March 1, 2004
 \$9,600 per month, 176 hours per month for one month, \$8,200 per month for more than one month

** Cost quoted from Dennis Cosby, Cosby Trucking, Inc., Blanding, Utah, Updated Feb. 21, 2003
 (includes ownership expense, fuel, maintenance and operator)

Record of Telephone Call

Project: White Mesa, Rec. Plan Costs by: MR

Page 1 of 1

Call to: Dennis Cosby, Cosby Trucking
Company: _____
Phone No: (435) 678-2890
Date: 02-23-04

Subject: Update Highway Truck Rates

Notes:

Belly dump loads - \$65 / hr for single load
long term job use \$58⁰⁰ / hr.
normal payment terms
lower rates for quick payment, less than 10 days
Rates include operator, fuel & maint.

Comments:

Record of Telephone Call

Page 1 of 1

Project: White Mesa Rec. Plow Costs by: JSR

Call to: Don Jones
Company: Power Equipment
Phone No: (303) 355-5900
Date: 02-27-04

Subject: Screen Rental - Rip Rap Production

Notes:

Screen Rental
Rip Rap Production

Screen IT Model 4x10

Telecon w/ Don Jones - estimate costs by
approximate 2% -

last year cost \$8,000/mo $\times 1.02 = \$8,160^{\infty}$

Use \$8,200/month.

See attached fax confirmation from 2003

Comments:

POWER MOTIVE CORP

FAX Transmission

To: *Harold ROBERTS*
Company: *INTERNATIONAL URANIUM*
From: TERRY BERG

Date: *2/24/03*
C.C.
FAX #: *303-389-4,25*

*CONFIRMATION OF PHONE QUOTE TO
BOB H.*

CEC SCREEN-IT, 4x10

*1st MONTH RENTAL RATE, INCLUDING
'DELIVERY TO & PICK UP FROM
BLANDING, UTAH ... * 9,450.-
EACH ADD'L MONTH ... * 8,000.-*

THANKS FOR REMEMBERING US

T. Berg

VOICE: 303-355-5900 FAX: 303-388-9328

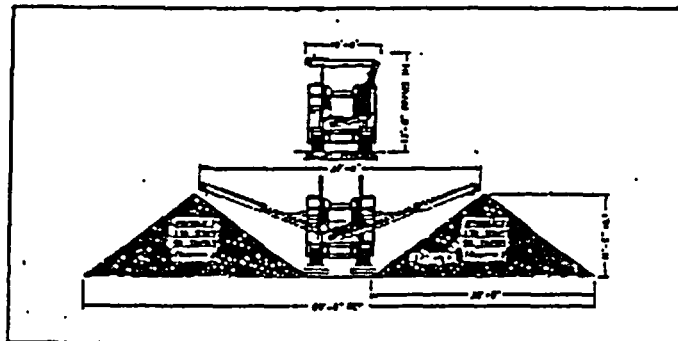
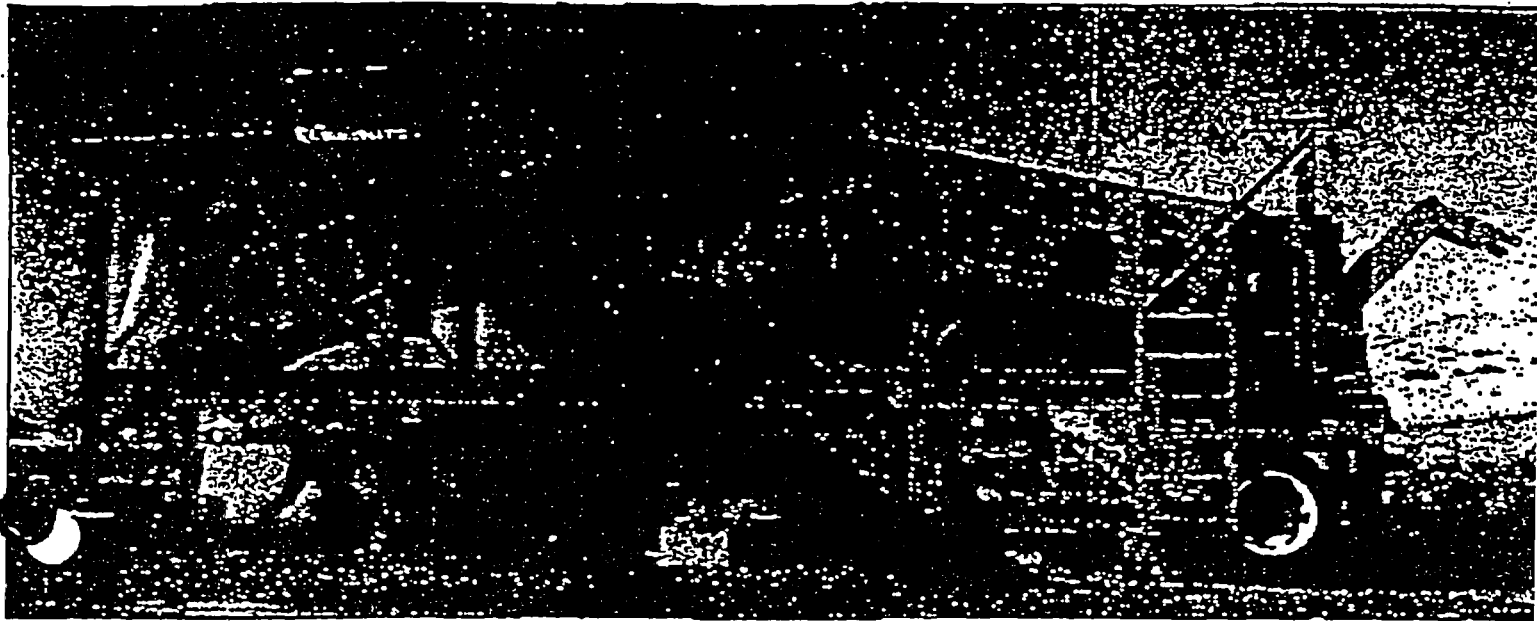
5000 VASQUEZ BLVD, DENVER, CO 80216

CEC

Construction Equipment Co.

SCREEN-IT 4 X 10

2 of 7



TRANSPORT

Height: 13'6" Fifth Wheel Pull
Width: 10'0" Spring Suspension, air brakes
Length: 39' Lights, oil filled hubs

ENGINE

4 cylinder Deutz; 46 HP - Air Cooled
65 gallon fuel tank

OPTIONS

4 individual jacking legs
Shredder
Grizzly dump
Stacking Conveyors
Ball decks

HOPPER

5.5 cu. yard charging hopper
Height to load 12'3"
Side Loading width 12'0"

SCREEN

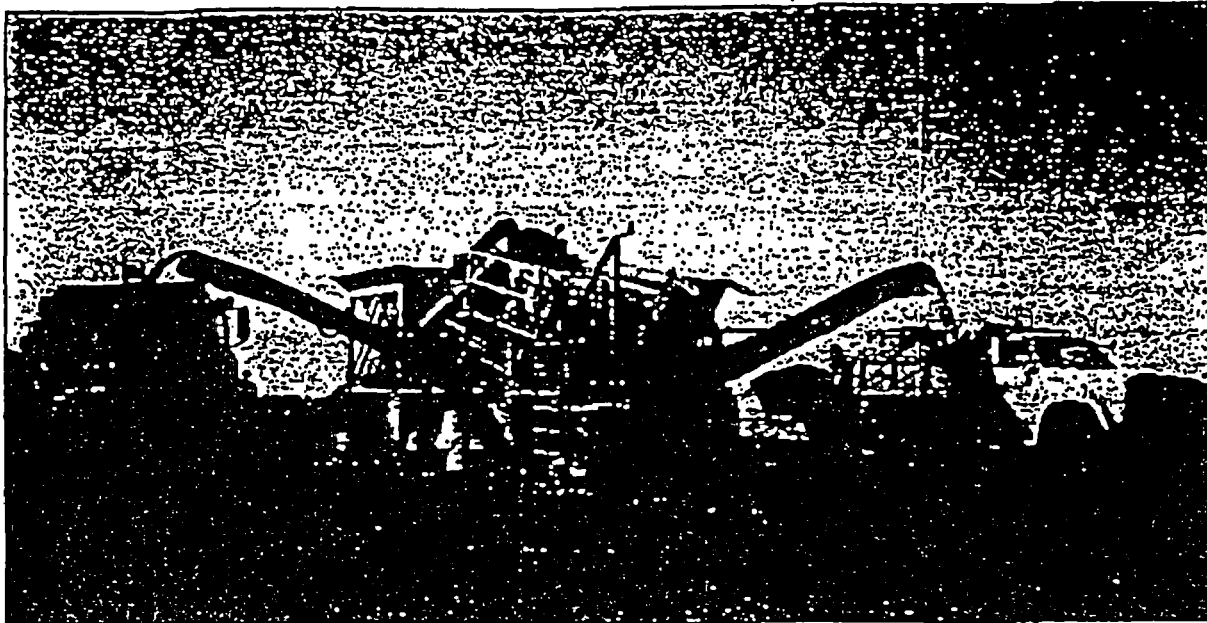
4 x 10; 2 Deck Screen
Hydraulic drive 5/8" Throw
Rubber Spring Suspension

CONVEYORS

36" wide feed conveyor
36" wide under screen conveyor
24" side discharge conveyor
24" rear discharge conveyor

Diesel Hydraulic-Self Contained Portable and Easy to Set Up

3 of 7



High Production Screens Sand and Gravel



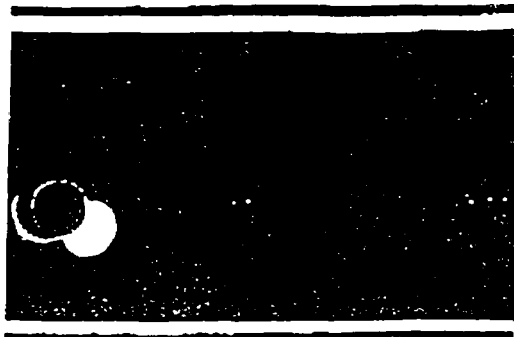
Conveyors Can Load Directly Into Truck



Construction Equipment Co.
18650 S.W. Pacific Hwy
Tualatin, OR 97062
503-692-9000
Fax 503-692-6220

Area Dealer

POWER MOTIVE
5000 VASQUEZ BLVD.
DENVER, CO 80216
PHONE: (303) 355-5900
FAX: (303) 388-9325



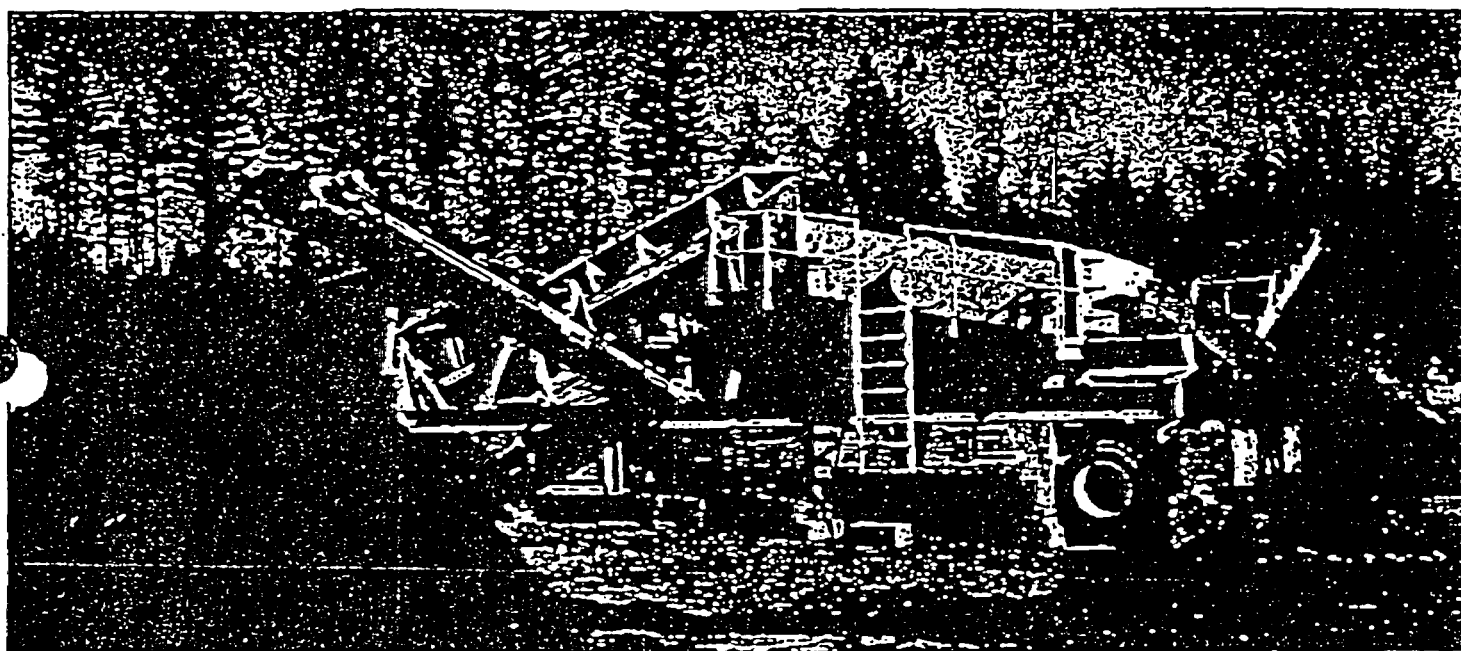
Construction Equipment Co.

SCREEN IT - Series II

Highly Portable - All Hydraulic Setup

Produces Three Different Products

4 of 7



SCREENS COMPOST 120-140 YARDS PER HOUR
SCREENS GRAVEL UP TO 600 TONS PER HOUR

**SCREENS: LOG YARD WASTE, COMPOST, BARK, TOP SOIL,
SAND & GRAVEL, TRASH, C & D, STUMPS, CONCRETE,
ROCK AND MANY RECYCLE MATERIALS**

Patent #5234564

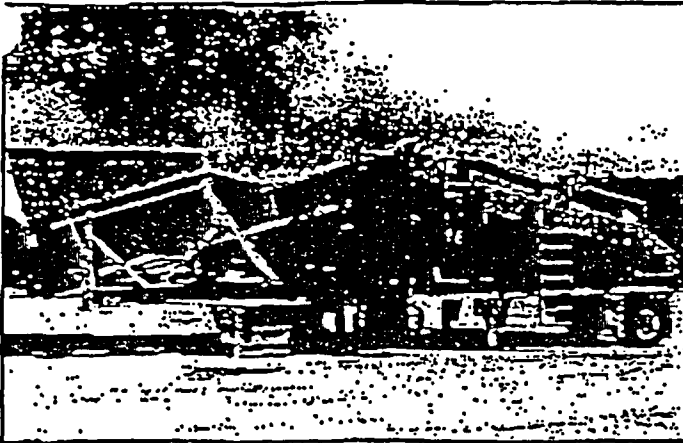


Construction Equipment Co.
P.O. Box 1271
Lake Grove, Oregon 97035
503-635-4427
Fax 503-635-7819

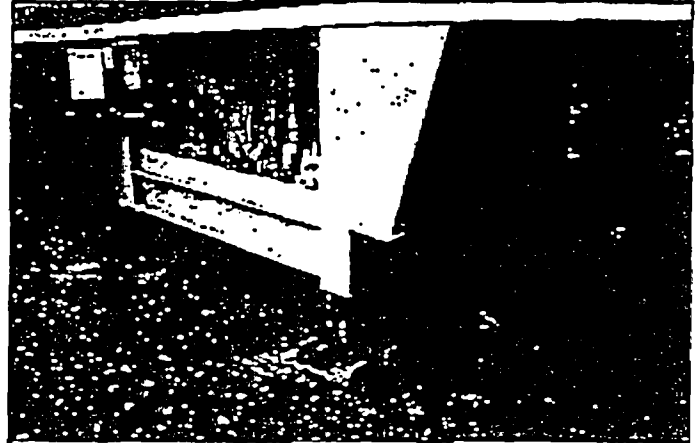
Area Dealer

ALL HYDRAULIC FOLD AND SETUP

5 of 7



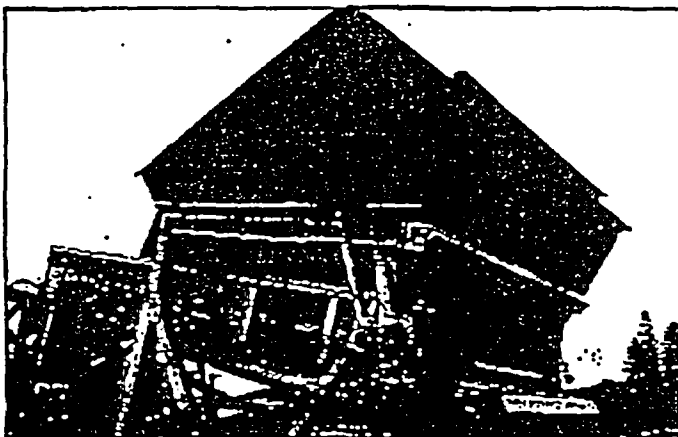
Travel position of the SCREEN IT in which feed conveyor and hopper hydraulically slide back and lower down to transportation height, while hopper wings fold in.



Hydraulic jacking legs are standard for cantilever style blocking, but four (4) individual jacking legs can be an option.



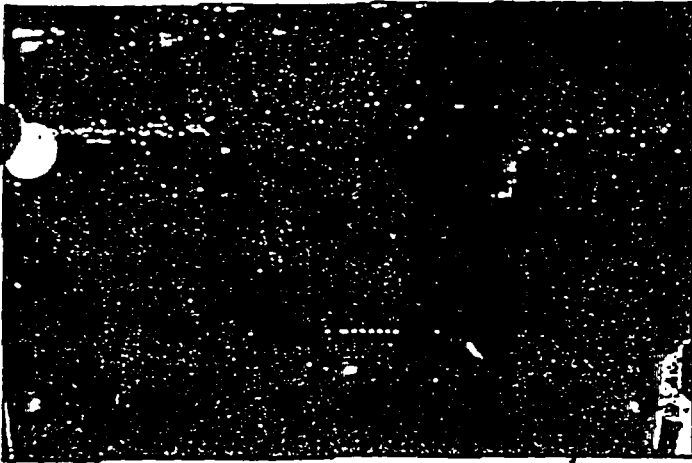
Side and rear discharge conveyors hydraulically fold out to the height of 14'.



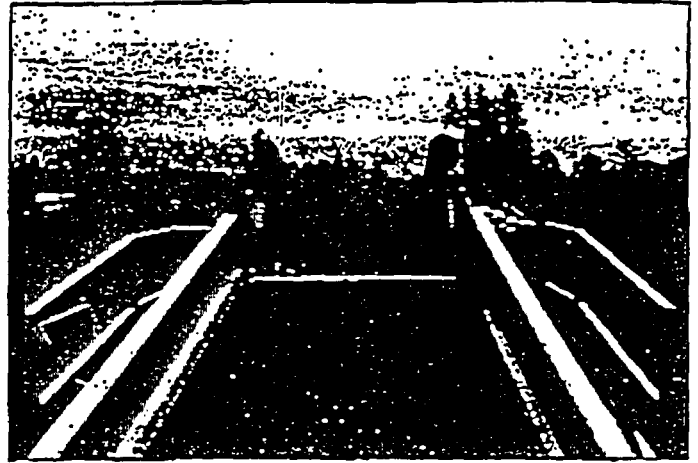
Feed conveyor moves up and forward hydraulically, while the hopper wing walls extend for operation.



Feed conveyor hydraulically moves back and down for transport.



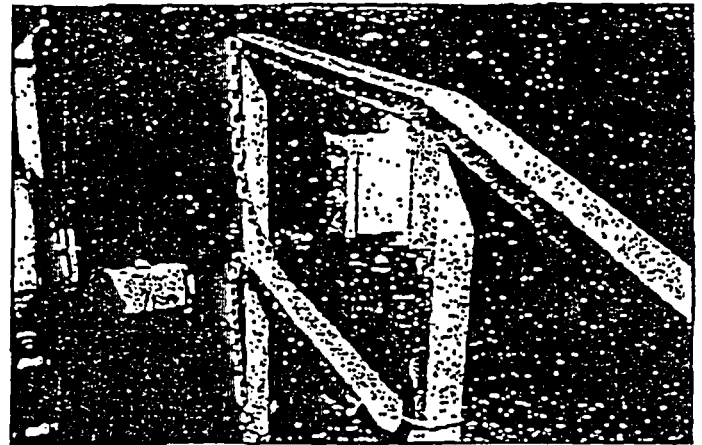
The charging hopper folds out to the width of 14' while in its working position.



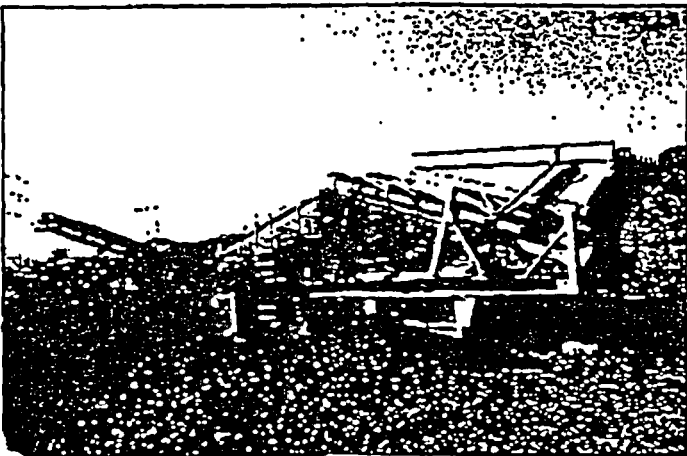
A 48" wide variable feed conveyor with 20" rubber lagged head pulley feeds a 5 x 12 2 Deck screen.



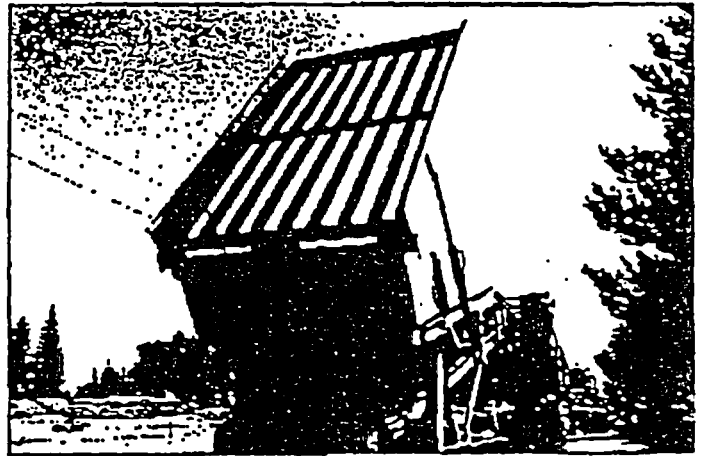
Control panel and hydraulic controls are all located in turnkey area. Powered by a Deutz 4 cylinder, 70 HP diesel engine.



Actuator switch to control speed of feed conveyor is located on the catwalk platform along with kill switch. Actuator switch also located at control panel.



The SCREEN IT has an optional 14 foot long by 8 foot wide hydraulic dumping grizzly. An operator controlled remote dumping system is also available.

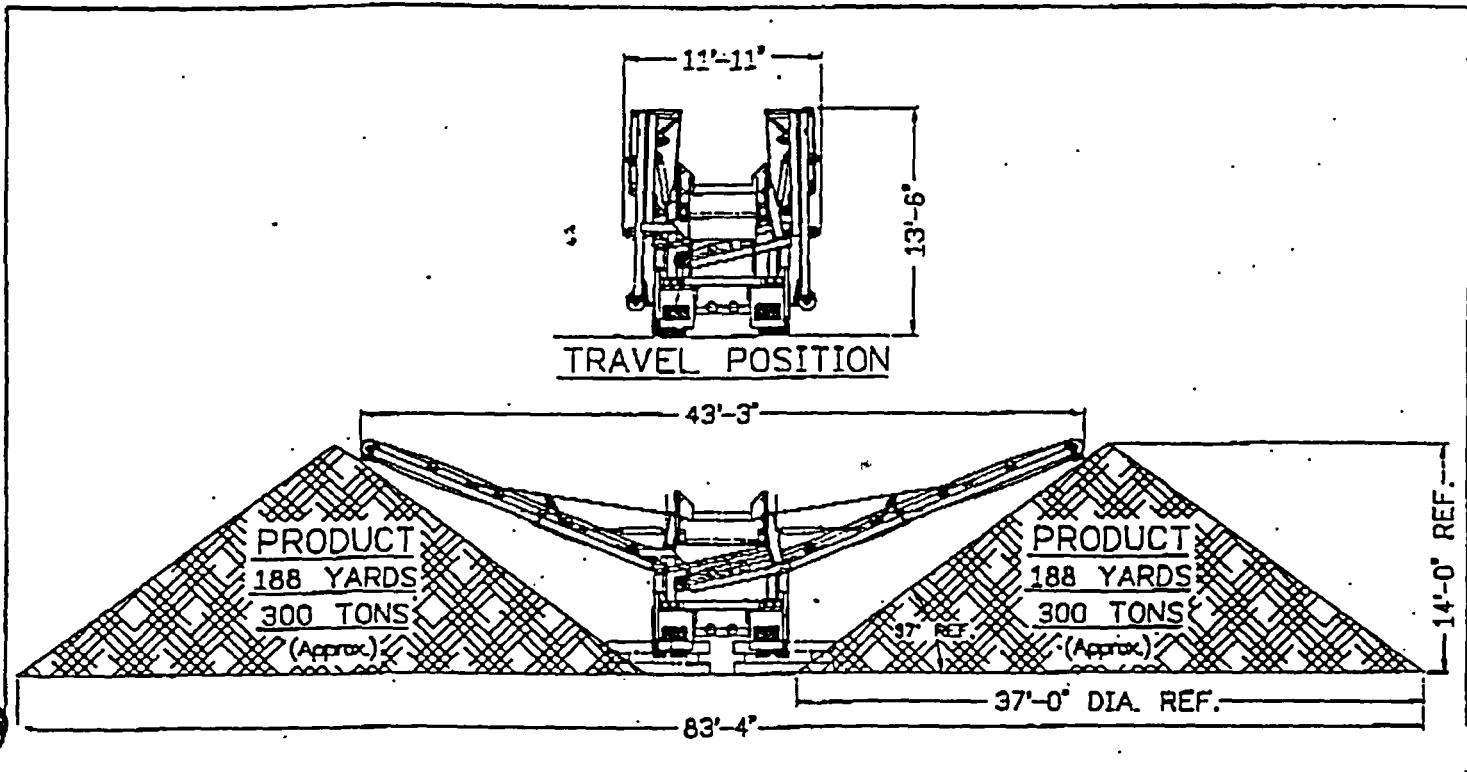


The optional grizzly dumps to the rear of the plant.

SCREENING,

Topsoil To 250 yds./hr.
Sand & Gravel To 600 Tons/hr.

7 of 7



HYDRAULIC DRIVE

TRANSPORT

Height: 13' 6" Fifth wheel pull
Width: 11' 11" Spring suspension, air brakes
Length: 43' 0" Lights, oil filled hubs
Weight: 38,600 Transport speed 65 mph

HOPPER

14.5 cu. yard charging hopper
Height to load 13' 6"
Width at rear 14' - Working position
Width at rear 8' - Travel position

ENGINE

4 cylinder Deutz
70 HP • Air Cooled
65 gallon fuel tank
110 gallon hydraulic tank

SCREEN

5 x 12, 2 Deck with step deck
Hydraulic drive with 3/8" to 5/8" throw
Rubber spring suspension

OPTIONS

4 individual jacking legs
Shredder
Grizzly Dump
Stacking conveyors
79 HP Turbo Diesel (Water Cooled)
98 HP Turbo Diesel (Air Cooled)

CONVEYORS

48" wide feed conveyor 23' 10" long
42" wide under screen conveyor
30" side discharge conveyor 18' 4" long
30" rear discharge conveyor 18' 4" long

EQUIPMENT COSTS

WHITE MESA MILL RECLAMATION COST HOURLY EQUIPMENT COSTS 2004 DOLLARS

Actual equipment rates quoted from Butler Machinery 12 month rental period
February 24, 2004

	Units	RATE		MTCE	FUEL	FUEL @	TOTAL	Mob/Demob	Mob/Demob	Operating Hrs
		MONTHLY	HOURLY	EXPENDABLES	USAGE	\$0.846	COST	per machine	Totals	per Month
637E Scraper	4	22,900	130.11	2.70	24.0	20.29	\$153.11	\$15,500.00	\$62,000.00	704
D8R Dozer	1	11,400	64.77	1.80	8.5	7.19	\$73.76	\$10,300.00	\$10,300.00	176
D7R Dozer	1	9,700	55.11	1.35	7.0	5.92	\$62.38	\$9,100.00	\$9,100.00	176
825G Compactor	1	10,200	57.95	1.45	14.0	11.84	\$71.24	\$9,500.00	\$9,500.00	176
980 G Loader	1	10,500	59.66	1.55	9.0	7.61	\$68.82	\$9,300.00	\$9,300.00	176
988 F Loader	1	16,200	92.05	2.45	12.0	10.15	\$104.64	\$11,200.00	\$11,200.00	176
769D Haul Truck	4	10,300	58.52	2.55	9.0	7.61	\$68.68	\$9,600.00	\$38,400.00	704
365BL Excavator	1	14,800	84.09	3.25	13.0	10.99	\$98.33	\$17,500.00	\$17,500.00	176
651 Water Wagon	1	10,500	59.66	2.25	18.0	15.22	\$77.13	\$10,400.00	\$10,400.00	176
5000 gal Water Truck	1	6,100	34.66	1.15	10.0	8.46	\$44.26	\$4,400.00	\$4,400.00	176
14H/Ripper Motor Grader	1	7,900	44.89	1.20	5.5	4.65	\$50.74	\$7,300.00	\$7,300.00	176
16H/Ripper Motor Grader	1	11,100	63.07	1.35	8.5	7.19	\$71.60	\$8,800.00	\$8,800.00	176

\$198,200.00 3,168

Equipment Rental Rate Quoted by WorldWide Rental Services (02/26/2004) for Cat 330 Excavator with Demo-Pro 900 Shear

Cat 330 w/ Shear 16,000.00 90.91 17.40 12.5 10.57 \$118.88

\$650.00

Small tools allocation - Demolition -
\$1.25/mechanic labor hour for
oxygen/acetylene, expendables

\$1.25

Total Equipment Mobilization

\$198,850.00

	Monthly Maintenance Flat Rate	Planned Operating Hours/month	Availability Factor	Maintenance Cost per Operating Hour
Butler Equipment Maintenance Cost	\$38,500.00	3,168	0.93	\$13.07

Crane Rental Rates

	RATE		MTCE	FUEL	FUEL @	TOTAL
	MONTHLY	HOURLY	EXPENDABLES	USAGE	\$0.846	COST
65 ton Hydraulic Crane	8,000	45.45	2.05	15.0	12.68	\$60.19
30 ton Hydraulic Crane	4,900	27.84	2.05	10.0	8.46	\$38.35

Rental Rates updated from Crane Services, Inc. 12/12/2003

North Central Rental & Leasing
A subsidiary of Butler Machinery Company

3401 33rd Street Southwest
Po Box 9559
Fargo, ND 58106-9559
Phone (701) 232-0033
Fax (701) 298-1717

February 24, 2004

International Uranium Corporation
ATTN: Harold Roberts
E-Mailed to hroberts@intluranium.com

Dear Harold:

Thank you for the invitation to quote International Uranium Corporation (IUC) the equipment needed for their mining project in Blanding, Utah. North Central Rental & leasing, (NCRL) respectfully submits our proposal for a maintained fleet of Caterpillar machines.

Listed on Attachment A, you will find the models, quantities, monthly rental rates, hours allowed per month, excess hour charge, guaranteed number of months rates are based upon, total freight charges and the maintenance rate per hour for materials only.

All rates shown on Attachment A do not include any state, local, property or any other taxes that may be applicable.

Rates are based upon electric hour meter readings that are attached to the dash of each machine. Rates are based on 176 hours of use each month. Excess hour charges, if any, will be calculated and invoiced at the end of the project. There would be no credit issued for any hours under the allowed during the term of this proposal. If IUC elects to double shift machines, then NCRL would invoice those hours at the end of each month. (To figure the double shift rates, take the excess hour rate shown on Attachment A times the number of hours).

Rates are based upon a minimum guarantee of 12 months and a package deal.

Maintenance:

The maintenance rates per hour listed on Attachment A includes the material part items only, such as air, oil, and fuel filters, lubricant oils, grease, anti-freeze, batteries, fan belts, lights and make-up oils. NCRL would invoice IUC actual hours used on machines at the end of each month. Our monthly maintenance charge would be \$38,500.00, which includes our labor, specialized lube trucks, support vehicles and equipment, specialized tooling, scheduled oil sampling, parts trailers and inventories, mileage and travel expense.

Maintenance (cont.)

NCRL will provide two (2) full-time maintenance technicians on site fifty -(50) hours per week on a schedule to be determined, Monday through Friday. IUC would have to schedule the machines available for a time frame yet to be determined adequate for NCRL maintenance personnel to perform the required maintenance. NCRL would invoice IUC for the monthly maintenance charge at the beginning of each month.

Repairs:

NCRL would be responsible for all repairs including parts and labor on our machines other than failures caused by damages or mis-use. Repairs include items as minor as starters, alternators, water pumps, hydraulic hoses, etc. to the major items such as engines, transmissions, differentials, brakes, hydraulic pumps and cylinders, etc. If time permits and IUC requests NCRL's technician to perform repairs or maintenance on their machines, our hourly charge would be \$64.00 per hour for standard time, \$81.00 per hour for overtime and \$95.00 per hour for Sundays and holidays plus materials.

Freight:

Freight charges include delivery and return, assembly, and disassembly of equipment.

IUC's Responsibilities Include:

Operators. Provide the operators as needed to operate machines as stated in Caterpillar's operating guide. NCRL will provide, at no expense to IUC, qualified training instructors for the purposes of training operators. This training would take place on the jobsite at the initial start up of the job and would include classroom, walk around, and in iron demonstrations.

Fuel. Supply and fill all fuel for equipment including NCRL's service vehicles.

Damages. This includes glass breakage, bent handrails, stepladders, fenders, etc. NCRL's normal policy for repairing damages to rental machines is to repair them when the rental period is completed, however, if the damaged item is of a safety concern, we would repair the damages as soon as possible after they occurred. An itemized list of the parts and labor required would be provided to IUC prior to starting the repair, and invoiced at current list prices plus freight upon completion.

February 24, 2004
International Uranium Corporation
Page 3

Undercarriage and Tires: IUC would be responsible for all tire wear including tire damages on the machines with an asterisk listed on Attachment A. Equipment would have to be returned with same brand and model tires as when delivered, or prorated accordingly by percentage of tire wear and condition at termination of rental period.

Upon delivery of machines, a representative of NCRL/BMC, a representative of IUC and a representative from an independent tire dealer or manufacturer would jointly verify in writing the condition, percentage of wear, and tire value. Upon termination of rental, we would again have the representatives mentioned above determine the condition, percentage of wear, and tire values. Any differences noted, would then be charged or credited to IUC including both materials and labor.

Undercarriage wear on all track type machines would be NCRL's expense.

Ground Engaging Tools:

IUC would be responsible for all parts relating to ground engaging tools (G.E.T.), i.e. cutting edges, ripper tips and protectors, bucket tips and adapters, edges between adapters, wear plates on bottom of buckets and all mounting hardware. Butler would install these items on an as needed basis at the current Caterpillar list price plus freight at no additional labor costs. All machines would be delivered with new G.E.T. items and are to be returned with new.

We wish to thank IUC and you for giving us the opportunity to present our proposal and for all the consideration we receive.

Sincerely yours,

North Central Rental & Leasing
Butler Machinery Company

Oscar D. Swenson

Rental Fleet Marketing Manager

ODS: lmc
Attachment

cc: Joel Nikle, Rental Fleet Manager
Joyce Wittkopp, Asst. Rental Fleet Manager

ATTACHMENT A
INTERNATIONAL URANIUM CORPORATION
EQUIPMENT NEEDED FOR JOB IN BLANDING, UTAH
FEBRUARY 24, 2004

					MINIMUM GUARANTEED	TOTAL**	
		MONTHLY RENTAL RATE	HOURS ALLOWED PER MONTH	EXCESS HOUR CHARGE	NUMBER OF MONTHS RATE BASED UPON	FREIGHT CHARGES TO & FROM	MAINTENANCE RATE PER HOUR
*637G	4	\$22,900 EA.	176 EA.	\$65 EA.	12 EA.	\$15,500 EA.	\$2.70 EA.
D9R/RIPPER	1	14,000	176	40	12	11,400	2.10
D8R/RIPPER	1	11,400	176	33	12	10,300	1.80
D7R/RIPPER	1	9,700	176	28	12	9,100	1.35
825G	1	10,200	176	29	12	9,500	1.45
980G	1	10,500	176	30	12	9,300	1.55
*988G	1	16,200	176	46	12	11,200	2.45
*769D	4	10,300 EA.	176 EA.	30 EA.	12 EA.	9,600 EA.	2.55 EA.
365BL	1	14,800	176	42	12	17,500	3.25
10,000 GALLON WATER WAGON	1	10,500	176	30	12	10,400	2.25
5,000 GALLON WATER WAGON	1	6,100	176	18	12	4,400	1.15
14H/RIPPER	1	7,900	176	23	12	7,300	1.20
16H/RIPPER	1	11,100	176	32	12	8,800	1.35
* PLUS TIRE WEAR							
** INCLUDES ASSEMBLY AND DISASSEMBLY							

637 SCRAPER EFFICIENCY

NOMINAL CAPACITY

31

HAUL ROUTE	TRAVEL TIME	FIXED TIME	EFFICIENCY	MINUTES PER TRIP	TRIPS/ HOUR	YARDS/ HOUR
1	3.90	1.20	85%	6.0	10.0	310
2	3.25	1.20	85%	5.2	11.5	355
3	4.30	1.20	85%	6.5	9.3	287
4	3.10	1.20	85%	5.1	11.9	368
5	4.15	1.20	85%	6.3	9.5	296
6	4.50	1.20	85%	6.7	8.9	277
7	3.75	1.20	85%	5.8	10.3	319

CAT 637 SCRAPER

TRAVEL TIMES FOR CAT 637 SCRAPERS BASED ON PROJECTED HAUL ROUTES

Haul Segment	Distance Feet	Distance Meters	Rolling Resistance	Grade %	Ave Speed MPH	Time Min
1a	200	67	7.5	0.0	9.1	0.25
1b	500	167	5.0	0.0	12.6	0.45
1c	200	67	3.0	2.5	9.1	0.25
1d	1400	467	3.0	0.0	18.7	0.85
1e	250	83	3.0	0.0	9.5	0.30
1f	250	83	3.0	0.0	11.4	0.25
1g	1400	467	3.0	0.0	21.2	0.75
1h	200	67	3.0	(2.5)	11.4	0.20
1i	400	133	5.0	0.0	13.0	0.35
1j	200	67	7.5	0.0	9.1	0.25
						3.90
2a	200	67	7.5	0.0	9.1	0.25
2b	2150	717	3.0	(0.5)	22.2	1.10
2c	250	83	5.0	0.0	9.5	0.30
2d	250	83	5.0	0.0	11.4	0.25
2e	2250	750	3.0	+0.5	23.2	1.10
2f	200	67	7.5	0.0	9.1	0.25
						3.25
3a	250	83	7.5	0.0	8.1	0.35
3b	3300	1100	3.0	-0.5	23.4	1.60
3c	250	83	5.0	0.0	9.5	0.30
3d	250	83	5.0	0.0	11.4	0.25
3e	3300	1100	3.0	+0.5	25.0	1.50
3f	250	83	7.5	0.0	9.5	0.30
						4.30
4a	350	117	7.5	-3.5	11.4	0.35
4b	1450	483	3.0	0.0	19.4	0.85
4c	250	83	5.0	0.0	9.5	0.30
4d	250	83	5.0	0.0	11.4	0.25
4e	1700	567	3.0	0.0	22.7	0.85
4f	500	167	7.5	+3.5	11.4	0.50
						3.10

CAT 637 SCRAPER

Haul Segment	Distance Feet	Distance Meters	Rolling Resistance	Grade %	Ave Speed MPH	Time Min
--------------	---------------	-----------------	--------------------	---------	---------------	----------

5a	1400	467	7.5	-2.75	15.9	1.00
5b	1350	450	3.0	0.0	19.2	0.80
5c	250	83	5.0	0.0	9.5	0.30
5d	250	83	5.0	0.0	11.4	0.25
5e	2250	750	3.0	0.0	23.2	1.10
5f	700	233	7.5	+5.5	11.4	0.70
						4.15

6a	600	200	7.5	0.0	11.4	0.60
6b	900	300	3.0	-3.3	20.5	0.50
6c	1450	483	3.0	0.0	19.4	0.85
6d	400	133	5.0	0.0	11.4	0.40
6e	400	133	5.0	0.0	11.4	0.40
6f	1450	483	3.0	0.0	22.0	0.75
6g	900	300	3.0	+3.3	17.0	0.60
6h	450	150	7.5	0.0	12.8	0.40
						4.50

7a	750	250	7.5	-1.5	12.2	0.70
7b	1600	533	3.0	0.0	20.2	0.90
7c	350	117	5.0	0.0	11.4	0.35
7d	350	117	5.0	0.0	11.4	0.35
7e	1600	533	3.0	0.0	22.7	0.80
7f	750	250	7.5	+1.5	13.1	0.65
						3.75

769C TRUCK EFFICIENCY

NOMINAL CAPACITY

25

HAUL ROUTE	TRAVEL TIME	FIXED TIME	EFFICIENCY	MINUTES PER TRIP	TRIPS/ HOUR	YARDS/ HOUR
1	3.90	2.50	85%	7.5	8.0	199
2	3.05	2.50	85%	6.5	9.2	230
3	4.00	2.50	85%	7.6	7.8	196

CAT 769 TRUCKS

TRAVEL TIMES FOR CAT 769C TRUCKS BASED ON PROJECTED HAUL ROUTES

Haul Segment	Distance Feet	Distance Meters	Rolling Resistance	Grade %	Ave Speed MPH	Time Min
1a	200	67	7.5	0.0	7.6	0.30
1b	500	167	5.0	0.0	12.6	0.45
1c	200	67	3.0	2.5	9.1	0.25
1d	1400	467	3.0	0.0	18.7	0.85
1e	250	83	3.0	0.0	9.5	0.30
1f	250	83	3.0	0.0	11.4	0.25
1g	1400	467	3.0	0.0	22.7	0.70
1h	200	67	3.0	(2.5)	11.4	0.20
1i	400	133	5.0	0.0	13.0	0.35
1j	200	67	7.5	0.0	9.1	0.25
						3.90
2a	200	67	7.5	0.0	7.6	0.30
2b	2150	717	3.0	(0.5)	24.4	1.00
2c	250	83	5.0	0.0	9.5	0.30
2d	250	83	5.0	0.0	11.4	0.25
2e	2250	750	3.0	+0.5	26.9	0.95
2f	200	67	7.5	0.0	9.1	0.25
						3.05
3a	250	83	7.5	0.0	8.1	0.35
3b	3300	1100	3.0	-0.5	25.0	1.50
3c	250	83	5.0	0.0	9.5	0.30
3d	250	83	5.0	0.0	11.4	0.25
3e	3300	1100	3.0	+0.5	28.8	1.30
3f	250	83	7.5	0.0	9.5	0.30
						4.00
4a	350	117	7.5	-3.5	11.4	0.35
4b	1450	483	3.0	0.0	19.4	0.85
4c	250	83	5.0	0.0	9.5	0.30
4d	250	83	5.0	0.0	11.4	0.25
4e	1700	567	3.0	0.0	22.7	0.85
4f	500	167	7.5	+3.5	11.4	0.50
						3.10

CAT 769 TRUCKS

Haul Segment	Distance Feet	Distance Meters	Rolling Resistance	Grade %	Ave Speed MPH	Time Min
5a	1400	467	7.5	-2.75	15.9	1.00
5b	1350	450	3.0	0.0	19.2	0.80
5c	250	83	5.0	0.0	9.5	0.30
5d	250	83	5.0	0.0	11.4	0.25
5e	2250	750	3.0	0.0	23.2	1.10
5f	700	233	7.5	+5.5	11.4	0.70
						4.15

6a	600	200	7.5	0.0	11.4	0.60
6b	900	300	3.0	-3.3	20.5	0.50
6c	1450	483	3.0	0.0	19.4	0.85
6d	400	133	5.0	0.0	11.4	0.40
6e	400	133	5.0	0.0	11.4	0.40
6f	1450	483	3.0	0.0	22.0	0.75
6g	900	300	3.0	+3.3	17.0	0.60
6h	450	150	7.5	0.0	12.8	0.40
						4.50

7a	750	250	7.5	-1.5	12.2	0.70
7b	1600	533	3.0	0.0	20.2	0.90
7c	350	117	5.0	0.0	11.4	0.35
7d	350	117	5.0	0.0	11.4	0.35
7e	1600	533	3.0	0.0	22.7	0.80
7f	750	250	7.5	+1.5	13.1	0.65
						3.75

Record Of Telephone Call

Project: White Mesa - Rec. Plan

by: AKL

Page 1 of 1

Call to:

Company: Crane Service Inc.

Phone No: _____

Date: _____

Subject: Reclamation Plan - Cost Update

Notes:

Crane Rental - 75 Ton - Bare, no operator.
\$8,000⁰⁰ per month.

See attached invoice for current rental.

Comments:



505 Murry Road SE
Albuquerque, NM 87105-0817
(505) 877-1100
Fax: (505) 877-6900

INVOICE

1903
PER 3

SOLD TO:

INTERNATIONAL URANIUM CORPORAT
INDEPENDENCE PLAZA, SUITE 950
1050 17th STREET, ATTN: AP
DENVER, CO 80265

INVOICE NUMBER

40031

DATE OF INVOICE

November 17, 2003

SALESPERSON

WARIANKA, BOB

Ordered By:

WILLIAM N DEAL

JOB SITE

**BLANDING, UTAH
BLANDING, UT**

CUSTOMER'S ORDER NO.

BL2843

Job: BB-1345

Customer: INT011

TERMS **NET 30 DAYS**

DATE	DESCRIPTION	UNIT PRICE	TOTAL
11/14/2003 to 12/12/2003	BARE RENTAL - 75 TON HT HT 75 Ton Crane Bare Rental 5147 1.00 Months	\$8,000.00	\$8,000.00
Total Invoice:		\$8,000.00	\$8,000.00
1 1/2 % PER MONTH FINANCE CHARGE WILL BE ADDED TO ALL AMOUNTS OVER 30 DAYS . CUSTOMER AGREES TO PAY ALL COSTS OF COLLECTIONS, INCLUDING ATTORNEYS FEES.			
CRANE SERVICE INC. FEDERAL ID # 85-0408665			
02-7828-6192-381 01-0000-2450-802		8,480 <480>	

January 2001 to December 2003

- Fuel Cost Calculation, 36 month running average

Producer Price Index - Commodities #2 Diesel

January 2001	96.7
February	92.4
March	83.5
April	86.4
May	93.1
June	90.2
July	81.6
August	82.0
September	91.6
October	75.9
November	71.3
December	56.2
January 2002	58.9
February	60.0
March	69.7
April	76.9
May	74.7
June	73.3
July	77.6
August	80.4
September	92.3
October	98.7
November	85.5
December	86.8
January 2003	97.6
February	123.8
March	129.4
April	102.3
May	87.9
June	89.8
July	92.7
August	96.6
September	91.1
October	101.1
November	95.9
December	97.9
January 2004	

3043.9

84.55 cents per gallon
off road use



U.S. Department of Labor

Bureau of Labor Statistics

Bureau of Labor Statistics Data

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Data extracted on: February 18, 2004 (5:58:11 PM)

Producer Price Index-Commodities

Series Id: WPU057303 Not Seasonally Adjusted Group: Fuels and related products and power Item: #2 diesel fuel Base Date: 8200													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1993	60.6	60.3	63.1	63.2	63.4	61.6	57.7	55.2	60.8	66.5	63.0	51.2	60.5
1994	51.4	56.6	56.9	54.6	54.8	54.2	56.4	57.4	57.7	58.4	59.5	54.2	56.0
1995	54.0	53.1	55.0	58.2	59.4	56.8	53.7	56.0	58.5	58.8	59.7	60.2	57.0
1996	62.2	59.4	62.6	75.4	74.5	64.9	66.1	66.6	74.7	80.2	77.0	76.0	70.0
1997	73.2	73.1	66.5	66.1	63.6	61.0	57.7	62.1	61.3	64.7	65.8	58.9	64.5
1998	53.9	51.3	47.6	50.0	50.0	45.8	44.7	44.4	48.1	47.3	46.1	39.0	47.4
1999	40.2	38.1	43.2	53.1	53.0	53.5	59.8	65.6	68.8	67.5	71.9	72.7	57.3
2000	76.1	86.1	90.0	84.1	82.8	85.7	89.5	92.1	110.8	110.0	110.4	101.6	93.3
2001	96.7	92.4	83.5	86.4	93.1	90.2	81.6	82.0	91.6	75.9	71.3	56.2	83.4
2002	58.9	60.0	69.7	76.9	74.7	73.3	77.6	80.4	92.3	98.7	85.5	86.8	77.9
2003	97.6	123.8	129.4	102.3	87.9	89.8	92.7	96.6	91.1 (P)	101.1 (P)	95.9 (P)	97.9 (P)	100.5 (P)
P : Preliminary. All indexes are subject to revision four months after original publication.													

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U.S. Bureau of Labor Statistics
 Postal Square Building
 2 Massachusetts Ave., NE
 Washington, DC 20212-0001

Phone: (202) 691-5200
 Fax-on-demand: (202) 691-6325
 Data questions: blsdata_staff@bls.gov
 Technical (web) questions: webmaster@bls.gov
 Other comments: feedback@bls.gov

Record of Telephone Call

Page 1 of 1

Project: White Mesa Rec. Plan Costs by: NRC

Call to: Kelly Klobedanz
Company: Worldwide Rental Services
Phone No: (801) 978-3300
Date: 02-26-04

Subject: Tractor w/ metal shear for
Mill Demo work

Notes: Rates quoted for last year are still good -
no increase.

Cat 330 Tractor w/ Demo Pro 900 shear
6 month⁺ rental → \$16,000 / mo -
Freight included

See attached confirmation from last update

Comments:



Salt Lake City Branch

1450 North Beck Street

Salt Lake City, UT 84116

Office: (801) 978-3300

Fax: (801) 978-3777

Toll Free: (877) WWRS-SLC

DATE: 25-Feb-03

Phone no.: 303/389/4160

Fax No.: 303/389/4125

COMPANY: Int'l Uranium

TO: Harold Roberts

FROM: Mike McDonough

TOTAL PAGES: 1

We are pleased to offer the following rates for a minimal rental period of:

<u>Equipment</u>	<u>Quantity</u>	<u>Freight/one way</u>	<u>Monthly Rate</u>
Cat 330 W/sheer	1	\$650.00	\$18,000.00
6 Month plus rental	1		\$16,000.00

Over 90 day rental freight paid on return

Terms and Conditions:

1. Machine month is defined as cost of one machine per month. If multiple units are required, multiply the base rate times the number of units required.
2. Credit approval will be determined by credit information supplied by the contractor to Worldwide prior to job mobilization.
3. Monthly rate is based on 200 hours usage. Overtime will be billed at 1/2 of the regular hourly rate.
4. Payment terms are Net 30 days.
5. All equipment is subject to availability.
6. Excessive tire wear and ground engaging tool wear to be billed at end of contract.

We look forward to supplying your equipment requirements. Please call if you have any questions.

Thanks For Your Business

Mike McDonough
Branch Manager

LABOR COSTS

Specified Wages

Heavy Construction

2004 Estimated Labor Rates**

13.97%

21.28%

Labor Burden
(FICA, SUI,
FUI, etc.)

Company
Benefits
(medical, life
insure, etc)

Labor Classification	Base Rate	Mandated Fringe	Labor Burden (FICA, SUI, FUI, etc.)	Company Benefits (medical, life insure, etc)	Fringe Costs	Labor Cost/HR
Boiler Makers	\$19.60	\$8.76	\$2.74	no added cost	\$11.50	\$31.10
Millwrights	\$20.82	\$4.28	\$2.91	\$0.15	\$7.34	\$28.16
Ironworkers	\$21.76	\$9.67	\$3.04	no added cost	\$12.71	\$34.47
Carpenters	\$10.81		\$1.51	\$2.30	\$3.81	\$14.62
Cement Masons	\$11.52		\$1.61	\$2.45	\$4.06	\$15.58
Electricians	\$14.52	\$2.71	\$2.03	\$0.38	\$5.12	\$19.64
Ironworkers - Reinforcing	\$11.00		\$1.54	\$2.34	\$3.88	\$14.88
Laborers (including pipelayers)	\$7.65	\$1.60	\$1.07	\$0.03	\$2.70	\$10.35
Pipefitters	\$12.60		\$1.76	\$2.68	\$4.44	\$17.04
<u>POWER EQUIPMENT OPERATORS</u>						
Backhoes	\$10.00		\$1.40	\$2.13	\$3.53	\$13.53
Cranes	\$10.43		\$1.46	\$2.22	\$3.68	\$14.11
Dozers	\$13.10		\$1.83	\$2.79	\$4.62	\$17.72
Graders	\$12.67		\$1.77	\$2.70	\$4.47	\$17.14
Loaders	\$11.26		\$1.57	\$2.40	\$3.97	\$15.23
Scrapers	\$10.00		\$1.40	\$2.13	\$3.53	\$13.53
Trackhoes	\$10.00		\$1.40	\$2.13	\$3.53	\$13.53
Tractors	\$9.42		\$1.32	\$2.00	\$3.32	\$12.74
Truck Drivers	\$9.42		\$1.32	\$2.00	\$3.32	\$12.74

Note: base rates do not include FICA, worker comp, unemployment, or company benefits which increase the cost per hour

** State of Utah - General Decision - Current Update UT20030009, 3 pages, 01/23/2004

LABOR COSTS

<u>Nonspecified Wages</u>	Base Rate	Mandated Fringe	Labor Burden (FICA, SUI, FUI, etc.)	Company Benefits (medical, life insure, etc)	Fringe Costs	Labor Cost/HR
Survey Crew Member	\$10.25	\$0.00	\$1.43	\$2.18	\$3.61	\$13.86
Sample Crew Member	\$10.25	\$0.00	\$1.43	\$2.18	\$3.61	\$13.86
Mechanic (Demolition)	\$10.65	\$0.00	\$1.49	\$2.27	\$3.75	\$14.40
Manager/Engineer	\$37.50	\$0.00	\$5.24	\$7.98	\$13.22	\$50.72
Radiation Safety Officer	\$29.30	\$0.00	\$4.09	\$6.24	\$10.33	\$39.63
Secretary	\$11.85	\$0.00	\$1.66	\$2.52	\$4.18	\$16.03
Clerk	\$9.75	\$0.00	\$1.36	\$2.07	\$3.44	\$13.19
Engineer	\$29.30	\$0.00	\$4.09	\$6.24	\$10.33	\$39.63
Environmental Technician	\$16.50	\$0.00	\$2.31	\$3.51	\$5.82	\$22.32
Safety Engineer	\$16.50	\$0.00	\$2.31	\$3.51	\$5.82	\$22.32
Maintenance Foreman	\$21.50	\$0.00	\$3.00	\$4.58	\$7.58	\$29.08
Security Personnel	\$6.35	\$0.00	\$0.89	\$1.35	\$2.24	\$8.59
Chemist	\$17.25	\$0.00	\$2.41	\$3.67	\$6.08	\$23.33

GENERAL DECISION: UT20030009 01/23/2004 UT9

Date: January 23, 2004

General Decision Number: UT20030009 01/23/2004

Superseded General Decision Number: UT020009

State: Utah

Construction Types: Heavy

Counties: Beaver, Carbon, Daggett, Emery, Garfield, Grand, Iron, Juab, Kane, Piute, San Juan, Sanpete, Sevier, Uintah and Washington Counties in Utah.

HEAVY CONSTRUCTION PROJECTS

Modification Number	Publication Date
0	06/13/2003
1	01/23/2004

BOIL0182-002 04/01/1996

	Rates	Fringes
Boilermaker.....	\$ 19.60	8.76

CARP2834-003 10/01/1998

	Rates	Fringes
Millwright.....	\$ 20.82	4.28

* IRON0027-006 07/01/2003

	Rates	Fringes
Ironworker, Structural.....	\$ 21.76	9.67

SUUT1988-001 03/01/1988

	Rates	Fringes
Carpenter.....	\$ 10.81	
Cement Mason.....	\$ 11.52	
Electrician.....	\$ 14.52	2.71
Ironworker, Reinforcing.....	\$ 11.00	
Laborer (including pipelayers).....	\$ 7.65	1.60
Pipefitter.....	\$ 12.60	

Power equipment operators:

Backhoes.....	\$ 10.00
Cranes.....	\$ 10.43
Dozers.....	\$ 13.10
Graders.....	\$ 12.67
Loaders.....	\$ 11.26
Scrapers.....	\$ 10.00
Tractors.....	\$ 9.42

Truck Driver.....	\$ 9.42
-------------------	---------

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

=====

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

In the listing above, the "SU" designation means that rates listed under the identifier do not reflect collectively bargained wage and fringe benefit rates. Other designations indicate unions whose rates have been determined to be prevailing.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

=====
END OF GENERAL DECISION

LONG TERM CARE CALCULATION

Base Amount (Starting in Dec. 1978)	\$250,000
CPI-U December, 1978	67.7
CPI-U December 2003	184.5

Adjusted Long Term Care = $\$250,000 \times (\text{CPI-U most recent} / \text{CPI-U Dec., 1978})$

Adjusted Long Term Care	\$681,315
-------------------------	-----------

Consumer Price Index (CPI-U)

For All Urban Consumers

U.S. City Average

All Items 1982-84=100

U.S. Department of Labor
Bureau of Labor Statistics

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Average
1950	23.5	23.5	23.6	23.6	23.7	23.8	24.1	24.3	24.4	24.6	24.7	25.0	24.1
51	25.4	25.7	25.8	25.8	25.9	25.9	25.9	25.9	26.1	26.2	26.4	26.5	26.0
52	26.5	26.3	26.3	26.4	26.4	26.5	26.7	26.7	26.7	26.7	26.7	26.7	26.5
53	26.5	26.6	26.5	26.6	26.7	26.8	26.8	26.9	26.9	27.0	26.9	26.9	26.7
54	26.9	26.9	26.9	26.8	26.9	26.9	26.9	26.9	26.8	26.8	26.8	26.7	26.9
55	26.7	26.7	26.7	26.7	26.7	26.7	26.8	26.8	26.8	26.8	26.8	26.9	26.8
56	26.8	26.8	26.8	26.9	27.0	27.2	27.4	27.3	27.4	27.5	27.5	27.6	27.2
57	27.6	27.7	27.8	27.9	28.0	28.1	28.3	28.3	28.3	28.3	28.4	28.4	28.1
58	28.6	28.6	28.8	28.9	28.9	28.9	29.0	28.9	28.9	28.9	29.0	28.9	28.9
59	29.0	28.9	28.9	29.0	29.0	29.1	29.2	29.2	29.3	29.4	29.4	29.4	29.1
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Average
1960	29.3	29.4	29.4	29.5	29.5	29.6	29.6	29.6	29.6	29.8	29.8	29.8	29.6
61	29.8	29.8	29.8	29.8	29.8	29.8	30.0	29.9	30.0	30.0	30.0	30.0	29.9
62	30.0	30.1	30.1	30.2	30.2	30.2	30.3	30.3	30.4	30.4	30.4	30.4	30.2
63	30.4	30.4	30.5	30.5	30.5	30.6	30.7	30.7	30.7	30.8	30.8	30.9	30.6
64	30.9	30.9	30.9	30.9	30.9	31.0	31.1	31.0	31.1	31.1	31.2	31.2	31.0
65	31.2	31.2	31.3	31.4	31.4	31.6	31.6	31.6	31.6	31.7	31.7	31.8	31.5
66	31.8	32.0	32.1	32.3	32.3	32.4	32.5	32.7	32.7	32.9	32.9	32.9	32.4
67	32.9	32.9	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	33.4
68	34.1	34.2	34.3	34.4	34.5	34.7	34.9	35.0	35.1	35.3	35.4	35.5	34.8
69	35.6	35.8	36.1	36.3	36.4	36.6	36.8	37.0	37.1	37.3	37.5	37.7	36.7
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Average
1970	37.8	38.0	38.2	38.5	38.6	38.8	39.0	39.0	39.2	39.4	39.6	39.8	38.8
71	39.8	39.9	40.0	40.1	40.3	40.6	40.7	40.7	40.8	40.9	40.9	41.1	40.5
72	41.1	41.3	41.4	41.5	41.6	41.7	41.9	42.0	42.1	42.3	42.4	42.5	41.8

73	42.6	42.9	43.3	43.6	43.9	44.2	44.3	45.1	45.2	45.6	45.9	46.2	44.4	
74	46.6	47.2	47.8	48.0	48.6	49.0	49.4	50.0	50.6	51.1	51.5	51.9	49.3	1
75	52.1	52.5	52.7	52.9	53.2	53.6	54.2	54.3	54.6	54.9	55.3	55.5	53.8	
76	55.6	55.8	55.9	56.1	56.5	56.8	57.1	57.4	57.6	57.9	58.0	58.2	56.9	
77	58.5	59.1	59.5	60.0	60.3	60.7	61.0	61.2	61.4	61.6	61.9	62.1	60.6	
78	62.5	62.9	63.4	63.9	64.5	65.2	65.7	66.0	66.5	67.1	67.4	67.7	65.2	
79	68.3	69.1	69.8	70.6	71.5	72.3	73.1	73.8	74.6	75.2	75.9	76.7	72.6	1
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Average	
1980	77.8	78.9	80.1	81.0	81.8	82.7	82.7	83.3	84.0	84.8	85.5	86.3	82.4	1
81	87.0	87.9	88.5	89.1	89.8	90.6	91.6	92.3	93.2	93.4	93.7	94.0	90.9	1
82	94.3	94.6	94.5	94.9	95.8	97.0	97.5	97.7	97.9	98.2	98.0	97.6	96.5	
83	97.8	97.9	97.9	98.6	99.2	99.5	99.9	100.2	100.7	101.0	101.2	101.3	99.6	
84	101.9	102.4	102.6	103.1	103.4	103.7	104.1	104.5	105.0	105.3	105.3	105.3	103.9	
85	105.5	106.0	106.4	106.9	107.3	107.6	107.8	108.0	108.3	108.7	109.0	109.3	107.6	
86	109.6	109.3	108.8	108.6	108.9	109.5	109.5	109.7	110.2	110.3	110.4	110.5	109.6	
87	111.2	111.6	112.1	112.7	113.1	113.5	113.8	114.4	115.0	115.3	115.4	115.4	113.6	
88	115.7	116.0	116.5	117.1	117.5	118.0	118.5	119.0	119.8	120.2	120.3	120.5	118.3	
89	121.1	121.6	122.3	123.1	123.8	124.1	124.4	124.6	125.0	125.6	125.9	126.1	124.0	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Average	
1990	127.4	128.0	128.7	128.9	129.2	129.9	130.4	131.6	132.7	133.5	133.8	133.8	130.7	
91	134.6	134.8	135.0	135.2	135.6	136.0	136.2	136.6	137.2	137.4	137.8	137.9	136.2	
92	138.1	138.6	139.3	139.5	139.7	140.2	140.5	140.9	141.3	141.8	142.0	141.9	140.3	
93	142.6	143.1	143.6	144.0	144.2	144.4	144.4	144.8	145.1	145.7	145.8	145.8	144.5	
94	146.2	146.7	147.2	147.4	147.5	148.0	148.4	149.0	149.4	149.5	149.7	149.7	148.2	
95	150.3	150.9	151.4	151.9	152.2	152.5	152.5	152.9	153.2	153.7	153.6	153.5	152.4	
96	154.4	154.9	155.7	156.3	156.6	156.7	157.0	157.3	157.8	158.3	158.6	158.6	156.9	
97	159.1	159.6	160.0	160.2	160.1	160.3	160.5	160.8	161.2	161.6	161.5	161.3	160.5	
98	161.6	161.9	162.2	162.5	162.8	163.0	163.2	163.4	163.6	164.0	164.0	163.9	163.0	
99	164.3	164.5	165.0	166.2	166.2	166.2	166.7	167.1	167.9	168.2	168.3	168.3	166.6	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Average	
2000	168.8	169.8	171.2	171.3	171.5	172.4	172.8	172.8	173.7	174.0	174.1	174.0	172.2	
2001	175.1	175.8	176.2	176.9	177.7	178.0	177.5	177.5	178.3	177.7	177.4	176.7	177.1	
2002	177.1	177.8	178.8	179.8	179.8	179.9	180.1	180.7	181.0	181.3	181.3	180.9	179.9	

2003	181.7	183.1	184.2	183.8	183.5	183.7	183.9	184.6	185.2	185.0	184.5	184.3	184.0	:
% Chg*	2.6%	3.0%	3.0%	2.2%	2.1%	2.1%	2.1%	2.2%	2.3%	2.0%	1.8%	1.9%		

* Percent change from year ago

Note: A recorded message providing the latest CPI data is available by calling (617) 565-2325. For further assistance, contact the Boston office of the Bureau of Labor Statistics at (617) 565-2327.

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