Michael O. Leavitt
Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801
801-359-3940 (Fax)
801-538-5319 (TDD)

FACSIMILE COVER SHEET

DATE: Nov. 17, 1998

NUMBER OF PAGES INCLUDING THIS COVER SHEET: 16

TO: JIM KUIPERS
PHONE (406) 225-9770

FAX NUMBER: (406) 225-9771

FROM: TONY GALLEGOS PHONE (801) 538-5267
Minerals Reclamation and Development Program

PHONE: (801) 538-5291
FAX: (801) 359-3940

SUBJECT: M/035/009 BARNEY'S CANYON MINE
- DOCUMENTS SUPPORTING BOND AMOUNT

REMARKS: HERE IS THE INFORMATION YOU REQUESTED WHILE AT OUR OFFICE. NOTE THAT THE ORIGINAL 1989 ESTIMATE CONTAINED A DETAILED COST/TASK BREAKDOWN (11 PAGES SENT + ~10+ MORE PAGES OF TASK ASSUMPTIONS NOT SENT). AMENDMENTS AFTER THAT WERE BONDED USING ADJUSTED $/ACRE VALUES.

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P.01

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M/035/009

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Minerals Reclamation and Development Program

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SURETY ESTIMATE UPDATE

Last Update 03/08/95

Kennecott Barneys Canyon Mining Company

filename M35-09UP.WQ2

Barneys Canyon Mine M/035/009 Salt Lake County

Prepared by Utah Division of Oil, Gas & Mining

DESCRIPTION:

-This surety update is due to a change in surety company & corporate change
-Kennecott Corporation is now Kennecott Minerals Holding Company
-This reclamation estimate was last adjusted in 1994 on a per acre basis
-The surety amount currently posted is $4,600,000 (1999-$)
-Base amount was $3,812/acre in 1994 dollars
-Total permit disturbance is estimated as 1,071.9 acres
-This estimate escalates the $/acre figure to the year 2000
-The (escalated $/acre) X (total acreage) = total surety amount
-Total disturbed area = 1071.9 ACRES
-Escalation factors through 1993 are actual Means Historical Cost Indices

CALCULATIONS	YR	ESCAL FACTOR	BOND AMOUNT
F = P(1 + i)**n	1990	0.0077	$0
F = Future Sum	1991	0.0127	$0
P = Present Sum	1992	0.0221	$0
i = Escalation Factor	1993	0.0254	$0
n = number of periods	1994	0.0201	$3,812
	1995	0.0201	$3,889
	1996	0.0201	$3,967
Three Yr Average = 2.01%	1997	0.0201	$4,047
Used to Project 5 Yrs	1998	0.0201	$4,128
Into the Future	1999	0.0201	$4,211
From the Year 1995	2000	0.0201	$4,295

Updated $/ACRE (2000-$) $4,295 per acre

multiplied by acreage gives a total of $4,604,300

Updated Surety Amount Rounded (2000-$) $4,604,000

M/035/009

PLAN RECEIVED JUNE 29, 1994
(MARCH 1, 1994 PLAN REVISED JUNE 27, 1994)

6.0 VARIANCE REQUESTS

6.1 Variance Request from Rule R613-004-111.9 Dams and Impoundments

6.2 Variance Request from Rule R612-004-111.6 Slopes

6.3 Variance Request from Rule R613-004-111.7 Highwalls

6.4 Variance Request from Rule R613-004-111.2 Drainages

6.5 Variance Request from Rule R613-004-111.12 and 111.13 Topsoil Redistribution and Revegetation

7.0 RECLAMATION COST ESTIMATE

The previous cost estimate of $3,604 per acre in 1992 dollars was escalated to 1994 dollars by using the consumer price index of 1.027 for 1992 and 1.03 for 1993 resulting in an updated cost of $3,812 dollars per acre. The previously permitted disturbance area was added to the incremental disturbance area for the Melco and NBCS expansion resulting in a total project disturbance area requiring reclamation as follows:

Currently permitted area requiring reclamation	= 769.5 acres
Expansion area requiring reclamation	= 302.4 acres
Total project area requiring reclamation	= 1,071.9 acres

The reclamation cost estimate was adjusted using the Division's current annual escalation factor of 2.10% for 5 years. This results in a multiplier of 1.110 for all 5 years or a reclamation cost of $4,231 per acre in 1999 dollars ($3,812 * 1.110 = $4,231). The existing reclamation bond will be increased to 4.6 million dollars (1,071.9 acres * $4,231 per acre = $4,535,209).

8.0 REFERENCES

JBR Consultants Group, 1988, Notice of Intent to Commence Mining Operations, Kennecott Explorations (Australia) Ltd., Barneys Canyon Project, submitted to Utah Division of Oil Gas and Mining (Revised, September, 1989).

U.S.D.A., Soil Conservation Service, April 1974, Soil Survey of Salt Lake Area, Utah.

APPENDIX C-III

Soil Chemistry Descriptions for Melco North Dump Area

SURETY ESTIMATE REVISION

Kennecott Utah Copper M/035/009

Barneys Canyon Mine Salt Lake County, Utah

Prepared by Utah Division of Oil, Gas & Mining

Last Update 09/08/92

DESCRIPTION:

-This estimate is based on the REVISION preliminary version received 8/28/92

-Reclamation estimate originally calculated in 1988-$ = $2,206,340

-Original estimate in 1988-$ for 629.7 "Reclaimed Acres"

-Surety was posted in 1988 for $2,700,000 in 1993-$

-Escalation factors through 1991 are actual Means Historical Cost Indices

Escalate the original surety amount calculated to current dollars (1992)

CALCULATIONS	YR	ESCAL FACTOR	BOND AMOUNT
F = P(1 + i)**n	1988	0.0181	$2,206,340
F = Future Sum	1989	0.0177	$2,245,392
P = Present Sum	1990	0.0077	$2,262,682
i = Escalation Factor	1991	0.0127	$2,291,418
n = number of periods	1992	0.0127	$2,320,519

"Reclaimed Acreage" (1988 NOI) =	629.7		TOTAL
$ per "Reclaimed Acre" in 1992-$ =	$3,685		"RECLAIMED ACREAGE"
"Reclaimed Acreage" in revision =	139.8	=>	769.5
Multiplied by $/"Reclaimed Acre" 1992-$ =	$515,179		
Add to 1992-$ to get new total =	$2,835,698		

Escalate this new total 5 years into the future

CALCULATIONS F = P(1 + i)**n	YR	ESCAL FACTOR	BOND AMOUNT
	1992	0.0127	$2,835,698
3 Yr Average = 1.27%	1993	0.0127	$2,871,712
Used to Project 5 Yrs	1994	0.0127	$2,908,182
Into the Future	1995	0.0127	$2,945,116
From the Year 1992	1996	0.0127	$2,982,519
	1997	0.0127	$3,020,397

Updated Surety Amount Rounded (1997-$) $3,020,000

Average cost per reclaimed acre 3,925 ($/ACRE)

obtained from three local construction contractors.

ORIGINAL MOI 1989 BARI'S CANYON ~~REVISED MOI~~ ~~REVISION~~ M1035/009

Appendix H-1 provides spreadsheets of the reclamation components and associated costs for each area of the property receiving treatment. All assumptions, references, and ancillary calculations used in preparing these spreadsheets are found in Appendix H-2. Table 7.0.1 summarizes the costs for each component. The total cost of reclamation (in 1988 dollars) is estimated to be $2,206,340.

Table 7.0.1 Reclamation Cost Summary

Component	Cost
Topsoiling	852,610
Pit Safety Berms	3,370
Fill Slope Regrading	407,440
Rip Topsoiled Surfaces	18,470
Leach Pad Perimeter and Pad Regrading	23,770
Fold Pond & Leach Pad Liners	4,880
Runoff Control	25,000

REVISED 9-29-89

Table 7.0.1 Reclamation Cost Summary (Continued)

Component		Cost
Revegetation		752,510
Equipment Mob/demo		13,230
	Subtotal	$ 2,101,280
Supervision (5% of subtotal)		105,060
	Total	**$ 2,206,340**

BARNEYS CANYON PROJECT
RECLAMATION COST ESTIMATE
SEPTEMBER 1989

ORIGIN NOT
M/035/009

APPENDIX ~~H-2~~ H-1

TOPSOIL PLACEMENT

LOADING

Material: Topsoil
Equipment: Cat 992C
Capacity (LCY): 13.50

Job Efficiency: 0.56
Equipment Cost ($/hr): 189.00

	Area acres	Quantity CY	Maximum Production CY/hr	Actual Production CY/hr	Time hours	Cost $
Roads	72.0	116160	1300	728	160	30157
Admin Bldg	3.4	5485	1300	728	8	1424
Process/Lab/Substation	21.1	34041	1300	728	47	8838
Ore Stockpile/Crusher	17.3	27911	1300	728	38	7246
Shop/Water Storage	13.3	21457	1300	728	29	5571
Gravel/clay pit #1	1.5	2420	1300	728	3	628
Clay pit #2	2.5	4033	1300	728	6	1047
Alt. Clay pit	1.4	2259	1300	728	3	586
BC Pit road fill dump	5.4	8712	1300	728	12	2262
MD 6500	45.1	72761	1300	728	100	18890
MD 6400	27.3	44044	1300	728	60	11434
MD 6300	65.8	106157	1300	728	146	27560
Mel-Co dump surfaces (3)	33.2	53563	1300	728	74	13906
Mel-Co Dump Outslopes	26.2	42269	1300	728	58	10974
Leach Pad BC-1	56.9	91799	1300	728	126	23832
Leach Pad BC-2	43.5	70180	1300	728	96	18220
Leach Pad BC-3	50.8	81957	1300	728	113	21277
Leach Pad BC-4	60.2	97123	1300	728	133	25215
Leach Pad M-1	30.1	48561	1300	728	67	12607
Leach Pad M-2	19.7	31783	1300	728	44	8251
Future Leach Pad	19.4	31299	1300	728	43	8126

Total Cost (1989 Dollars): 258051

HAULING

Material: Topsoil
Equipment: Cat 773B
Capacity (LCY): 37.50

Job Efficiency: 0.83
Equipment Cost ($/hr): 105.00

	Area acres	Depth feet	Quantity CY	Haul Dist feet	Cycle Time min	Maximum Prod. CY/hr	Actual Prod. CY/hr	Time hours	Cost $
Mel-Co Roads	21.6	1.00	34848	2400	8.6	262	217	160	16850
Barneys/Mel-Co Access Road	28.8	1.00	46464	3300	9.8	230	191	244	25602
Barneys Roads	21.6	1.00	34848	3300	12.7	177	147	237	24883
Admin Bldg	3.4	1.00	5485	3900	10.1	223	185	30	3115
Process/Lab/Substation	21.1	1.00	34041	2400	8.8	256	212	160	16843
Ore Stockpile/Crusher	17.3	1.00	27911	3750	9.8	230	191	146	15379
Shop/Water Storage	13.3	1.00	21457	3900	9.9	227	189	114	11944
Gravel/clay pit #1	1.5	1.00	2420	2100	9.1	247	205	12	1238
Clay pit #2	2.5	1.00	4033	1050	7.5	300	249	16	1701
Alt. Clay pit	1.4	1.00	2259	1800	8.1	278	231	10	1029
BC Pit road fill dump	5.4	1.00	8712	2300	10.0	225	187	47	4898
MD 6500	45.1	1.00	72761	1500	7.4	304	252	288	30273
MD 6400	27.3	1.00	44044	1620	8.5	265	220	200	21049
MD 6300	32.9	1.00	53079	1800	7.8	288	239	222	23278
Mel-Co dump surfaces (3)	33.2	1.00	53563	3300	9.6	234	195	275	28911
Mel-Co Dump Outslopes	26.2	1.00	42269	3300	9.6	234	195	217	22815
Leach Pad BC-1	56.9	1.00	91799	3000	14.5	155	129	713	74840
Leach Pad BC-2	43.5	1.00	70180	1350	7.6	296	246	286	29989
Leach Pad BC-3	50.8	1.00	81957	5400	12.2	184	153	535	56218
Leach Pad BC-4	60.2	1.00	97123	2100	8.8	256	212	458	48054
Leach Pad M-1	30.1	1.00	48561	1200	7.8	288	239	203	21297
Leach Pad M-2	19.7	1.00	31783	9000	10.2	221	183	174	18227
Future Leach Pad	19.4	1.00	31299	2400	8.6	262	217	144	15134

Total Cost (1989 Dollars): 513567

SPREADING

Material: Topsoil Job Efficiency: 0.90
Equipment: Cat D8L Equipment Cost ($/hr): 132.00

	Area acres	Depth feet	Quantity CY	Doze Dist feet	Max Prod CY/hr	Job Eff %	Act Prod CY/hr	Time hours	Cost $
Roads	72.0	1.00	116160	50	1800	0.9	1620	72	9465
Admin Bldg	3.4	1.00	5485	50	1800	0.9	1620	3	447
Process/Lab/Substation	21.1	1.00	34041	50	1800	0.9	1620	21	2774
Ore Stockpile/Crusher	17.3	1.00	27911	50	1800	0.9	1620	17	2274
Shop/Water Storage	13.3	1.00	21457	50	1800	0.9	1620	13	1748
Gravel/clay pit #1	1.5	1.00	2420	50	1800	0.9	1620	1	197
Clay pit #2	2.5	1.00	4033	50	1800	0.9	1620	2	329
Alt. Clay pit	1.4	1.00	2259	50	1800	0.9	1620	1	184
BC Pit road fill dump	5.40	1.00	8712	50	1800	0.9	1620	5	710
MD 6500	45.1	1.00	72761	50	1800	0.9	1620	45	5929
MD 6400	27.3	1.00	44044	50	1800	0.9	1620	27	3589
MD 6300	65.8	1.00	106157	50	1800	0.9	1620	66	8650
Mel-Co dump surfaces (3)	33.2	1.00	53563	50	1800	0.9	1620	33	4364
Mel-Co Dump Outslopes	26.2	1.00	42269	50	1800	0.9	1620	26	3444
Leach Pad BC-1	56.9	1.00	91799	50	1800	0.9	1620	57	7480
Leach Pad BC-2	43.5	1.00	70180	50	1800	0.9	1620	43	5718
Leach Pad BC-3	50.8	1.00	81957	50	1800	0.9	1620	51	6678
Leach Pad BC-4	60.2	1.00	97123	50	1800	0.9	1620	60	7914
Leach Pad M-1	30.1	1.00	48561	50	1800	0.9	1620	30	3957
Leach Pad M-2	19.7	1.00	31783	50	1800	0.9	1620	20	2590
Future Leach Pad	19.4	1.00	31299	50	1800	0.9	1620	19	2550

Total Cost (1989 Dollars): 80991

TOPSOIL PLACEMENT COST SUMMARY

Loading	258100
Hauling	513600
Spreading	81000
Total	852700

CONSTRUCT SAFETY BERMS AROU S

Material: Rock and Soil
Density (lb/cy): 2900
Job Efficiency: 0.59
X-sect. Area (SF) 24
Doze Distance (Ft) 200

Equipment: Cat D8L-U
Equipment Cost ($/hr): 132.00

	Length feet	Quantity CY	Maximum Prod. CY/hr	Actual Production CY/hr	Actual Time hours	Cost $
Barneys Pit	6000	5333	620	366	14.58	1925
Mel-Co Pit	4500	4000	620	366	10.93	1443

Total Cost (1989 Dollars): 3368

FILL SLOPE REGRADING

Material: Sandstone
Density (lb/cy): 2550
Job Efficiency: 0.504
Ave Doze Dist: 200

Equipment: Cat D9N-U
Equipment Cost ($/hr): 142.00

	Volume CY	Max Prod CY/hr	Act Prod CY/hr	Time hours	Cost $
Dump 6500 upper lift	78400	980	494	158.73	22540
Dump 6500 middle lift	84900	980	494	171.89	24408
Dump 6500 lower lift	58800	980	494	119.05	16905
Dump 6400	75100	980	494	152.05	21591
Dump 6300	434500	980	494	879.70	124917
Road fill North of BC Pit	36200	980	494	73.29	10407
Leach Pad BC-1	23200	980	494	46.97	6670
Leach Pad BC-2	21400	980	494	43.33	6152
Leach pad BC-3	20100	980	494	40.69	5779
Leach pad BC-4	27100	980	494	54.87	7791
Leach pad M-1	17300	980	494	35.03	4974
Leach Pad M-2	12000	980	494	24.30	3450
Future pad	10100	980	494	20.45	2904
Mel-Co top	15100	980	494	30.57	4341
MD-7300 top	22700	980	494	45.96	6526
MD-7200 top	30200	980	494	61.14	8682
S of ore stockpile	97900	980	494	198.21	28146
Shop	66700	980	494	135.04	19176
BC-1 Ore	50500	980	494	102.24	14519
BC-2 Ore	46600	980	494	94.35	13397
BC-3 Ore	43700	980	494	88.48	12564
BC-4 Ore	58300	980	494	118.04	16761
M-1 Ore	37900	980	494	76.73	10896
M-2 Ore	26200	980	494	53.05	7532
Future Pad	22300	980	494	45.15	6411

Total Cost (1989 Dollars): 407439

RIPPING TOPSOILED SURFACES

Material:	Topsoil	Equipment Cost:	142.00
Equipment	Cat 16G	Ripping Width (ft):	9.77
Velocity (mph):	4.00		

	Area acres	Time hours	Cost $
Roads	72.0	15.20	2158
Admin Bldg	3.4	0.72	102
Process/Lab/Substation	21.1	4.45	633
Ore Stockpile/Crusher	17.3	3.65	519
Shop/Water Storage	13.3	2.81	399
Gravel/clay pit #1	1.5	0.32	45
Clay pit #2	2.5	0.53	75
Alt. Clay pit	1.4	0.30	42
BC Pit road fill dump	5.4	1.14	162
MD 6500	45.1	9.52	1352
MD 6400	27.3	5.76	818
MD 6300	65.8	13.89	1972
Mel-Co dump surfaces (3)	33.2	7.01	995
Mel-Co Dump Outslopes	26.2	5.53	785
Leach Pad BC-1	56.9	12.01	1706
Leach Pad BC-2	43.5	9.18	1304
Leach Pad BC-3	50.8	10.72	1523
Leach Pad BC-4	60.2	12.71	1805
Leach Pad M-1	30.1	6.35	902
Leach Pad M-2	19.7	4.16	591
Future Leach Pad	19.4	4.10	582
Total Cost (1989 Dollars)			18469

LEACH PAD PERIMETER AND POND REGRADING

Material:	Rock and Soil	Equipment:	Cat D9N-U
Density (lb/CY):	2900.00	Equipment Cost ($/hr):	142.00
Job Effeciency:	0.59		

	Volume CY	Doze Dist feet	Max Prod CY/hr	Act Prod CY/hr	Time hours	Cost $
Leach Pad BC-1	20475	50	2200	1298	15.77	2240
Leach Pad BC-2	18375	50	2200	1298	14.16	2010
Leach Pad BC-3	18375	50	2200	1298	14.16	2010
Leach Pad BC-4	23100	50	2200	1298	17.80	2527
Leach Pad M-1	15750	50	2200	1298	12.13	1723
Leach Pad M-2	12600	50	2200	1298	9.71	1378
Future Leach Pad	10500	50	2200	1298	8.09	1149
Solution Ponds	53500	100	1200	708	75.56	10730
				Total Cost (1989 Dollars):		23768

LEACH PAD AND SOLUTION POND LINERS

Manual Labor ($/hr):	12.50
Number of Laborers:	2

	Time hours	Cost $
Leach Pad BC-1	25.00	625
Leach Pad BC-2	25.00	625
Leach Pad BC-3	25.00	625
Leach Pad BC-4	25.00	625
Leach Pad M-1	25.00	625
Leach Pad M-2	25.00	625
Future Leach Pad	25.00	625
Solution Ponds	20.00	500
Total Cost (1989 Dollars):		4875

RUNOFF CONTROL	Lump Sum Cost
Install Waterbars	14200
Remove Culverts	8400
Remove Silt Fences	2400
Total Cost (1989 Dollars):	25000

REVEGETATION TREATMENTS

	Item	Cost ($/ac)
1	Topsoiled Areas Seed Cost	199
2	Non-topsoiled Areas Seed Cost	191
3	Riparian Areas Seed Cost	203
4	Seeding with Range Drill	100
5	Hydroseeding (application only)	800
6	#1 Container Stock (45/ac)	180
7	#1 Container Stock (135/ac)	608
8	Fertilizer Cost	47
9	Fertilizer Application	30
10	Urea Cost	22
11	Urea Application	15
12	Mulch Cost	100
13	Mulch Application	30
14	Mulch Crimping	70
15	Seed Broadcasting	100

Revegetation Treatment I: Topsoiled Areas less than 2:1
Items 1, 4, 6 and 8 - 13
Total Cost ($/ac): 723

	Area acres	Cost $
Roads	72.0	52056
Admin Bldg	3.4	2458
Process/Lab/Substation	7.5	5423
Ore Stockpile/Crusher	9.9	7158
Shop/Water Storage	4.6	3326
Gravel/clay pit #1	1.5	1085
Clay pit #2	2.5	1808
Alt. Clay pit	1.4	1012
MD 6500	17.7	12797
MD 6400	18.7	13520
MD 6300	26.0	18798
Mel-Co dump surfaces (3)	33.20	24004
Leach Pad BC-1	12.50	9038
Leach Pad BC-2	10.0	7230
Leach Pad BC-3	18.5	13376
Leach Pad BC-4	20.2	14605
Leach Pad M-1	9.60	6941
Leach Pad M-2	5.8	4193
Future Leach Pad	1.60	1157
	Total Cost (1989 Dollars)	199982

Revegetation Treatment II: Topsoiled Areas at 2:1 Slope
Items 1, 5, 6, 8 and 10 - 14
Total Cost ($/ac): 1463

	Area acres	Cost $
Process/Lab/Substation	13.6	19897
Ore Stockpile/Crusher	7.4	10826
Shop/Water Storage	8.7	12728
MD 6500	27.40	40086
MD 6400	8.60	12582
MD 6300	39.80	58227
Mel-Co Dump Outslopes	26.20	38331
Leach Pad BC-1	44.40	64957
Leach Pad BC-2	33.50	49011
Leach Pad BC-3	32.30	47255
Leach Pad BC-4	40.00	58520
Leach Pad M-1	20.50	29992
Leach Pad M-2	13.90	20336
Future Leach Pad	17.80	26041
Total Cost (1989 Dollars):		488788

Revegetation Treatment III: Non-topsoiled Slopes
Items 2, 5, 7, 8 and 10 - 12
Slopes will be hydroseeded twice
Total Cost ($/ac): 2583

	Area acres	Cost $
MD 7100 & 7200 Slopes	18.9	48819
Total Cost (1989 Dollars):		48819

Revegetation Treatment IV: Interim Topsoil Stockpile Seeding
Items 1 & 15
Total Cost ($/ac): 299

	Area acres	Cost $
Topsoil Stockpiles	49.9	14920
Total Cost (1989 Dollars):		14920

Revegetation Total Cost 752509

RECLAMATION COST SUMMARY

	Total Cost 1989 U S Dollars
Topsoil Placement	
Loading	258051
Hauling	513567
Spreading	80991
Construct Safety Berms Around Pits	3368
Fill Slope Regrading	407439
Ripping Topsoiled Surfaces	18469
Leach Pad Perimeter & Pond Regrading	23768
Fold Leach Pad and Sol'n Pond Liners	4875
Runoff Control	25000
Revegetation Treatments	
Less than 2h:1v slope	199982
2h:1v slopes	488788
Non-toposiled slopes	48819
Interim Topsoil seeding	14920
Equipment Mob/Demob	13230
Subtotal	$2,101,270
Supervision (5% of Subtotal)	105064
Grand Total	$2,206,330