COGEMA

January 22, 2004

License SUA-1341
Docket No. 40-8502

U.S. Nuclear Regulatory Commission
ATTN: Mr. Gary Janosko, Chief
Fuel Cycle Licensing Branch
Mail Stop T-8A33
Two White Flint North
11545 Rockville Pike
Rockville, MD 20852-2738

RE: Response to NRC Request for Additional Information (TAC #LU0002)
COGEMA Mining, Inc. 2003 Surety Review

Dear Mr. Janosko:

Attached to this letter is COGEMA Mining's response to NRC's December 16, 2003 request for additional information for our 2003 surety submittal. Although I believe that we have adequately addressed each informational request, we clearly have concerns with NRC's request No. 3 for COGEMA to reinstate the surety amounts for groundwater sweep work that has been completed. NRC has told COGEMA that their policy is to not reduce the surety amount for work completed unless that work has been inspected and approved by the NRC staff, and that NRC has not received a final restoration report from COGEMA therefore no credit can be taken. We understand this to mean that NRC will not release any portion of the groundwater restoration surety for work completed until the entire restoration program is completed and approved.

Once again, we ask that the NRC reconsider their policy for groundwater restoration surety release and allow COGEMA to reduce the surety for work completed. Our reasoning stands as follows:

- 10 CFR 40, Appendix A, Criterion 9 states, in part, "The licensee's surety mechanism will be reviewed annually by the Commission ... The amount of surety liability should be adjusted to recognize any increases or **decreases** resulting from inflation, changes in engineering plans, **activities performed**, and any other conditions affecting costs." [emphasis added] Clearly NRC has the authority to release portions of the surety as work is completed.

- NRC's policy to not approve the release of portions of the surety for work performed during groundwater restoration is not consistent with state policy for ISL restoration in Wyoming (non-agreement state) or Texas (NRC-agreement state):

    - The State of Wyoming, Department of Environmental Quality, has approved the release of COGEMA's groundwater sweep surety monies (letter dated April 3, 2003). They agree that this part of the restoration process has been completed and there is no reason to continue to keep this phase under the surety. Wyoming's policy for reclamation bonding is to return portions of the bond when the work is completed.

COGEMA Mining, Inc.
935 Pendell Blvd., P.O. Box 730, Mills, WY 82644 - Tel. : (307) 234-5019 - Fax : (307) 473-7306

NMSS01

- The Texas Department of Health and Texas Commission on Environmental Quality has maintained for many years a policy allowing a one-time release of up to 50% of the groundwater restoration surety after up to 50% of the work plan has been completed. For each of our 22 ISL wellfields that have undergone restoration in Texas, COGEMA has received the one-time 50% reduction in restoration surety. The reduction applies to the total groundwater restoration surety amount for a wellfield and is primarily based on the percentage of groundwater volume treated compared to the approved restoration plan. Texas is an NRC-agreement state and apparently this policy is acceptable to the NRC.

- 10 CFR 40, Appendix A, Criterion 9 also states, in part, "In order to avoid unnecessary duplication and expense, the Commission may accept financial sureties that have been consolidated with financial surety arrangements established to meet requirements of other Federal or state agencies and/or local governing bodies for such decommissioning, decontamination, reclamation, and long-term site surveillance and control, provided such arrangements are considered adequate to satisfy these requirements and ...." The Wyoming Department of Environmental Quality is the sole beneficiary of COGEMA's financial surety and they have approved the release of COGEMA's groundwater sweep surety monies. As Wyoming is the beneficiary of these funds, not the NRC, then we believe that NRC should accept the state's decision. Furthermore, after the NRC approves of all the changes to this 2003 surety made as a result of their review, including the reinstatement of groundwater sweep costs, we will then have to go back to the state for another review and approval of the surety. We view this as an unnecessary duplication of effort and expense, inconsistent with Criterion 9.

- Financial sureties are becoming more and more difficult for mining companies to obtain. In COGEMA's case, we have a letter of credit rather than an actual bond, yet letters of credit are becoming harder to maintain and are increasing in price. The bonding and insurance companies are simply not interested in this type of business. A primary reason the bonding and insurance companies are disillusioned with reclamation sureties is that the mining "liabilities" never seem to go away, i.e. surety releases by regulators seem few and far between. And they do not understand why surety levels tend to increase rather than decrease even though millions of dollars are spent each year for reclamation. Because of this, the Governor of Wyoming has established a working group of corporate and state officials to investigate ways to alleviate the reclamation surety situation. One of the areas to be addressed is why more surety releases are not occurring. In our case the answer will be that the State of Wyoming has approved surety release for a portion of the ISL restoration work completed, but the NRC will not.

- Additional reasons for why COGEMA's groundwater sweep portion of the surety should be released were previously provided to NRC in submittals dated October 14, 2002 and August 18, 2003, and will not be repeated here.

As a result of the informational requests by NRC, our 2003 reclamation surety estimate is now a total of $12,120,120 rather than the $11,652,503 proposed in the August 18, 2003 surety submittal. For ease of review, the entire surety estimate is provided in Attachment B of the attached responses. It includes the revisions made in the original August 18 submittal, the October 29 email, and today's submittal.

Thank you for your time and consideration of our request for NRC to reconsider their groundwater restoration surety release policy. If you or your staff should have any questions regarding our attached responses, please do not hesitate to contact me.

Sincerely,

Donna L. Wichers

Donna L. Wichers
General Manager

Attachments

cc: NRC – Ms. Elaine Brummett, Project Manager
NRC – Region IV
W. Heili, T. Nicholson - COGEMA

RESPONSE TO NRC REQUEST FOR ADDITIONAL INFORMATION
COGEMA MINING, INC. 2003 SURETY UPDATE
IRIGARAY AND CHRISTENSEN RANCH
January 22, 2004

1. NRC Comment::
The cost estimates were derived using several different methods such as actual billings, estimates from contractors in the past several months, prices from past years inflated by the consumer price index, and from the Wyoming Land Quality Division's Guideline No. 12. The submittal didn't indicate why or how a particular method was chosen.

NRC Request:
Provide the basis for choosing one method of cost estimating over another, and indicate how bias toward choosing the method providing the lowest cost was avoided.

COGEMA Response:
As noted in our email to NRC of October 29, 2003, the basis for COGEMA's costs are 1) COGEMA actual costs, 2) a published reference source, 3) quotes from local third-party contractors, or 4) a previously known cost that has been inflated using the CPI. The basis for choosing one method over another is the availability of an up-to-date cost for that activity. In the 2003 surety estimate, actual costs to COGEMA were used wherever possible. We feel that this is the most accurate cost estimator and we always use this over the other methods, when available. However, because we do not have experience with many of the decommissioning and demolition activities, we do not have internal costs. In this case we ask local contractors for quotes (if these are available). If a quote for the activity is not available locally, then we look at applicable published references such as the DEQ's Guideline 12 or Means Cost Works, etc. If all else fails, we may need to use an older published reference or internal reference for a particular cost and update it with the CPI. If there is any bias in following this order it is in favor of actual cost, which is not necessarily the lowest cost.

2. NRC Comment:
On Worksheet 1, Section VI (Restoration Capital Requirements), the cost for deep injection well abandonment is the same as the 2001 and 2002 estimates of $200,000. In a draft Worksheet provided October 29, 2003, COGEMA proposed to decrease this value to $165,074, based on a 1999 well abandonment estimate of $150,000 adjusted by an inflation factor of 10.05 percent. There was no explanation of why the 2001 value was not increased for inflation instead of a 1999 value. All major item costs should have been inflated (using consumer price index) to estimate 2003 prices or actual prices should have been obtained.

NRC Request:
Indicate the 2003 cost for deep injection well abandonment and the method used to determine the cost (revise the Worksheet as necessary), as justified by the 2001 estimate. In addition, provide the updated cost for any major item, or justify why the value is the same as last year.

COGEMA Response:
In December 2003 COGEMA hired Petrotek Engineering Corporation to prepare a plugging and abandonment plan and associated cost estimate for the two Class I wells located at Christensen. A copy of the cost estimate is attached to this submittal as Attachment A. The estimate was prepared using December 2003 quotes from Wyoming vendors. In

summary, the estimated cost for plugging and abandonment of Christensen DW No. 1 and Christensen 18-3 is $73,950 and $66,250 respectively. This is a total of $140,200 for the two wells as compared to the $160,074 estimate previously submitted (1999 estimate developed by Harlan & Associates, inflated by 10.05% by the CPI to 2003 dollars). Worksheet 1 has been revised to show the new estimate of $140,200 for the Class 1 well disposal abandonment, and is provided in Attachment B.

3. NRC Comment:
The Summary Section of Worksheet 1 indicates that completion of groundwater sweep is taken as a credit and your letter provided some justification for this credit. As discussed in our letter to you of September 27, 2002, that responded to a similar earlier request, the NRC policy is to not reduce the surety amount for work completed, unless that work has been inspected and approved by the NRC staff. The restoration report has not even been submitted to the NRC, therefore the credit should not be taken.

NRC Request:
Provide a revised summary page with a groundwater restoration estimate that includes groundwater sweep costs.

COGEMA Response:
In the cover letter associated with this submittal, COGEMA continues to question NRC's position on not releasing the surety amount for the completed groundwater sweep. However, we have complied with NRC's request and have provided a revised Table 1 and Worksheet 1 in Attachment B.

4. NRC Comment:
On Worksheets 2-4, the transportation cost to dispose of various materials is listed as $2.58 per mile. The discussion under "Assumptions" for Worksheet 2 indicates that this is the price charged by Key Trucking. The NRC staff comment #2 asked, " ... indicate when these changes were billed or otherwise demonstrate that the cost reflects the high fuel prices of 2003 that would be incurred by a third party." The COGEMA draft response (September 26, 2003) indicated that Key Trucking was used in 2001. Also provided was a current price in Texas of $2.62 per mile.

NRC Request:
Adjust the transportation cost to reflect the current Wyoming price. Alternatively, inflate the 2001 Wyoming price to estimate the 2003 cost.

COGEMA Response:
During December 2003 and January 2004, COGEMA hired McIntosh Contractors to transport byproduct material (pond sludge) from the Irigaray site to the Shirley Basin tailings impoundment for final disposal. The trucking firm charged $65/hour and each roundtrip shipment took 10 hours. This included the time to drive from Casper to Irigaray, load and transport the material to Shirley Basin, unload, and return to Casper. This equates to $650 per load. The $650 per load cost has been incorporated into the licensed site transportation cost in Worksheets 2, 3, 4, and 6. Revised pages are provided in Attachment B.

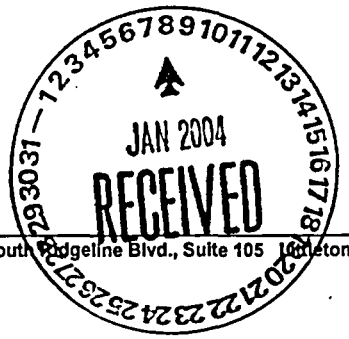
Additionally, COGEMA hired Brubaker Backhoe Service (BBS) to haul non-contaminated trash and debris to the Edgerton, Wyoming landfill. The charge for each load (November 2003 cost) was $160. This cost has also been incorporated into Worksheets 2, 3, 4 and 6.

ATTACHMENT A

DISPOSAL WELL P&A COSTS

January 22, 2004

CC: TGN
WWH
BB



Petrotek

Petrotek Engineering Corporation 9088 South Ridgeline Blvd., Suite 105 Littleton, Colorado 80129 USA (303) 290-9414 FAX (303) 290-9580

December 30, 2003

COGEMA Mining, Inc.
935 Pendell Boulevard
Mills, WY 82644

Attention: Donna Wichers

Subject: **Class I Disposal Well Plugging and Abandonment Cost Estimate**
Christensen Ranch ISL Mine; Johnson County, Wyoming

Dear Donna:

Per your request, Petrotek Engineering Corporation (Petrotek) has prepared plugging and abandonment procedures and cost estimates for COGEMA's Class I wells located at Christensen Ranch (DW No. 1 and Christensen 18-3).

The procedures included herein are based on the Wyoming Department of Environmental Quality (WDEQ) UIC Permit 00-340 which applies to both wells, and WDEQ regulations and guidance.

Time and materials cost estimates for the wells are presented in Tables 1 and 2. The costs are based on information provided by COGEMA, WDEQ requirements, our field experience, and recent quotes from applicable vendors.

The costs are based on the following assumptions:

- A falloff test and Radioactive Tracer log (RAT) may be required. Based on discussions with Mr. Bob Lucht of WDEQ, (1) a falloff test would be required if more than six months has elapsed since the last falloff test, and (2) a Part II mechanical integrity test (e.g., a RAT log) would be required if more than 2 years had elapsed since the last RAT log.
- Materials disposal (e.g., tubing, packer, wellhead and other debris) will be the responsibility of COGEMA;
- Subcontractor costs are billed directly to COGEMA (no markup by Petrotek).
- Cementing costs were based on verbal quotes from Rocky Mountain Cementers in Casper, Wyoming.

General plugging procedures are summarized below.

DW No. 1 (6733' RKB)

Move in rig & rig up. Pull packer and lay down 4 ½" tubing. Rig up stripping head. Pick up 2 7/8" workstring. Run in hole to 6700'.

Mix & pump 480 sacks 50/50 Poz cement + 2% bentonite (14.15#/gal). Displace with 20 bbl water. POOH to 3000', reverse clean, squeeze 100 sx cement into formation and WOC. Est. TOC 3400'.

RIH with tubing and tag cement. Mix & pump 580 sx 50/50 Poz cement + 2% bentonite in two or three stages till cement stands to surface. WOC.

Cut off casing and top of cement. Weld on cap and place marker. Rig down rig.

Christensen 18-3 (6577' RKB)

Move in rig. Rig up. Pull packer and lay down same. Rig up stripping head. Pick up 3,000 feet of 2 7/8" workstring. Run in hole to 6520'.

Mix & pump 280 sacks 50/50 Poz cement + 2% bentonite (14.15#/gal). Displace with 21 bbl water. POOH to 3200', reverse clean, squeeze 100 sx cement into formation and WOC. Est. TOC 3600'.

RIH with tubing and tag cement. Mix & pump 410 sx 50/50 Poz cement + 2% bentonite in two or three stages till cement stands to surface. WOC.

Cut off casing and top of cement. Weld on cap and place marker. Rig down rig.

Please contact the undersigned or Ken Cooper if you have any questions or comments regarding the plugging procedures, cost estimates, or other matters.

Sincerely,

Petrotek Engineering Corporation
Hal Demuth

Table 1
Plugging and Abandonment Cost Estimate: DW No. 1
COGEMA Mining Christensen Ranch

Well Depth = 6733' RKB **FIELD OPERATIONS**	Unit Cost	Units Req'd.	Total Cost
Subcontractors - Direct bill to COGEMA			
Mob/demob & Location Preparation	$3,600	1	$3,600
Workover Rig and Associated Equipment (days)	$3,300	4	$13,200
Rental Tools (days)	$1,200	4	$4,800
Rental Tubing Inspection	$4,000	1	$4,000
Falloff Test	$5,500	1	$5,500
RAT Log	$2,800	1	$2,800
Trucking	$3,000	1	$3,000
Contract Labor	$500	2	$1,000
Cement (1100 sx), pumping & equipment	$22,000	1	$22,000
Contingency	$4,000	1	$4,000
Total Estimated Subcontractor Charges			$63,900
Test Design and Project Management (hours)	$80	24	$1,920
Supervision (days)	$700	5	$3,500
Travel (hours)	$80	8	$640
Field Truck and Fuel (days)	$95	6	$570
Per Diem (days)	$100	6	$600
Data Analysis (lump sum)	$900	1	$900
Report Preparation (hours)	$80	24	$1,920
Total Estimated Petrotek Charges			$10,050
TOTAL ESTIMATED COST			**$73,950**

Assumptions:

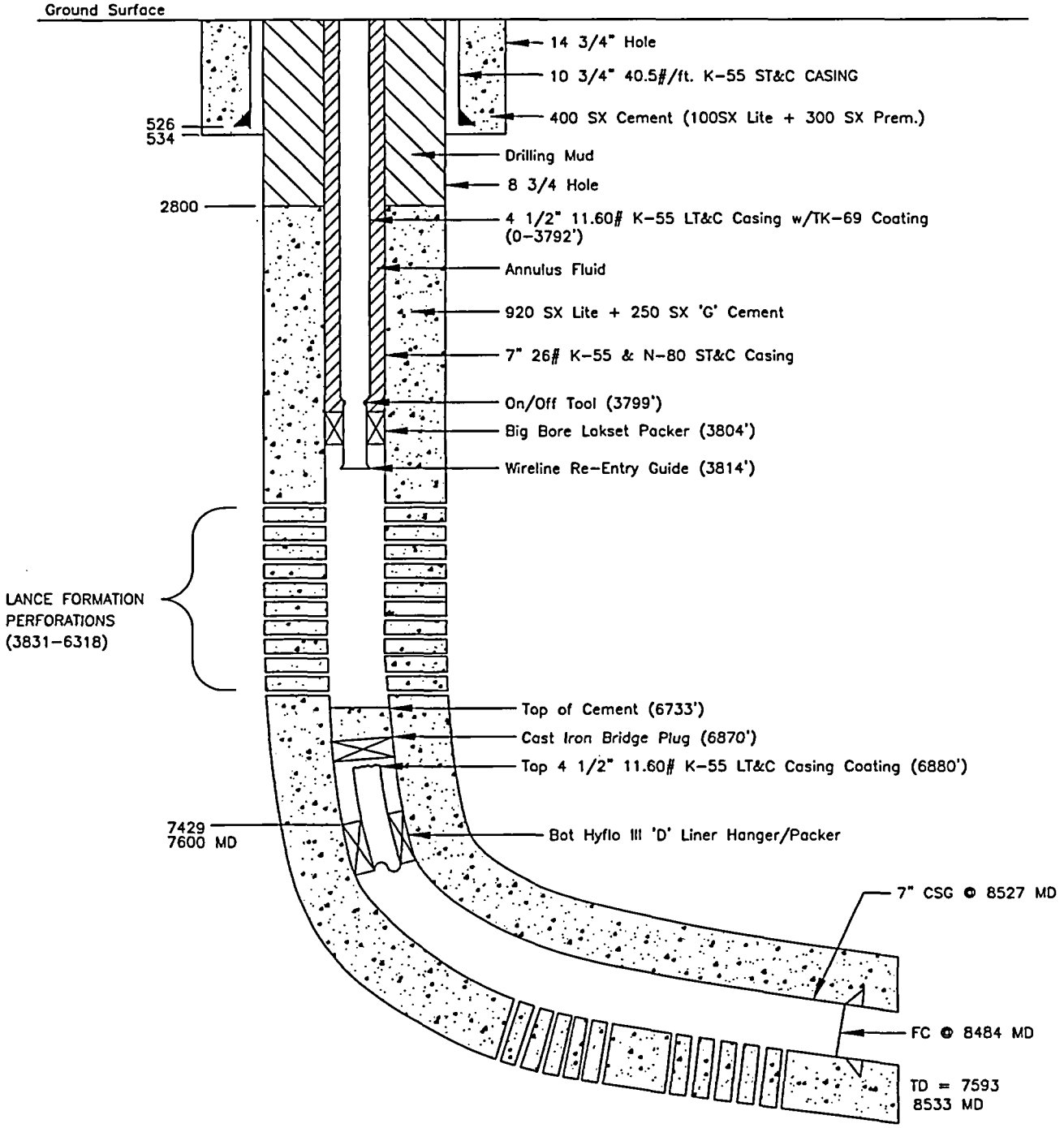
Subcontractors will bill COGEMA directly - otherwise a 10% markup will apply.
Field activities can be completed in 5 days; otherwise T&M rates will apply.
Falloff test is required if > 6 months since last test; RAT log required if > 2 years since last log.
Two cement plugs are set; one to plug injection interval; the second (3 stages) to fill the casing
COGEMA will be responsible for disposal of all well equipment.

Table 2
Plugging and Abandonment Cost Estimate: Christensen 18-3
COGEMA Mining Christensen Ranch

Well Depth = 6577' RKB **FIELD OPERATIONS**	Unit Cost	Units Req'd.	Total Cost
Subcontractors - Direct bill to COGEMA			
Mob/demob & Location Preparation	$3,600	1	$3,600
Workover Rig and Associated Equipment (days)	$3,300	4	$13,200
Rental Tools (days)	$900	4	$3,600
Rental Tubing Inspection	$3,000	1	$3,000
Falloff Test	$5,500	1	$5,500
RAT Log	$2,800	1	$2,800
Trucking	$3,000	1	$3,000
Contract Labor	$500	2	$1,000
Cement (700 sx), pumping & equipment	$17,500	1	$17,500
Contingency	$3,000	1	$3,000
Total Estimated Subcontractor Charges			$56,200
Test Design and Project Management (hours)	$80	24	$1,920
Supervision (days)	$700	5	$3,500
Travel (hours)	$80	8	$640
Field Truck and Fuel (days)	$95	6	$570
Per Diem (days)	$100	6	$600
Data Analysis (lump sum)	$900	1	$900
Report Preparation (hours)	$80	24	$1,920
Total Estimated Petrotek Charges			$10,050
TOTAL ESTIMATED COST			**$66,250**

Assumptions:

Subcontractors will bill COGEMA directly - otherwise a 10% markup will apply.
Field activities can be completed in 5 days; otherwise T&M rates will apply.
Falloff test is required if > 6 months since last test; RAT log required if > 2 years since last log.
Two cement plugs are set; one to plug injection interval; the second (3 stages) to fill the casing
COGEMA will be responsible for disposal of all well equipment.



NOTE:

ALL DEPTHS LISTED ARE TOTAL VERTICAL DEPTHS BELOW RKB (10') UNLESS OTHERWISE NOTED.

NOT TO SCALE

COGEMA Mining Inc.
CHRISTENSEN RANCH PROJECT

FIGURE 2
COMPLETION SCHEMATIC
COGEMA DW. NO. 1

PROJECT: 0169-004	DATE: DECEMBER, 1998
DWG: Figure2 1298.dwg	BY: HPD CHECKED: KRS

Petrotek
9088 South Ridgeline Blvd., Suite 105
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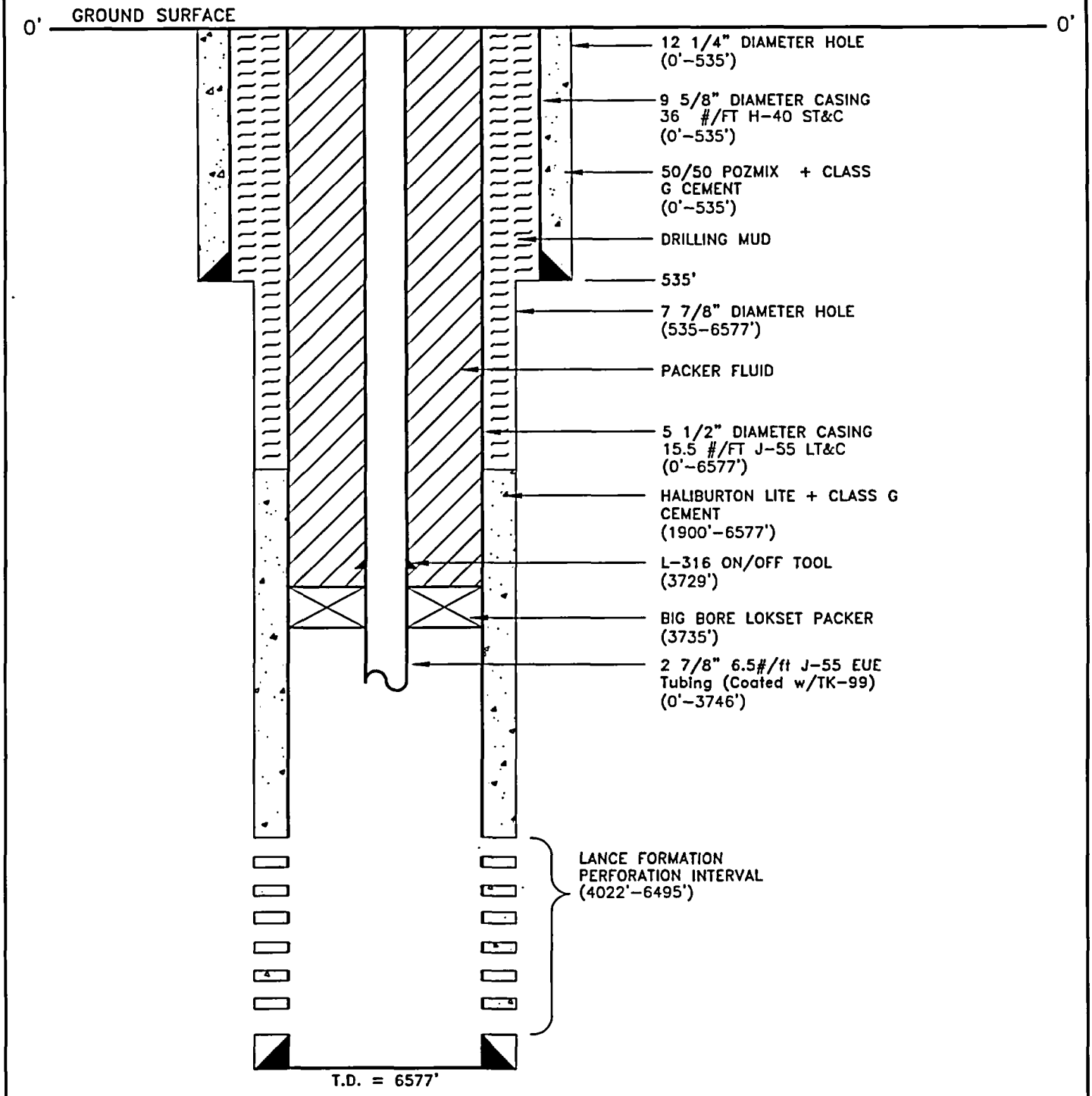

NOTE:
ALL DEPTHS IN FEET BELOW
RIG KELLY BUSHING (11' A.G.S.)

NOT TO SCALE

COGEMA Mining Inc.

FIGURE 2
COMPLETION SCHEMATIC
CHRISTENSEN 18–3

PROJECT: 0169–010	DATE: DECEMBER, 1999	
DWG: Fig–2 18–3.dwg	BY: HPD	CHECKED: KRS

Petrotek
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Littleton, Colorado 80129 (303) 290–9414

ATTACHMENT B

REVISED WORKSHEETS
For
2003 SURETY ESTIMATE

January 22, 2004

COGEMA Mining, Inc.
SUMMARY OF RECLAMATION/RESTORATION BOND ESTIMATE, 2003 - 2004
WDEQ PERMIT NO. 478/USNRC LICENSE SUA-1341
TABLE 1
(Revision 2, 01-22-04)

I	GROUNDWATER RESTORATION - Worksheet 1:	$4,290,067
II	DECOMMISSIONING AND SURFACE RECLAMATION:	
A.	Process Plant(s) Equipment Removal and Disposal Worksheet 2	$212,081
B.	Plant Building(s) Demolition and Disposal Worksheet 3	$734,007
C.	Process Pond Sludge and Liner Handling Worksheet 4	$1,310,879
D.	Well Abandonment Worksheet 5	$744,573
E.	Wellfield Equipment Removal and Disposal Worksheet 6	$866,581
F.	Topsoil Replacement and Revegation Worksheet 7	$731,218
G.	Miscellaneous Reclamation Activities Worksheet 8	$121,836
	Sub Total - Decommissioning and Surface Reclamation	$4,721,175
	TOTAL RESTORATION AND RECLAMATION	$9,011,242

	SUBTOTAL	$9,011,242
Miscellaneous Costs Associated with Third Party Contractors		
Project Design	2%	
Contractor Profit & Mobilization	8%	
Pre-construction Investigation	1%	
Project Management	5%	
On-site monitoring	0.5%	
Site Security & Liability Assurance	1%	
Longterm Administration	2%	
Contingency	15%	
TOTAL CONTINGENCY	34.5%	$3,108,878
GRAND TOTAL RESTORATION AND RECLAMATION		$12,120,120

COGEMA Mining, Inc.
2003 Restoration and Reclamation Costs
Wyoming Operations
WORKSHEET 1
(Revision 2, 01-22-04)

GROUNDWATER RESTORATION

	Irigaray Mine Unit(s) #1 Thru #5	Irigaray Mine Unit(s) #6 Thru #9	Christensen Mine Unit #2	Christensen Mine Unit #3	Christensen Mine Unit #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8
Technical Assumptions:									
Wellfield Area (Ft^2)	522720	784080	890000	798944	510088	1210968	2021243	1332936	1600000
Wellfield Area (Acres)	12.00	18.00	20.43	18.34	11.71	27.80	46.40	30.6	36.7
Affected Ore Zone Area (Ft^2)	522720	784080	890000	798944	550193	1346004	2058344		
Avg Completed Thickness (Ft)	15.0	18.0	11.0	10.0	12.7	19.9	21.8		
Affected Volume:									
Factor For Vertical Flare	20%	20%	20%	20%	20%	20%	20%		
Factor For Horizontal Flare	20%	20%	20%	20%	20%	20%	20%		
Total Volume (Ft^3)	11290752	20323353.6	14097600	11504793.6	10061929.6	38593685.7	64615534.85		
Porosity	26.0%	26.0%	26.0%	26.0%	26.0%	26.0%	26.0%		
Gallons Per Cubic Foot	7.48	7.48	7.48	7.48	7.48	7.48	7.48		
Gallons Per Pore Volume	21958254.49	39524858.1	27417012.5	22374522.6	19568440.7	75057000	125664292.2		
Number of Wells in Unit(s)									
Production Wells	150	274	153	185	105	217	202	155	
Injection Wells	310	330	173	277	128	277	244	170	
Monitor Wells	150	165	50	46	44	70	65	66	
Baseline Water Quality wells (prod or inj)	19	27	24	19	15	25	47		
Average Well Spacing (Ft)	35	35	85	70	85	85	100	100	
Average Well Depth (Ft)	250	250	345	300	430	450	520	550	
I GROUNDWATER SWEEP									
A. PLANT & OFFICE									
Operating Assumptions:									
Flowrate (gpm)	200	200	200	200	200	200	200		
PV's Required	4	1	1	1	1	1	1		
Total Gallons For Treatment	87833017.96	39524858.1	27417012.5	22374522.6	19568440.7	75057000	125664292.2		
Total KGals for Treatment	87833	39525	27417	22375	19568	75057	125664		
Cost Assumptions:	127358								
Power									
Avg Connected Hp	51.30	51.30	40.00	40.00	40.00	40.00	40.00		
Kwh's/Hp	1.00	1.00	0.83	0.83	0.83	0.83	0.83		
$/Kwh	$0.051	$0.051	$0.0365	$0.0365	$0.0365	$0.0365	$0.0365		
Gallons Per Minute	200	200	200	200	200	200	100		
Gallons Per Hour	12000	12000	12000	12000	12000	12000	6000		
Cost Per Hour	2.62	2.62	1.21	1.21	1.21	1.21	1.21		
Cost Per Gallon	0.00022	0.00022	0.00010	0.00010	0.00010	0.00010	0.00020		
Cost Per KGal ($)	$0.218	$0.218	$0.101	$0.101	$0.101	$0.101	$0.202		
Chemicals									
Antiscalent ($/Kgals)	$0.0947	$0.0947	$0.0947	$0.0947	$0.0947	$0.0947	$0.0947		
Elution ($/KGals)	$0.099	$0.099	$0.099	$0.099	$0.099	$0.099	$0.099		
Repair & Maintenance ($/KGals)	$0.0379	$0.0379	$0.0379	$0.0379	$0.0379	$0.0379	$0.0379		
Analysis ($/KGals)	$0.032	$0.102	$0.131	$0.127	$0.115	$0.050	$0.056		
Total Cost Per KGal	$0.482	$0.552	$0.464	$0.460	$0.448	$0.383	$0.490		
Total Treatment Cost	$42,342	$21,821	$12,718	$10,291	$8,758	$28,713	$61,534		
Utilities									
Power ($/Month)	$65	$65	$65	$65	$65	$65	$65		
Telephone ($/Month	$500	$500	$500	$500	$500	$500	$500		
Time For Treatment									
Minutes For Treatment	439165	197624	137085	111873	97842	375285	628321		
Hours For Treatment	7319	3294	2285	1865	1631	6255	10472		
Days For Treatment	305	137	95	78	68	261	436		
Average Days Per Month	30.4	30.4	30.4	30.4	30.4	30.4	30.4		
Months For Treatment	10.0	4.5	3.1	2.6	2.2	8.6	14.3		
Utilities Cost ($)	$5,665	$2,549	$1,768	$1,443	$1,262	$4,841	$8,105		
TOTAL PLANT & OFFICE COST	$48,007	$24,371	$14,487	$11,734	$10,020	$33,554	$69,639	$0	$0

COGEMA Mining, Inc.
2003 Restoration and Reclamation Costs
Wyoming Operations
WORKSHEET 1
(Revision 2, 01-22-04)

GROUNDWATER RESTORATION	Ingaray Mine Unit(s) #1 Thru #5	Irigaray Mine Unit(s) #6 Thru #9	Christensen Mine Unit #2	Christensen Mine Unit #3	Christensen Mine Unit #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8
I GROUNDWATER SWEEP (Continued)									
B. WELLFIELD									
Cost Assumptions:									
Power									
Avg Flow/Pump (gpm)	3.86	3.86	20	20	20	20	20		
Avg Hp/Pump	1.50	1.50	3.00	3.00	3.00	3.00	3.00		
Avg # of Pumps Required	51.8	51.8	10.0	10.0	10.0	10.0	10.0		
Avg Connected Hp	77.8	77.8	25	25	25	25	25		
Kwh's/Hp	1.000	1.000	0.830	0.830	0.830	0.830	0.830		
$/Kwh	$0.051	$0.051	$0.0365	$0.0365	$0.0365	$0.0365	$0.0365		
Gallons Per Minute	200	200	200	200	200	200	200		
Gallons Per Hour	12000	12000	12000	12000	12000	12000	12000		
Cost Per Hour ($)	$3.97	$3.97	$0.76	$0.76	$0.76	$0.76	$0.76		
Cost Per Gallon ($)	$0.0003	$0.0003	$0.0001	$0.0001	$0.0001	$0.0001	$0.0001		
Cost Per KGal ($)	0.331	0.331	0.063	0.063	0.063	0.063	0.063		
Repair & Maintenance ($/KGals)	$0.289	$0.289	$0.289	$0.289	$0.289	$0.289	$0.289		
Total Cost Per KGal	$0.620	$0.620	$0.353	$0.353	$0.353	$0.353	$0.353		
TOTAL WELLFIELD COST	$54,426	$24,492	$9,665	$7,887	$6,898	$26,459	$44,298	$0	$0
TOTAL GROUND WATER SWEEP COST	$102,433	$48,862	$24,152	$19,622	$16,918	$60,012	$113,937	$0	$0
II REVERSE OSMOSIS									
A. PLANT & OFFICE									
Operating Assumptions:									
Flowrate (gpm)	300	300	500	500	500	500	500		
PV's Required	3.0	5.0	5.0	5.0	5.0	5.0	5.0		
Total Gallons For Treatment	65874763.47	197624290	137085062	111872613	97842203.3	375285000	628321460.9		
Total KGals for Treatment	65875	197624	137085	111873	97842	375285	628321		
Feed to RO (gpm)	300	300	500	500	500	500	500		
Permeate Flow (gpm)	240	240	375	375	375	375	375		
Brine Flow (gpm)	60	60	125	125	125	125	125		
Average RO Recovery	80.0%	80.0%	75.0%	75.0%	75.0%	75.0%	75.0%		
Cost Assumptions:									
Power									
Avg Connected Hp	120.00	120.00	560.00	560.00	560.00	560.00	560.00		
Kwh's/Hp	1.000	1.000	0.830	0.830	0.830	0.830	0.830		
$/Kwh	$0.051	$0.051	$0.0365	$0.0365	$0.0365	$0.0365	$0.0365		
Gallons Per Minute	300	300	500	500	500	500	500		
Gallons Per Hour	18000	18000	30000	30000	30000	30000	30000		
Cost Per Hour ($)	$6.12	$6.12	$16.97	$16.97	$16.97	$16.97	$16.97		
Cost Per Gallon ($)	$0.00034	$0.00034	$0.00057	$0.00057	$0.00057	$0.00057	$0.00057		
Cost Per KGal ($)	$0.340	$0.340	$0.566	$0.566	$0.566	$0.566	$0.566		
Chemicals									
Caustic Soda ($/KGals)	$0.018	$0.018	$0.018	$0.018	$0.018	$0.018	$0.018		
Antiscalent ($/Kgals)	$0.0947	$0.0947	$0.0947	$0.0947	$0.0947	$0.0947	$0.0947		
Elution ($/Kgals)	$0.099	$0.099	$0.099	$0.099	$0.099	$0.099	$0.099		
Repair & Maintenance ($/KGals)	$0.038	$0.038	$0.038	$0.038	$0.038	$0.038	$0.038		
Sampling & Analysis ($/KGals)	$0.077	$0.039	$0.090	$0.122	$0.092	$0.039	$0.032		
Total Cost Per KGal ($)	$0.667	$0.629	$0.905	$0.937	$0.907	$0.854	$0.847		
Total Pumping Cost ($)	$43,940	$124,319	$124,089	$104,788	$88,752	$320,397	$531,949		
Utilities									
Power ($/Month)	$65	$65	$65	$65	$65	$65	$65		
Propane ($/Month	$500	$500	$500	$500	$500	$500	$500		
Time For Treatment									
Minutes For Treatment	219583	658748	274170	223745	195684	750570	1256643		
Hours For Treatment	3660	10979	4570	3729	3261	12510	20944		
Days For Treatment	152	457	190	155	136	521	873		
Average Days Per Month	30.4	30.4	30.4	30.4	30.4	30.4	30.4		
Months For Treatment	5.0	15.0	6.3	5.1	4.5	17.1	28.7		
Utilities Cost ($)	$2,825	$8,475	$3,560	$2,882	$2,543	$9,662	$16,216		
TOTAL PLANT & OFFICE COST	$46,765	$132,794	$127,648	$107,670	$91,294	$330,059	$548,165	$0	$0

COGEMA Mining, Inc.
2003 Restoration and Reclamation Costs
Wyoming Operations
WORKSHEET 1
(Revision 2, 01-22-04)

GROUNDWATER RESTORATION	Irigaray Mine Unit(s) #1 Thru #5	Irigaray Mine Unit(s) #6 Thru #9	Christensen Mine Unit #2	Christensen Mine Unit #3	Christensen Mine Unit #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8
II REVERSE OSMOSIS (Continued)									
B. WELLFIELD									
Cost Assumptions:									
Power									
Avg Flow/Pump (gpm)	3.86	3.86	20.00	20.00	20.00	20.00	20.00		
Avg Hp/Pump	1.50	1.50	3.00	3.00	3.00	3.00	3.00		
Avg # of Pumps Required	77.7	77.7	25.0	25.0	25.0	25.0	25.0		
Avg Connected Hp	116.6	116.6	75.0	75.0	75.0	75.0	75.0		
Kwh's/Hp	1.000	1.000	0.830	0.830	0.830	0.830	0.830		
$/Kwh	$0.051	$0.051	$0.0365	$0.0365	$0.0365	$0.0365	$0.0365		
Gallons Per Minute	300	300	500	500	500	500	500		
Gallons Per Hour	18000	18000	30000	30000	30000	30000	30000		
Cost Per Hour ($)	$5.95	$5.95	$2.27	$2.27	$2.27	$2.27	$2.27		
Cost Per Gallon ($)	$0.0003	$0.0003	$0.0001	$0.0001	$0.0001	$0.0001	$0.0001		
Cost Per KGal ($)	$0.330	$0.330	$0.076	$0.076	$0.076	$0.076	$0.076		
Repair & Maintenance ($/KGals)	$0.289	$0.289	$0.289	$0.289	$0.289	$0.289	$0.289		
Total Cost Per KGal	$0.619	$0.619	$0.365	$0.365	$0.365	$0.365	$0.365		
TOTAL WELLFIELD COST	$40,797	$122,391	$50,000	$40,804	$35,687	$136,881	$229,172	$0	$0
Add for 1 PV of Hydrogen Sulfide gas reductant $0.863 per Kgal	$18,950	$34,110	$23,661	$19,309	$16,888	$64,774	$108,448		
TOTAL REVERSE OSMOSIS COST	$106,512	$289,295	$201,309	$167,783	$143,869	$531,714	$885,785	$0	$0

COGEMA Mining, Inc.
2003 Restoration and Reclamation Costs
Wyoming Operations
WORKSHEET 1
(Revision 2, 01-22-04)

GROUNDWATER RESTORATION	Irigaray Mine Unit(s) #1 Thru #5	Irigaray Mine Unit(s) #6 Thru #9	Christensen Mine Unit #2	Christensen Mine Unit #3	Christensen Mine Unit #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8
III WASTE DISPOSAL WELL									
Operating Assumptions:									
Annual Evaporation Capacity (Gals)			1,917,612	1,917,612	1,917,612	1,917,612	1,917,612		
Avg. Monthly Evap. Capacity (Gals)			159,801	159,801	159,801	159,801	159,801		
Total Disposal Requirement									
RO Brine Total Gallons			34,271,266	27,968,153	24,460,551	93,821,250	157,080,365		
RO Brine Total KGallons			34,271	27,968	24,461	93,821	157,080		
Brine Concentration Factor			60%	60%	60%	60%	60%		
Total Concentrated Brine (Gals)			20,562,759	16,780,892	14,676,330	56,292,750	94,248,219		
Months of RO Operation			6.3	5.1	4.5	17.1	28.7		
Average Monthly Reqm't (Gallons)			3,263,930	3,290,371	3,261,407	3,291,974	3,283,910		
Monthly Balance for DDW (Gals)			3,104,129	3,130,570	3,101,606	3,132,173	3,124,109		
Total WDW Disposal (Gallons)			19,556,013	15,965,907	13,957,226	53,560,153	89,661,930		
Total WDW Disposal (KGals)			19,556	15,966	13,957	53,560	89,662		
Cost Assumptions:									
Power									
Avg Connected Hp			100.00	100.00	100.00	100.00	100.00		
WDW Avg Connected Hp			180.00	180.00	180.00	180.00	180.00		
Kwh's/Hp			0.830	0.830	0.830	0.830	0.830		
$/Kwh			$0.0365	$0.0365	$0.0365	$0.0365	$0.0365		
Gallons Per Minute			150	150	150	150	150		
Gallons Per Hour			9000	9000	9000	9000	9000		
Cost Per Hour ($)			$8.48	$8.48	$8.48	$8.48	$8.48		
Cost Per Gallon ($)			$0.0009	$0.0009	$0.0009	$0.0009	$0.0009		
Cost Per KGal ($)			$0.943	$0.943	$0.943	$0.943	$0.943		
Chemicals ($/Kgals)									
RO Antiscalent ($/Kgals)			$0.190	$0.190	$0.190	$0.190	$0.190		
WDW Antiscalent ($/Kgals)			$0.237	$0.237	$0.237	$0.237	$0.237		
Sulfuric Acid ($/Kgals)			$0.534	$0.534	$0.534	$0.534	$0.534		
Corrosion Inhibitor			$0.000	$0.000	$0.000	$0.000	$0.000		
Algacide			$0.111	$0.111	$0.111	$0.111	$0.111		
Repair & Maint ($/Kgals)			$0.077	$0.077	$0.077	$0.077	$0.077		
Total Cost Per KGal			$2.092	$2.092	$2.092	$2.092	$2.092		
TOTAL WASTE DISPOSAL WELL COST			$40,902	$33,393	$29,192	$112,022	$187,529	$0	$0
IV STABILIZATION MONITORING									
Operating Assumptions:									
Time of Stabilization (mos)	9	9	9	9	9	9	9		
Frequency of Analysis (mos)	3	3	3	3	3	3	3		
Total Sets of Analysis	3	3	3	3	3	3	3		
Cost Assumptions:									
Generator Rental per sample set	$280	$280	$280	$280	$280	$280	$280		
Analytical costs per set	$2,850	$4,050	$3,600	$2,850	$2,250	$3,750	$7,050		
Total Sampling & Analysis Cost ($)	$9,390	$12,990	$11,640	$9,390	$7,590	$12,090	$21,990		
Utilities (Power + Telephone per month)	$565	$565	$565	$565	$565	$565	$565		
Total Utilities Cost ($)	$5,085	$5,085	$5,085	$5,085	$5,085	$5,085	$5,085		
TOTAL STABILIZATION COST	$14,475	$18,075	$16,725	$14,475	$12,675	$17,175	$27,075	$0	$0

COGEMA Mining, Inc.
2003 Restoration and Reclamation Costs
Wyoming Operations
WORKSHEET 1
(Revision 2, 01-22-04)

GROUNDWATER RESTORATION	Irigaray Mine Unit(s) #1 Thru #5	Irigaray Mine Unit(s) #6 Thru #9	Christensen Mine Unit #2	Christensen Mine Unit #3	Christensen Mine Unit #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8
V LABOR (Irigaray and Christensen Combined)									
Cost Assumptions	Cost/Hour	Hours/Year	Cost						
Crew:									
1 Supervisor	$25.00	2080	$52,000						
4 Operators	$20.00	2080	$166,400						
2 Maintenance	$20.00	2080	$83,200						
2 Vehicles	$12.00	2080	$49,920						
Cost per Year			$351,520						
Time Required - Years (See Figure 1)	2.6								
TOTAL RESTORATION LABOR COST	$913,952								

	Irigaray Mine Unit(s) #1 Thru #9	Christensen Mine Unit #2 Thru #4	Total Christensen & Irigaray
VI RESTORATION CAPITAL REQUIREMENTS			
I Deep Disposal Well(s) - new		$0	
II Plug and Abandon CR DW-1		$73,950	
III Plug and Abandon CR 18-3		$66,250	
IV 500 GPM Reverse Osmosis Unit		$0	
Total	$0	$140,200	

	Irigaray Mine Unit(s) #1 Thru #5	Irigaray Mine Unit(s) #6 Thru #9	Christensen Mine Unit #2	Christensen Mine Unit #3	Christensen Mine Unit #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	TOTAL
SUMMARY:										
I GROUNDWATER SWEEP	$102,433	$48,862	$24,152	$19,622	$16,918	$60,012	$113,937	$0		
II REVERSE OSMOSIS	$106,512	$289,295	$201,309	$167,783	$143,869	$531,714	$885,785	$0		
III WASTE DISPOSAL WELL	$0	$0	$40,902	$33,393	$29,192	$112,022	$187,529	$0		
IV STABILIZATION	$14,475	$18,075	$16,725	$14,475	$12,675	$17,175	$27,075	$0		
SUB TOTAL	$223,419	$356,232	$283,088	$235,273	$202,654	$720,923	$1,214,327	$0		$3,235,915
V LABOR										$913,952
VI CAPITAL										$140,200
TOTAL GROUNDWATER RESTORATION COST										$4,290,067
Credit for Completion of Groundwater Sweep	$0	$0	$0	$0	$0	$0	$0	$0		$0
GRAND TOTAL										$4,290,067

COGEMA Mining, Inc.
2003 Restoration and Reclamation Costs
Wyoming Operations
WORKSHEET 2
(Revision 2, 01-22-04)

PLANT EQUIPMENT REMOVAL AND DISPOSAL	Irigaray							Christensen				
	Maint Area & Laboratory	Main Process Building	Expansion Building	Resin +Sand Filter Media	Dry Pack Area	Restoration Building	Sub Total	Satellite Plant	Resin + Sand Filter Media	Restoration Extension	Wellfield Modules	Sub Total
Volume (Yds^3)	40	200	180	110	40	40		91	197	42	55	
Quantity Per Truck Load (Yds^3)	20	20	20	20	20	20		20	20	20	20	
Number of Truck Loads	2.0	10.0	9.0	5.5	2.0	2.0		4.55	9.9	2.1	2.8	
I Decontamination Cost												
Decontamination Cost ($/Load)	$435	$435	$435	$435	$435	$435		$435	$435	$435	$435	
Percent Requiring Decontamination	20.0%	100.0%	100.0%	0.0%	100.0%	100.0%		100.0%	0.0%	100.0%	100.0%	
Total Cost	$174	$4,350	$3,915	$0	$870	$870	$10,179	$1,979	$0	$914	$1,196	$4,089
II Dismantle and Loading Cost												
Cost Per Truck Load ($)	$650	$650	$650	$650	$650	$650		$650	$650	$650	$650	
Total Cost	$1,300	$6,500	$5,850	$3,575	$1,300	$1,300	$19,825	$2,958	$6,403	$1,365	$1,788	$12,513
III Oversize Charges												
Percent Requiring Permits	40.0%	40.0%	40.0%	0.0%	60.0%	40.0%		40.0%	0.0%	40.0%	0.0%	
Cost Per Truck Load ($)	$326	$326	$326	$326	$326	$326		$326	$326	$326	$326	
Total Cost	$261	$1,304	$1,174	$0	$391	$261	$3,390	$593	$0	$274	$0	$867
IV Transportation & Disposal												
A. Landfill												
Percent To Be Shipped	80.0%	80.0%	80.0%	0.0%	50.0%	80.0%		80.0%	0.0%	80.0%	80.0%	
Transportation Cost Per Truck Load	$160	$160	$160	$160	$160	$160		$160	$160	$160	$160	
Transportation Cost	$256	$1,280	$1,152	$0	$160	$256		$582	$0	$269	$352	
Disposal Fee Per Cubic Yard	$12.00	$12.00	$12.00	$12.00	$12.00	$12.00		$12.00	$12.00	$12.00	$12.00	
Disposal Cost ($)	$384	$1,920	$1,728	$0	$240	$384		$874	$0	$403	$528	
Total Cost	$640	$3,200	$2,880	$0	$400	$640		$1,456	$0	$672	$880	
B. Licensed Site												
Percent To Be Shipped	20.0%	20.0%	20.0%	100.0%	50.0%	20.0%		20.0%	100.0%	20.0%	20.0%	
Transportation Cost Per Truck Load	$650	$650	$650	$650	$650	$650		$650	$650	$650	$650	
Transportation Cost	$260	$1,300	$1,170	$3,575	$650	$260		$592	$6,403	$273	$358	
Disposal Cost Per Cubic Foot ($)	$11.00	$11.00	$11.00	$11.00	$11.00	$11.00		$11.00	$11.00	$11.00	$11.00	
Quantity Per Truck Load (Yds^3)	20.0	20.0	20.0	20.0	20.0	20.0		20.0	20.0	20.0	20.0	
Quantity Per Truck Load (Ft^3)	540	540	540	540	540	540		540	540	540	540	
Disposal Cost	$2,376	$11,880	$10,692	$32,670	$5,940	$2,376		$5,405	$58,509	$2,495	$3,267	
Total Cost Licensed Site	$2,636	$13,180	$11,862	$36,245	$6,590	$2,636		$5,997	$64,912	$2,768	$3,625	
Total Cost Transportation & Disposal	$3,276	$16,380	$14,742	$36,245	$6,990	$3,276	$80,909	$7,453	$64,912	$3,440	$4,505	$80,309
TOTAL COST	$5,011	$28,534	$25,681	$39,820	$9,551	$5,707	$114,303	$12,983	$71,314	$5,992	$7,488	$97,777
TOTAL COST - IRIGARAY AND CHRISTENSEN												$212,081

COGEMA Mining, Inc.
2003 Restoration and Reclamation Costs
Wyoming Operations
WORKSHEET 3
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	Irigaray							Christensen						
	Maint Area & Laboratory	Warehouse & Offices	Main Process Building	Expansion Building	Dry Pack Area	Restoration Building	Sub Total	Satellite Plant	Wellfield Modules	Booster Pump Bldgs.	Restoration Extension	Office Building	Warehouse	Sub Total
BUILDING DEMOLITION AND DISPOSAL														
Structural Character	1 Story Steel Frame	1 Story Steel Frame	1 Story Steel Frame	1 Story Steel Frame	3 Story Steel/Masonry	1 Story Steel Frame		2 Story Steel Frame	1 Story Pre Fab (22)	1 Story Pre Fab (4)	2 Story Steel Frame	1 Story Pre-Fab	1 Story Steel Frame	
Demolition Volume (Ft^3)	179400	108720	430400	386400	126000	69640		192000	95040	46720	72000	64800	11000	
Cost of Demolition Per Ft^3	$0.1650	$0.1650	$0.1650	$0.1650	$0.1650	$0.1650		$0.1650	$0.1650	$0.1650	$0.1650	$0.1650	$0.1650	
Demolition Cost ($)	$29,601	$17,939	$71,016	$63,756	$20,790	$11,491	$214,592	$31,680	$15,682	$7,709	$11,880	$10,692	$1,815	$79,457
Factor For Gutting	15.0%	10.0%	30.0%	10.0%	20.0%	10.0%		20.0%	0.0%	0.0%	20.0%	10.0%	10.0%	
Cost For Gutting ($)	$4,440	$1,794	$21,305	$6,376	$4,158	$1,149	$39,221	$6,336	$0	$0	$2,376	$1,069	$182	$9,963
Weight (pounds)	158761	96212	380885	341947	111504	61628		169912	66660	28032	63717	38802	9735	
Weight per Truckload	40000	40000	40000	40000	40000	40000		40000	40000	40000	40000	40000	40000	
Number of Truckloads	4.0	2.4	9.5	8.5	2.8	1.5		4.2	1.7	0.7	1.6	1.0	0.2	
Transportation Cost per Truckload	$160	$160	$160	$160	$160	$160		$160	$160	$160	$160	$2.58	$2.58	
Transportation Cost ($)	$635	$385	$1,524	$1,368	$446	$247	$4,604	$680	$267	$112	$255	$3	$1	$1,316
Disposal Cost per Truckload (25 CY)	$300.00	$300.00	$300.00	$300.00	$300.00	$300.00		$300.00	$300.00	$300.00	$300.00	$300.00	$300.00	
Disposal Cost ($)	$1,191	$722	$2,857	$2,565	$836	$462	$8,632	$1,274	$500	$210	$478	$291	$73	$2,826
TOTAL COST	$35,867	$20,839	$96,701	$74,064	$26,230	$13,348	$267,050	$39,970	$16,448	$8,031	$14,989	$12,055	$2,070	$93,563
TOTAL COST IRIGARAY AND CHRISTENSEN														$360,613
CONCRETE DECONTAMINATION, DEMOLITION & DISPOSAL														
Area (Ft^2)	8020	7100	17600	18400	5600	3600		9600	0	1440	3600	0	1000	
Average Thickness (Ft)	0.5	0.5	0.5	0.5	1	0.5		0.5	0.0	0.5	0.5	0.0	0.5	
Volume (Ft^3)	4010	3550	8800	9200	5600	1800		4800	0	720	1800	0	500	
Percent Requiring Decontamination	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%		100.0%	0.0%	100.0%	100.0%	0.0%	0.0%	
Percent Decontaminated	0.0%	0.0%	75.0%	75.0%	40.0%	75.0%		75.0%	0.0%	100.0%	100.0%	0.0%	0.0%	
Decontamination ($/$Ft^2$)	$0.134	$0.134	$0.134	$0.134	$0.134	$0.134		$0.134	$0.134	$0.134	$0.134	$0.134	$0.134	
Decontamination Cost	$0	$0	$1,769	$1,849	$300	$362	$4,280	$965	$0	$193	$482	$0	$0	$1,640
Demolition ($/$Ft^2$)	$3.05	$3.05	$3.05	$3.05	$3.05	$3.05		$3.05	$3.05	$3.05	$3.05	$3.05	$3.05	
Demolition Cost	$24,461	$21,655	$53,680	$56,120	$17,080	$10,980	$183,976	$29,280	$0	$4,392	$10,980	$0	$3,050	$47,702
Transportation & Disposal														
A. Onsite Disposal														
Percent to be Disposed Onsite	100%	100%	90%	90%	40%	90%		90%	0%	100%	100%	0%	100%	
Transportation Cost	$0	$0	$0	$0	$0	$0		$0	$0	$0	$0	$0	$0	
Disposal Cost per Cubic Foot	$0.230	$0.230	$0.230	$0.230	$0.230	$0.230		$0.230	$0.230	$0.230	$0.230	$0.230	$0.230	
Disposal Cost ($)	$922	$817	$1,822	$1,904	$515	$373	$6,353	$994	$0	$166	$414	$0	$115	$1,688
B. Licensed Site														
Percent to be Shipped	0%	0%	10%	10%	60%	10%		10%	100%	0%	0%	100%	0%	
Transportation Cost per Truckload	$650	$650	$650	$650	$650	$650		$650	$650	$650	$650	$650	$650	
Transportation Cost ($)	$0	$0	$1,059	$1,107	$4,044	$217	$6,428	$578	$0	$0	$0	$0	$0	$578
Disposal Cost per Cubic Foot	$3.70	$3.70	$3.70	$3.70	$3.70	$3.70		$3.70	$3.70	$3.70	$3.70	$3.70	$3.70	
Quantity Per Truck Load (Yds^3)	20	20	20	20	20	20		20	20	20	20	20	20	
Quantity Per Truck Load (Ft^3)	540	540	540	540	540	540		540	540	540	540	540	540	
Disposal Cost ($)	$0	$0	$3,256	$3,404	$12,432	$666	$19,758	$1,776	$0	$0	$0	$0	$0	$1,776
TOTAL COST	$25,383	$22,472	$61,586	$64,385	$34,372	$12,597	$220,794	$33,592	$0	$4,751	$11,876	$0	$3,165	$53,384
TOTAL COST IRIGARAY AND CHRISTENSEN														$274,178

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		Irigaray							Christensen						
		Maint Area & Laboratory	Warehouse & Offices	Main Process Building	Expansion Building	Dry Pack Area	Restoration Building	Sub Total	Satellite Plant	Wellfield Modules	Booster Pump Bldgs.	Restoration Extension	Office Building	Warehouse	Sub Total
SOIL REMOVAL & DISPOSAL															
Assume removal of 3" of Contaminated Soil under Primary Areas, Disposal at a Licensed facility.															
Removal with Loader ($75/hr)	$75	$0	$0	$1,222	$1,278	$389	$250	$3,139	$667	$0	$0	$0	$0	$0	$667
Quantity to be Shipped (Ft^3)		0	0	4400	4600	1400	900		2400	0	0	0	0	0	
Transportation Cost per Truckload		$650	$650	$650	$650	$650	$650		$650	$650	$650	$650	$650	$650	
Transportation Cost ($)		$0	$0	$5,296	$5,537	$1,685	$1,083	$13,602	$2,889	$0	$0	$0	$0	$0	$2,889
Disposal fee Per Cubic Foot($)		$3.70	$3.70	$3.70	$3.70	$3.70	$3.70		$3.70	$3.70	$3.70	$3.70	$3.70	$3.70	
Quantity per Truckload (Ft^3)		540	540	540	540	540	540		540	540	540	540	540	540	
Disposal Cost ($)		$0	$0	$16,280	$17,020	$5,180	$3,330	$41,810	$8,880	$0	$0	$0	$0	$0	$8,880
Removal, NPDES Pts.															
Quantity to be Shipped (Ft^3)				559					5,030						
Transportation Cost per Truckload		$650	$650	$650	$650	$650	$650		$650	$650	$650	$650	$650	$650	
Transportation Cost ($)		$0	$0	$673	$0	$0	$0	$673	$6,055	$0	$0	$0	$0	$0	$6,055
Disposal fee Per Cubic Foot($)		$3.70	$3.70	$3.70	$3.70	$3.70	$3.70		$3.70	$3.70	$3.70	$3.70	$3.70	$3.70	
Quantity per Truckload (Ft^3)		540	540	540	540	540	540		540	540	540	540	540	540	
Disposal Cost ($)		$0	$0	$2,068	$0	$0	$0	$2,068	$18,611	$0	$0	$0	$0	$0	$18,611
Total Cost		$0	$0	$25,539	$23,835	$7,254	$4,663	$61,291	$37,102	$0	$0	$0	$0	$0	$37,102
TOTAL COST		$0	$0	$25,539	$23,835	$7,254	$4,663	$61,291	$37,102	$0	$0	$0	$0	$0	$37,102
TOTAL COST IRIGARAY AND CHRISTENSEN															$98,393
RADIATION SURVEY															
Area required (acres)		0.18	0.16	0.40	0.42	0.13	0.08		0.22	0.00	0.03	0.08	0.00	0.02	
Survey Cost ($/acre)		$520.00	$520.00	$520.00	$520.00	$520.00	$520.00		$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	
TOTAL SURVEY COST ($)		$96		$210	$220	$67	$43	$636	$115	$0	$17	$43	$0	$12	$187
TOTAL COST		$61,346	$43,311	$184,036	$162,504	$67,923	$30,652	$549,771	$110,779	$16,448	$12,799	$26,908	$12,055	$5,247	$184,236
TOTAL COST IRIGARAY AND CHRISTENSEN															$734,007

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POND RECLAMATION COST	Ingaray							517				Christensen					
	Pond A	Pond B	Pond C	Pond D	Pond E	Pond RA	Pond RB	Pond 1	Pond 2A	Pond 2B	Pond 3	Brine Pond 1	Brine Pond 2	Brine Pond 3	Brine Pond 4	Permeate Pond	
POND SLUDGE:																	
Average Sludge Depth (Ft)	0.188	0.156	0.123	0.135	0.227	0.188	0.156					0.166	0.222	0.143	0.068	0.000	
Average Area of Sludge (Ft^2)	50,845	50,604	62,291	62,291	29,583	50,845	50,604					20,909	20,909	20,909	20,909	-	
Volume of Sludge (Ft^3)	9,583	7,907	7,683	8,435	6,729	9,583	7,907					3,466	4,651	2,983	1,414	-	
Volume of Sludge (Yds^3)	355	293	285	312	249	355	293	0	0	0	0	128	172	110	52	0	
Volume of Sludge Per Truck Load (Yds^3)	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	
# of Truck Loads of Sludge	17.8	14.7	14.3	15.6	12.5	17.8	14.7	0.0	0.0	0.0	0.0	6.4	8.6	5.5	2.6	0.0	
Sludge Handling Cost Per Load ($)	$240.00	$240.00	$240.00	$240.00	$240.00	$240.00	$240.00	$240.00	$240.00	$240.00	$240.00	$240.00	$240.00	$240.00	$240.00	$240.00	
Total Sludge Handling Cost ($)	$4,272	$3,528	$3,432	$3,744	$3,000	$4,272	$3,528	$0	$0	$0	$0	$1,536	$2,064	$1,320	$624	$0	
Transportation & Disposal																	
Percent To Be Shipped to Licensed Site	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Transportation Cost per Truckload	$650	$650	$650	$650	$650	$650	$650	$650	$650	$650	$650	$650	$650	$650	$650	$650	
Transportation Cost ($)	$11,570	$9,555	$9,295	$10,140	$8,125	$11,570	$9,555	$0	$0	$0	$0	$4,160	$5,590	$3,575	$1,690	$0	
Disposal Cost Per Cubic Foot ($)	$11.00	$11.00	$11.00	$11.00	$11.00	$11.00	$11.00	$11.00	$11.00	$11.00	$11.00	$11.00	$11.00	$11.00	$11.00	$11.00	
Quantity Per Truck Load (Yds^3)	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	
Quantity Per Truck Load (Ft^3)	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	
Disposal Cost ($)	$105,732	$87,318	$84,942	$92,664	$74,250	$105,732	$87,318	$0	$0	$0	$0	$38,016	$51,084	$32,670	$15,444	$0	
Total Transportation & Disposal ($)	$117,302	$96,873	$94,237	$102,804	$82,375	$117,302	$96,873	$0	$0	$0	$0	$42,176	$56,674	$36,245	$17,134	$0	
TOTAL SLUDGE COST ($)	$121,574	$100,401	$97,669	$106,548	$85,375	$121,574	$100,401	$0	$0	$0	$0	$43,712	$58,738	$37,565	$17,758	$0	$891,315
POND LINER:																	
Total Pond Area (Acres)	1.75	1.72	1.75	1.72	0.78	2.17	2.17					1.10	1.10	1.10	1.10	0.00	
Total Pond Area (Ft^2)	76230	74923.2	76230	74923.2	33976.8	94525.2	94525.2	0	0	0	0	47916	47916	47916	47916	0	
Factor For Sloping Sides	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	0.0%	
Total Liner Area (Ft^2)	91476	89908	91476	89908	40772	113430	113430	0	0	0	0	57499	57499	57499	57499	0	
Liner Thickness (Millimeters)	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	0	
Liner Thickness (Inches)	0.1181	0.1181	0.1181	0.1181	0.1181	0.1181	0.1181	0.1181	0.1181	0.1181	0.1181	0.1181	0.1181	0.1181	0.1181	0	
Liner Thickness (Ft)	0.0098	0.0098	0.0098	0.0098	0.0098	0.0098	0.0098	0.0098	0.0098	0.0098	0.0098	0.0098	0.0098	0.0098	0.0098	0	
"Swell" Factor	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	0.0%	
Liner Volume (Ft^3)	1121	1101	1121	1101	499	1390	1390	0	0	0	0	704	704	704	704	0	
Truck Loads of Liner	2.1	2.0	2.1	2.0	0.9	2.6	2.6	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3	0.0	
Liner Handling Cost ($)																	
Labor Crew Cost per Hour ($)	$90	$90	$90	$90	$90	$90	$90	$90	$90	$90	$90	$90	$90	$90	$90	$0	
Hours per Load	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	
Liner Handling Cost Per Load ($)	$180.00	$180.00	$180.00	$180.00	$180.00	$180.00	$180.00	$180.00	$180.00	$180.00	$180.00	$180.00	$180.00	$180.00	$180.00	$0.00	
Total Liner Handling Cost ($)	$378	$360	$378	$360	$162	$468	$468	$0	$0	$0	$0	$234	$234	$234	$234	$0	
Transportation & Disposal																	
Percent To Be Shipped to Licensed Site	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Transportation Cost per Truckload	$650	$650	$650	$650	$650	$650	$650	$650	$650	$650	$650	$650	$650	$650	$650	$650	
Transportation Cost ($)	$1,365	$1,300	$1,365	$1,300	$585	$1,690	$1,690	$0	$0	$0	$0	$845	$845	$845	$845	$0	
Disposal Cost Per Cubic Foot ($)	$11.00	$11.00	$11.00	$11.00	$11.00	$11.00	$11.00	$11.00	$11.00	$11.00	$11.00	$11.00	$11.00	$11.00	$11.00	$11.00	
Quantity Per Truck Load (Ft^3)	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	
Disposal Cost ($)	$12,474	$11,880	$12,474	$11,880	$5,346	$15,444	$15,444	$0	$0	$0	$0	$7,722	$7,722	$7,722	$7,722	$0	
Total Transportation & Disposal ($)	$13,839	$13,180	$13,839	$13,180	$5,931	$17,134	$17,134	$0	$0	$0	$0	$8,567	$8,567	$8,567	$8,567	$0	
TOTAL LINER COST ($)	$14,217	$13,540	$14,217	$13,540	$6,093	$17,602	$17,602	$0	$0	$0	$0	$8,801	$8,801	$8,801	$8,801	$0	$132,015
POND BACKFILL:																	
Backfill required (Yds^3)	8740	8580	8740	8580	2517	14617	16319	2345	1837	1537	163	9048	9048	9048	9048	18070	
Backfill Cost ($/Yd^3$)	$1.00	$1.00	$1.00	$1.00	$1.00	$1.00	$1.00	$1.00	$1.00	$1.00	$1.00	$1.00	$1.00	$1.00	$1.00	$1.00	
TOTAL BACKFILL COST ($)	$8,740	$8,580	$8,740	$8,580	$2,517	$14,617	$16,319	$2,345	$1,837	$1,537	$163	$9,048	$9,048	$9,048	$9,048	$18,070	$128,237

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POND RECLAMATION COST	Irigaray							5I7				Christensen					
	Pond A	Pond B	Pond C	Pond D	Pond E	Pond RA	Pond RB	Pond 1	Pond 2A	Pond 2B	Pond 3	Brine Pond 1	Brine Pond 2	Brine Pond 3	Brine Pond 4	Permeate Pond	
RADIATION SURVEY																	
Areal required (acres)	1.75	1.72	1.75	1.72	0.78	2.17	2.17	0.00	0.00	0.00	0.00	1.10	1.10	1.10	1.10	0	
Survey Cost ($/acre)	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	
TOTAL SURVEY COST ($)	$910	$894	$910	$894	$406	$1,128	$1,128	$0	$0	$0	$0	$572	$572	$572	$572	$0	$8,558
LEAK DETECTION SYSTEM REMOVAL																	
Volume of Gravel and Piping (Ft^3) (Assume 3")			14337	13851				0									
Quantity per Truckload (Ft^3)			540	540				540									
Quantity to be Shipped to Licensed Site (Loads)			26.6	25.7				0.0									
Transportation Cost per Truckload			$650	$650				$650									
Transportation Cost ($)			$17,258	$16,673				$0									
Handling Cost per load			$6,372	$6,156				$0									
Disposal Fee per Cubic Foot ($)			$3.70	$3.70				$3.70									
Disposal Cost ($)			$53,047	$51,249				$0									
TOTAL LEAK DETECTION SYSTEM REMOVAL	$0	$0	$76,676	$74,077	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$150,754
TOTAL POND RECLAMATION COST	$145,441	$123,415	$198,212	$203,639	$94,391	$154,921	$135,450	$2,345	$1,837	$1,537	$163	$62,133	$77,159	$55,986	$36,179	$18,070	$1,310,879

SUMMARY - IRIGARAY:

TOTAL SLUDGE COST ($)	$733,542
TOTAL LINER COST ($)	$96,811
TOTAL BACKFILL COST ($)	$73,975
TOTAL RADIATION SURVEY COST ($)	$6,270
LEAK DETECTION SYSTEM REMOVAL	$150,754
TOTAL POND RECLAMATION COST	$1,061,352

SUMMARY - CHRISTENSEN:

TOTAL SLUDGE COST ($)	$157,773
TOTAL LINER COST ($)	$35,204
TOTAL BACKFILL COST ($)	$54,262
TOTAL RADIATION SURVEY COST ($)	$2,288
LEAK DETECTION SYSTEM REMOVAL	$0
TOTAL POND RECLAMATION COST	$249,527

TOTAL PROJECT COST - CR and IR ($)	$1,310,879

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WELL PLUGGING AND ABANDONMENT

	Irigaray				Christensen			
	Mine Units #1 Thru #9	517 USMT Test Sites	Monitor/ Trend	Sub Total	Mine Units #2 Thru #7	Monitor/ Trend	Misc. Regional	Sub Total
Number of Wells	1064	11	314	1389	2062	327	137	2526
Average Depth	250	250	250		410	410	410	
Average Diameter	4.5	4.5	4.5		4.5	4.5	4.5	
Materials								
Bentonite Chips Required (Ft^3/Well)	11.4	11.4	11.4		11.4	11.4	11.4	
Bags of Chips Required/Well	15.0	15.0	15.0		15.0	15.0	15.0	
Cost Per Bag ($)	$4.50	$4.50	$4.50		$4.50	$4.50	$4.50	
Cost/Well Bentonite Chips ($)	$67.50	$67.50	$67.50		$67.50	$67.50	$67.50	
Gravel Fill Required (Ft^3/Well)	15.7	15.7	15.7		33.6	33.6	33.6	
Gravel Fill Required (Yd^3/Well)	0.58	0.58	0.58		1.24	1.24	1.24	
Cost of Gravel/Yd^3 ($)	$20.00	$20.00	$20.00		$20.00	$20.00	$20.00	
Cost/Well Gravel Fill ($)	$11.63	$11.63	$11.63		$24.89	$24.89	$24.89	
Cement Cone/Markers Req'd/Well	1.0	1.0	1.0		1.0	1.0	1.0	
Cost of Cement Cones/Markers ($)	$4.00	$4.00	$4.00		$4.00	$4.00	$4.00	
Total Materials Cost per Well	$83.13	$83.13	$83.13		$96.39	$96.39	$96.39	
Labor								
Hours Required per Well	1.0	1.0	1.0		1.0	1.0	1.0	
Labor Cost per Hour	$60.00	$60.00	$60.00		$60.00	$60.00	$60.00	
Total Labor Cost per Well ($)	$60.00	$60.00	$60.00		$60.00	$60.00	$60.00	
Equipment Rental								
Hours Required per Well	1.0	1.0	1.0		1.0	1.0	1.0	
Backhoe w/Operator Cost/Hr ($)	$38.50	$38.50	$38.50		$38.50	$38.50	$38.50	
Total Equipment Cost per Well ($)	$38.50	$38.50	$38.50		$38.50	$38.50	$38.50	
Total Cost per Well ($)	$181.63	$181.63	$181.63		$194.89	$194.89	$194.89	
TOTAL WELL ABANDONMENT COST ($)	$193,254	$1,998	$57,032	$252,284	$401,861	$63,729	$26,700	$492,289
GRAND TOTAL IRIGARAY AND CHRISTENSEN								$744,573

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WELLFIELD EQUIPMENT REMOVAL & DISPOSAL

	Irigaray Mine Unit(s) #1 Thru #9	Christensen Mine Units #2 Thru #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Total Christensen & Irigaray
I Wellfield Piping							
A. Removal							
Length/Well (Ft)	100	300	300	300			
Total Number of Wells	1064	1021	494	446			
Total Quantity (Ft)	106400	306300	148200	133800			
Cost of Removal ($/Ft)	$0.202	$0.202	$0.202	$0.202			
Cost of Removal ($)	$21,493	$61,873	$29,936	$27,028			$140,329
Average OD (Inches)	3.0	3.0	3.0	3.0			
Chipped Volume Reduction (Ft^3/Ft)	0.016	0.016	0.016	0.016			
Chipped Volume (Ft^3)	1,702	4,901	2,371	2,141			
Quantity Per Truck Load (Ft^3)	540	540	540	540			
Total Number of Truck Loads	3.2	9.1	4.4	4.0			
B. Survey & Decontamination							
Percent Requiring Decontamination	0%	0%	0%	0%			
Loads for Decontamination	0.0	0.0	0.0	0.0			
Cost for Decontamination ($/Load)	$435.00	$435.00	$435.00	$435.00			
Cost for Decontamination ($)	$0	$0	$0	$0			$0
C. Transport & Disposal							
1.) Landfill							
a. Transportation							
Percent To Be Shipped	0.0%	0.0%	0.0%	0.0%			
Loads To Be Shipped	0.0	0.0	0.0	0.0			
Transportation Cost per Load	$160	$160	$160	$160			
Transportation Cost ($)	$0	$0	$0	$0			$0
b. Disposal							
Disposal Fee Per Yd^3	$12.00	$12.00	$12.00	$12.00			
Yds^3 Per Load	20	20	20	20			
Disposal Cost ($)	$0	$0	$0	$0			
Total Cost - Landfill	$0	$0	$0	$0			$0
2.) Licensed Site							
a. Transportation							
Percent To Be Shipped	100.0%	100.0%	100.0%	100.0%			
Loads To Be Shipped	3.2	9.1	4.4	4.0			
Transportation Cost per Load	$650	$650	$650	$650			
Transportation Cost ($)	$2,080	$5,915	$2,860	$2,600			$13,455
b. Disposal							
Disposal Cost Per Ft^3	$11.00	$11.00	$11.00	$11.00			
Disposal Fee Per Yd^3	$297.00	$297.00	$297.00	$297.00			
Quantity Per Truck Load (Yds^3)	20	20	20	20			
Disposal Cost ($)	$19,008	$54,054	$26,136	$23,760			$122,958
Total Cost - Licensed Site	$21,088	$59,969	$28,996	$26,360			$136,413
Total Cost - Transport & Disposal	$21,088	$59,969	$28,996	$26,360			$136,413
Total Cost - WF Piping Removal & Disposal	$42,581	$121,842	$58,932	$53,388	$0	$0	$276,742

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WELLFIELD EQUIPMENT REMOVAL & DISPOSAL	Irigaray Mine Unit(s) #1 Thru #9	Christensen Mine Units #2 Thru #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Total Christensen & Irigaray
II Production Well Pumps							
A. Pump and Tubing Removal							
Number of Production Wells	424	443	217	202			
Cost of Removal ($/well)	$22.50	$22.50	$22.50	$22.50			
Cost of Removal ($)	$9,540	$9,968	$4,883	$4,545			$28,935
Number of Pumps Per Truck Load	180	180	180	180			
Number of Truck Loads (Pumps)	2.4	2.5	1.2	1.1			
B. Survey & Decontamination (Pumps)							
Percent Requiring Decontamination	50.0%	50.0%	50.0%	50.0%			
Loads for Decontamination	1.2	1.3	0.6	0.6			
Cost for Decontamination ($/Load)	$435.00	$435.00	$435.00	$435.00			
Cost for Decontamination ($)	$522	$566	$261	$261			$1,610
C. Tubing Volume Reduction & Loading							
Length per Well (Ft)	100	300	300	450			
Total Quantity (Ft)	42,400	132,900	65,100	90,900			
Cost of Removal ($/Ft)	$0.025	$0.025	$0.025	$0.025			
Cost of Removal ($)	$1,060	$3,323	$1,628	$2,273			$8,283
Average OD (Inches)	3.0	3.0	3.0	3.0			
Chipped Volume Reduction (Ft^3/Ft)	0.016	0.016	0.016	0.016			
Chipped Volume (Ft^3)	678	2,126	1,042	1,454			
Quantity per Truckload (Ft^3)	540	540	540	540			
Number of Truck Loads	1.3	3.9	1.9	2.7			
D. Transport & Disposal							
1.) Landfill							
a. Transportation							
Percent To Be Shipped (Pumps)	50.0%	50.0%	50.0%	50.0%			
Loads To Be Shipped	1.2	1.3	0.6	0.6			
Transportation Cost per Load	$160	$160	$160	$160			
Transportation Cost ($)	$192	$208	$96	$96			$592
b. Disposal							
Disposal Fee Per Yd^3	$12.00	$12.00	$12.00	$12.00			
Yds^3 Per Load	20	20	20	20			
Disposal Cost ($)	$288	$312	$144	$144			$888
Total Cost - Landfill	$480	$520	$240	$240			$1,480
2.) Licensed Site							
a. Transportation							
Percent To Be Shipped (Pumps)	50.0%	50.0%	50.0%	50.0%			
Percent To Be Shipped (Tubing)	100.0%	100.0%	100.0%	100.0%			
Loads To Be Shipped	2.5	5.2	2.5	3.2			
Transportation Cost per Load	$650	$650	$650	$650			
Transportation Cost ($)	$1,597	$3,372	$1,644	$2,108			$8,721
b. Disposal							
Disposal Cost Per Ft^3	$11.00	$11.00	$11.00	$11.00			
Disposal Fee Per Yd^3	$297.00	$297.00	$297.00	$297.00			
Quantity Per Truck Load (Yds^3)	20	20	20	20			
Disposal Cost ($)	$14,590	$30,815	$15,022	$19,265			$79,693
Total Cost - Licensed Site	$16,187	$34,187	$16,665	$21,374			$88,413
Total Cost - Transport & Disposal	$16,667	$34,707	$16,905	$21,614			$89,893
Total Cost - Pump Removal & Disposal	$27,789	$48,563	$23,676	$28,692	$0	$0	$128,720

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WELLFIELD EQUIPMENT REMOVAL & DISPOSAL	Irigaray Mine Unit(s) #1 Thru #9	Christensen Mine Units #2 Thru #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Total Christensen & Irigaray
III Surface Trunkline Piping							
A. Removal							
Total Quantity (Ft)	44700	0	0	0	0	0	
Cost of Removal ($/Ft)	$0.146	$0.146	$0.146	$0.146	$0.146	$0.146	
Cost of Removal ($)	$6,526	$0	$0	$0	$0	$0	$6,526
Average OD (Inches)	8.750	8.750	0.000	0.000	0.000	0.000	
Chipped Volume Reduction (Ft^3/Ft)	0.088	0.088	0.088	0.088	0.088	0.088	
Chipped Volume (Ft^3)	3934	0	0	0	0	0	
Quantity Per Truck Load (Ft^3)	540	540	540	540	0	0	
Total Number of Truck Loads	7.3	0.0	0.0	0.0	0.0	0.0	
B. Survey & Decontamination							
Percent Requiring Decontamination	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Loads for Decontamination	0.0	0.0	0.0	0.0	0.0	0.0	
Cost for Decontamination ($/Load)	$435.00	$435.00	$435.00	$435.00	$0.00	$0.00	
Cost for Decontamination ($)	$0	$0	$0	$0	$0	$0	$0
C. Transport & Disposal							
1.) Landfill							
a. Transportation							
Percent To Be Shipped	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Loads To Be Shipped	0.0	0.0	0.0	0.0	0.0	0.0	
Transportation Cost per Load	$160	$160	$160	$160	$0	$0	
Transportation Cost ($)	$0	$0	$0	$0	$0	$0	$0
b. Disposal							
Disposal Fee Per Yd^3	$12.00	$12.00	$12.00	$12.00	$0.00	$0.00	
Yds^3 Per Load	20	20	20	20	0	0	
Disposal Cost ($)	$0	$0	$0	$0	$0	$0	$0
Total Cost - Landfill	$0	$0	$0	$0	$0	$0	$0
2.) Licensed Site							
a. Transportation							
Percent To Be Shipped	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Loads To Be Shipped	7.3	0.0	0.0	0.0	0.0	0.0	
Transportation Cost per Load	$650	$650	$650	$650	$0	$0	
Transportation Cost ($)	$4,735	$0	$0	$0	$0	$0	$4,735
b. Disposal							
Disposal Cost Per Ft^3	$11.00	$11.00	$11.00	$11.00	$0.00	$0.00	
Disposal Fee Per Yd^3	$297.00	$297.00	$297.00	$297.00	$0.00	$0.00	
Quantity Per Truck Load (Yds^3)	20	20	20	20	0	0	
Disposal Cost ($)	$43,270	$0	$0	$0	$0	$0	$43,270
Total Cost - Licensed Site	$48,004	$0	$0	$0	$0	$0	$48,004
Total Cost - Transport & Disposal	$48,004	$0	$0	$0	$0	$0	$48,004
Total Cost - Surface Trunkline Removal & Disposal	$54,531	$0	$0	$0	$0	$0	$54,531

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WELLFIELD EQUIPMENT REMOVAL & DISPOSAL	Irigaray Mine Unit(s) #1 Thru #9	Christensen Mine Units #2 Thru #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Total Christensen & Irigaray
IV Buried Trunkline							
A. Removal							
Total Quantity (Ft)	7300	11565	24500	47000	0	0	
Cost of Removal ($/Ft)	$3.12	$3.12	$3.12	$3.12	$3.12	$3.12	
Cost of Removal ($)	$22,776	$36,083	$76,440	$146,640	$0	$0	$281,939
Average OD (Inches)	8.750	8.750	8.750	12.000	12.000	12.000	
Chipped Volume Reduction (Ft^3/Ft)	0.088	0.088	0.088	0.130	0.130	0.130	
Chipped Volume (Ft^3)	642	1018	2156	6110	0	0	
Quantity Per Truck Load (Ft^3)	540	540	540	540	0	0	
Number of Truck Loads	1.2	1.9	4.0	11.3	0.0	0.0	
B. Survey & Decontamination							
Percent Requiring Decontamination	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Loads for Decontamination	0.0	0.0	0.0	0.0	0.0	0.0	
Cost for Decontamination. ($/Load)	$435.00	$435.00	$435.00	$435.00	$0.00	$0.00	
Cost for Decontamination. ($)	$0	$0	$0	$0	$0	$0	$0
C. Transport & Disposal							
1.) Landfill							
a. Transportation							
Percent To Be Shipped	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Loads To Be Shipped	0.0	0.0	0.0	0.0	0.0	0.0	
Transportation Cost per Load	$160	$160	$160	$160	$0	$0	
Transportation Cost ($)	$0	$0	$0	$0	$0	$0	$0
b. Disposal							
Disposal Fee Per Yd^3	$12.00	$12.00	$12.00	$12.00	$0.00	$0.00	
Yds^3 Per Load	20	20	20	20	0	0	
Disposal Cost ($)	$0	$0	$0	$0	$0	$0	$0
Total Cost - Landfill	$0	$0	$0	$0	$0	$0	$0
2.) Licensed Site							
a. Transportation							
Percent To Be Shipped	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Loads To Be Shipped	1.2	1.9	4.0	11.3	0.0	0.0	
Transportation Cost per Load	$650	$650	$650	$650	$0	$0	
Transportation Cost ($)	$780	$1,235	$2,600	$7,345	$0	$0	$11,960
b. Disposal							
Disposal Cost Per Ft^3	$11.00	$11.00	$11.00	$11.00	$0.00	$0.00	
Disposal Fee Per Yd^3	$297.00	$297.00	$297.00	$297.00	$0.00	$0.00	
Quantity Per Truck Load (Yds^3)	20	20	20	20	0	0	
Disposal Cost ($)	$7,128	$11,286	$23,760	$67,122	$0	$0	$109,296
Total Cost - Licensed Site	$7,908	$12,521	$26,360	$74,467	$0	$0	$121,256
Total Cost - Transport & Disposal	$7,908	$12,521	$26,360	$74,467	$0	$0	$121,256
Total Cost - Buried Trunkline Removal & Disposal	$30,684	$48,604	$102,800	$221,107	$0	$0	$403,195

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WELLFIELD EQUIPMENT REMOVAL & DISPOSAL	Irigaray Mine Unit(s) #1 Thru #9	Christensen Mine Units #2 Thru #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Total Christensen & Irigaray
V Manholes							
A. Removal							
Total Quantity	5	8	5	11	0	0	
Cost of Removal ($ Each)	$117.00	$117.00	$117.00	$117.00	$117.00	$117.00	
Cost of Removal ($)	$585	$936	$585	$1,287	$0	$0	$3,393
Quantity Per Truck Load	10	10	10	10	10	10	
Number of Truck Loads	0.5	0.8	0.5	1.1	0.0	0.0	
B. Survey & Decontamination							
Percent Requiring Decontamination	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Loads for Decontamination	0.0	0.0	0.0	0.0	0.0	0.0	
Cost for Decontamination ($/Load)	$435.00	$435.00	$435.00	$435.00	$0.00	$0.00	
Cost for Decontamination ($)	$0	$0	$0	$0	$0	$0	$0
C. Transport & Disposal							
1.) Landfill							
a. Transportation							
Percent To Be Shipped	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Loads To Be Shipped	0.0	0.0	0.0	0.0	0.0	0.0	
Transportation Cost per Load	$160	$160	$160	$160	$0	$0	
Transportation Cost ($)	$0	$0	$0	$0	$0	$0	$0
b. Disposal							
Disposal Fee Per Yd^3 ($)	$12.00	$12.00	$12.00	$12.00	$0.00	$0.00	
Yds^3 Per Load	20	20	20	20	0	0	
Disposal Cost ($)	$0	$0	$0	$0	$0	$0	$0
Total Cost - Landfill	$0	$0	$0	$0	$0	$0	$0
2.) Licensed Site							
a. Transportation							
Percent To Be Shipped	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Loads To Be Shipped	0.0	0.0	0.0	0.0	0.0	0.0	
Transportation Cost per Load	$650	$650	$650	$650	$0	$0	
Transportation Cost ($)	$0	$0	$0	$0	$0	$0	$0
b. Disposal							
Disposal Cost Per Ft^3	$11.00	$11.00	$11.00	$11.00	$0.00	$0.00	
Disposal Fee Per Yd^3	$297.00	$297.00	$297.00	$297.00	$0.00	$0.00	
Quantity Per Truck Load (Yds^3)	20	20	20	20	0	0	
Disposal Cost ($)	$0	$0	$0	$0	$0	$0	$0
Total Cost - Licensed Site	$0	$0	$0	$0	$0	$0	$0
Total Cost - Transport & Disposal	$0	$0	$0	$0	$0	$0	$0
Total Cost Manhole Removal & Disposal	$585	$936	$585	$1,287	$0	$0	$3,393
TOTAL COST - WELLFIELD EQUIP REMOVAL & DISP	$156,169	$219,944	$185,994	$304,474	$0	$0	$866,581

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TOPSOIL REPLACEMENT & REVEGETATION

	Irigaray Mine Unit(s) #1 Thru #9	Christensen Mine Units #2 Thru #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Total Christensen & Irigaray
I Process Plant and Office Building							
A. Topsoil Handling & Grading							
Affected Area (Acres)	5.0	2.5	0.0	0.0	0.0	0.0	
Average Affected Thickness (Ins)	12.0	12.0	0.0	0.0	0.0	0.0	
Topsoil Volume (Yds^3)	8067	4033	0	0	0	0	
Unit Cost - Haul/Place ($/$Yd^3$)	$1.00	$1.00	$1.00	$1.00	$1.00	$1.00	
Topsoil Handling Cost ($)	$8,067	$4,033	$0	$0	$0	$0	
Unit Cost - Grading ($/Ac)	$38.45	$38.45	$38.45	$38.45	$38.45	$38.45	
Grading Cost ($)	$192	$96	$0	$0	$0	$0	
Sub Total - Topsoil	$8,259	$4,129	$0	$0	$0	$0	$12,388
B. Radiation Survey & Soil Analysis							
Unit Cost ($/Ac)	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	
Sub Total - Survey & Analysis	$2,600	$1,300	$0	$0	$0	$0	$3,900
C. Revegetation							
Fertilizer ($/Ac)	$46.49	$46.49	$46.49	$46.49	$46.49	$46.49	
Seeding Prep & Seeding ($/Ac)	$168.68	$168.68	$168.68	$168.68	$168.68	$168.68	
Mulching & Crimping ($/Ac)	$276.54	$276.54	$276.54	$276.54	$276.54	$276.54	
Sub Total Cost/Acre	$491.71	$491.71	$491.71	$491.71	$491.71	$491.71	
Sub Total - Revegation	$2,459	$1,229	$0	$0	$0	$0	$3,688
Sub Total - Process Plant and Office Bldg.	$13,317	$6,659	$0	$0	$0	$0	$19,976
II Ponds							
A. Topsoil Handling & Grading							
Affected Area (Acres)	20.0	12.0	0.0	0.0	0.0	0.0	
Average Affected Thickness (Ins)	12	12	0	0	0	0	
Topsoil Volume (Yds^3)	32267	19360	0	0	0	0	
Unit Cost - Haul/Place ($/$Yd^3$)	$1.00	$1.00	$1.00	$1.00	$1.00	$1.00	
Topsoil Handling Cost ($)	$32,267	$19,360	$0	$0	$0	$0	
Unit Cost - Grading ($/Ac)	$38.45	$38.45	$38.45	$38.45	$38.45	$38.45	
Grading Cost ($)	$769	$461	$0	$0	$0	$0	
Sub Total - Topsoil	$33,036	$19,821	$0	$0	$0	$0	$52,857
B. Radiation Survey & Soil Analysis							
Unit Cost ($/Ac)	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	
Sub Total - Survey & Analysis	$10,400	$6,240	$0	$0	$0	$0	$16,640
C. Revegation							
Fertilizer ($/Ac)	$46.49	$46.49	$46.49	$46.49	$46.49	$46.49	
Seeding Prep & Seeding ($/Ac)	$168.68	$168.68	$168.68	$168.68	$168.68	$168.68	
Mulching & Crimping ($/Ac)	$276.54	$276.54	$276.54	$276.54	$276.54	$276.54	
Sub Total Cost/Acre	$491.71	$491.71	$491.71	$491.71	$491.71	$491.71	
Sub Total - Revegation	$9,834	$5,901	$0	$0	$0	$0	$15,735
Sub Total - Ponds	$53,270	$31,962	$0	$0	$0	$0	$85,232

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TOPSOIL REPLACEMENT & REVEGETATION	Irigaray Mine Unit(s) #1 Thru #9	Christensen Mine Units #2 Thru #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Total Christensen & Irigaray
III Wellfields							
A. Topsoil Handling & Grading							
Affected Area (Acres)	40.0	55.0	30.0	50.0	35.0	40.0	
Average Affected Thickness (Ins)	3.5	0.0	0.0	0.0	0.0	0.0	
Topsoil Volume (Yds^3)	18822	0	0	0	0	0	
Unit Cost - Haul/Place ($/Yd^3$)	$1.00	$1.00	$1.00	$1.00	$1.00	$1.00	
Topsoil Handling Cost ($)	$18,822	$0	$0	$0	$0	$0	
Unit Cost - Grading ($/Ac)	$38.45	$38.45	$38.45	$38.45	$38.45	$0.00	
Grading Cost ($)	$1,538	$2,115	$1,154	$1,923	$1,346	$0	
Sub Total - Topsoil	$20,360	$2,115	$1,154	$1,923	$1,346	$0	$26,897
B. Radiation Survey & Soil Analysis							
Unit Cost ($/Ac)	$520.00	$520.00	$520.00	$520.00	$0.00	$0.00	
Sub Total - Survey & Analysis	$20,800	$28,600	$15,600	$26,000	$0	$0	$91,000
C: Spill Cleanup							
Affected Area (Acres)	0.054	0.036	0	0	0	0	
Affected Area (ft^2)	2,352	1,568	0	0	0	0	
Average Affected Thickness (ft)	0.25	0.25	0	0	0	0	
Affected Volume (ft^3)	588	392	0	0	0	0	
Quantity per Truckload (ft^3)	540	540	540	540	540	540	
Quantity to be Shipped (Loads)	1.1	0.7	0.0	0.0	0.0	0.0	
Distance (Miles)	150	150	150	150	150	150	
Cost per Mile ($)	$2.58	$2.58	$2.58	$2.58	$2.58	$2.58	
Transportation Cost ($)	$421	$281	$0	$0	$0	$0	
Handling Cost ($240/load)	$261	$174	$0	$0	$0	$0	
Disposal Fee per Cubic Foot ($)	$3.70	$3.70	$3.70	$3.70	$3.70	$3.70	
Disposal Cost ($)	$2,176	$1,450	$0	$0	$0	$0	
Sub Total - Spill Cleanup	$2,597	$1,731	$0	$0	$0	$0	$4,328
D. Revegation							
Fertilizer ($/Ac)	$46.49	$46.49	$46.49	$46.49	$46.49	$46.49	
Seeding Prep & Seeding ($/Ac)	$168.68	$168.68	$168.68	$168.68	$168.68	$168.68	
Mulching & Crimping ($/Ac)	$276.54	$276.54	$276.54	$276.54	$276.54	$276.54	
Sub Total Cost/Acre	$491.71	$491.71	$491.71	$491.71	$491.71	$491.71	
Sub Total - Revegation	$19,668	$27,044	$14,751	$24,586	$17,210	$19,668	$122,928
Sub Total - Wellfields ($)	$63,426	$59,490	$31,505	$52,508	$18,556	$19,668	$245,153
IV Roads							
A. Topsoil Handling & Grading							
Affected Area (Acres)	25.0	20.0	15.0	21.0	0.0	0.0	
Average Affected Thickness (Ins)	12	12	12	12	12	12	
Topsoil Volume (Yds^3)	40333	32267	24200	33880	0	0	
Unit Cost - Haul/Place ($/Yd^3$)	$1.00	$1.00	$1.00	$1.00	$1.00	$1.00	
Topsoil Handling Cost ($)	$40,333	$32,267	$24,200	$33,880	$0	$0	
Unit Cost - Grading ($/Ac)	$38.45	$38.45	$38.45	$38.45	$38.45	$38.45	
Grading Cost ($)	$961	$769	$577	$807	$0	$0	
Sub Total - Topsoil	$41,295	$33,036	$24,777	$34,687	$0	$0	$133,794
B. Radiation Survey & Soil Analysis							
Unit Cost ($/Ac)	$520.00	$520.00	$520.00	$520.00	$0.00	$0.00	
Sub Total - Survey & Analysis	$13,000	$10,400	$7,800	$10,920	$0	$0	$42,120
C. Revegation							
Fertilizer ($/Ac)	$46.49	$46.49	$46.49	$46.49			
Seeding Prep & Seeding ($/Ac)	$168.68	$168.68	$168.68	$168.68			
Mulching & Crimping ($/Ac)	$276.54	$276.54	$276.54	$276.54			
Sub Total Cost/Acre	$491.71	$491.71	$491.71	$491.71			
Sub Total - Revegation	$12,293	$9,834	$7,376	$10,326	$0	$0	$39,829
Sub Total - Roads ($)	$66,587	$53,270	$39,952	$55,933	$0	$0	$215,743

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TOPSOIL REPLACEMENT & REVEGETATION	Irigaray Mine Unit(s) #1 Thru #9	Christensen Mine Units #2 Thru #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Total Christensen & Irigaray
V Other							
A. Topsoil Handling & Grading							
Affected Area (Acres)	41.0	19.0	5.0	5.0	0.0	0.0	
Average Affected Thickness (Ins)	0.0	0.0	0	0	0	0	
Topsoil Volume (Yds^3)	0	0	0	0	0	0	
Unit Cost - Haul/Place ($/$Yd^3$)	$1.00	$1.00	$1.00	$1.00	$1.00	$1.00	
Topsoil Handling Cost ($)	$0	$0	$0	$0	$0	$0	
Unit Cost - Grading ($/Ac)	$38.45	$38.45	$38.45	$38.45	$38.45	$0.00	
Grading Cost ($)	$1,576	$731	$192	$192	$0	$0	
Sub Total - Topsoil	$1,576	$731	$192	$192	$0	$0	$2,692
B. Radiation Survey & Soil Analysis							
Unit Cost ($/Ac)	$520.00	$520.00	$520.00	$520.00	$0.00	$0.00	
Sub Total - Survey & Analysis	$21,320	$9,880	$2,600	$2,600	$0	$0	$36,400
C. Revegation							
Fertilizer ($/Ac)	$46.49	$46.49	$46.49	$46.49	$0.00	$0.00	
Seeding Prep & Seeding ($/Ac)	$168.68	$168.68	$168.68	$168.68	$0.00	$0.00	
Mulching & Crimping ($/Ac)	$276.54	$276.54	$276.54	$276.54	$0.00	$0.00	
Sub Total Cost/Acre	$491.71	$491.71	$491.71	$491.71	$0.00	$0.00	
Sub Total - Revegation	$20,160	$9,342	$2,459	$2,459	$0	$0	$34,420
Sub Total - Other	$43,057	$19,953	$5,251	$5,251	$0	$0	$73,511
VI Remedial Action							
A. Topsoil Handling & Grading							
Affected Area (Acres)	65.5	54.3	25.0	38.0	17.5	20.0	
Average Affected Thickness (Ins)	0.0	0.0	0.0	0.0	0.0	0.0	
Topsoil Volume (Yds^3)	0	0	0	0	0	0	
Unit Cost - Haul/Place ($/$Yd^3$)	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	
Topsoil Handling Cost ($)	$0	$0	$0	$0	$0	$0	
Unit Cost - Grading ($/Ac)	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	
Grading Cost ($)	$0	$0	$0	$0	$0	$0	
Sub Total - Topsoil	$0	$0	$0	$0	$0	$0	$0
B. Radiation Survey & Soil Analysis							
Unit Cost ($/Ac)	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	
Sub Total - Survey & Analysis	$0	$0	$0	$0	$0	$0	$0
C. Revegation							
Fertilizer ($/Ac)	$46.49	$46.49	$46.49	$46.49	$46.49	$46.49	
Seeding Prep & Seeding ($/Ac)	$168.68	$168.68	$168.68	$168.68	$0.00	$0.00	
Mulching & Crimping ($/Ac)	$276.54	$276.54	$276.54	$276.54	$0.00	$0.00	
Sub Total Cost/Acre	$491.71	$491.71	$491.71	$491.71	$46.49	$46.49	
Sub Total - Revegation	$32,207	$26,675	$12,293	$18,685	$814	$930	$91,603
Sub Total - Remedial Action	$32,207	$26,675	$12,293	$18,685	$814	$930	$91,603
TOTAL COST - TOPSOIL & REVEGETATION	$271,864	$198,009	$89,001	$132,377	$19,369	$20,598	$731,218

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	MISCELLANEOUS RECLAMATION	Irigaray Mine Unit(s) #1 Thru #9	Christensen Mine Units #2 Thru #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Total Christensen & Irigaray
I	Fence Removal & Disposal							
	Quantity (Feet)	15240	35260	20000	9000	0	0	
	Cost of Removal/Disposal ($/Ft)	$0.68	$0.68	$0.68	$0.68	$0.68	$0.68	
	Cost of Removal/Disposal ($)	$10,363	$23,977	$13,600	$6,120	$0	$0	$54,060
II	Powerline Removal & Disposal							
	Quantity (Feet)	9450	10565	18000	18000	0	0	
	Cost of Removal/Disposal ($/Ft)	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	
	Cost of Removal/Disposal ($)	$0	$0	$0	$0	$0	$0	$0
III	Powerpole Removal & Disposal							
	Quantity	25	30	60	60	0	0	
	Cost of Removal/Disposal ($/Each)	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	
	Cost of Removal/Disposal ($)	$0	$0	$0	$0	$0	$0	$0
IV	Transformer Removal & Disposal							
	Quantity	3	1	0	18	0	0	
	Cost of Removal/Disposal ($/Each)	$2,525	$2,525	$2,525	$619	$619	$619	
	Cost of Removal/Disposal ($)	$7,575	$2,525	$0	$11,142	$0	$0	$21,242
V	Booster Pump Assembly Removal & Disposal							
	Quantity	0	6	5	5	0	0	
	Cost of Removal/Disposal ($/Each)	$248	$248	$248	$248	$248	$248	
	Cost of Removal/Disposal ($)	$0	$1,488	$1,240	$1,240	$0	$0	$3,968
VI	Culvert Removal & Disposal							
	Quantity (Feet)	150	1200	1000	1000	0	0	
	Cost of Removal/Disposal ($/Ft)	$3.48	$3.48	$3.48	$3.48	$3.48	$3.48	
	Cost of Removal/Disposal ($)	$522	$4,176	$3,480	$3,480	$0	$0	$11,658
VII	Guardrail Removal							
	Quantity (Feet)	200	3000	0	0	0	0	
	Cost of Removal/Disposal ($/Ft)	$6.44	$6.44	$6.44	$6.44	$6.44	$6.44	
	Cost of Removal/Disposal ($)	$1,288	$19,320	$0	$0	$0	$0	$20,608
VIII	Low Water Stream Crossing							
	Quantity	0	1	1	0	0	0	
	Cost of Removal/Disposal ($/Each)	$4,500	$4,500	$4,500	$4,500	$4,500	$4,500	
	Cost of Removal/Disposal ($)	$0	$4,500	$4,500	$0	$0	$0	$9,000
IX	Utilities Cost							
	Quantity (Mos)	4	8	4	4	0	0	
	Cost Per Month ($/Month)	$65	$65	$65	$65	$65	$65	
	Total Cost ($)	$260	$520	$260	$260	$0	$0	$1,300
	TOTAL MISCELLANEOUS COST	$20,008	$56,506	$23,080	$22,242	$0	$0	$121,836