



Lu0109

October 4, 2005

**License SUA-1341
Docket No. 40-8502**

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

RE: Submittal of Annual Surety Update

Dear Mr. Janosko:

Condition No. 9.5 of COGEMA Mining, Inc.'s license requires that the reclamation surety estimate be updated on an annual basis and submitted to the NRC by August 18 of each year. Due to internal constraints, COGEMA was not able to complete this estimate by your required date. Your approval of an extension in time for submittal of this estimate is truly appreciated.

Accordingly, please find enclosed COGEMA Mining, Inc.'s updated surety bond calculation for the 2005-2006 annual period.

Few changes were made to the 2004 surety estimate provided to NRC in August 2004 and December 2004 to prepare this 2005-2006 surety estimate. The changes made include a 5.9% inflation rate from August 2003 (base surety costs) through July 2005, the addition of an updated reclamation schedule (Figure 1), and a proposed 3.5% decrease in the miscellaneous costs associated with third party contractors. Based on the result of these changes, this year's surety estimate is \$10,352,659 compared to last year's estimate of \$10,369,238, a decrease of \$16,579. The specific changes are outlined in the attached bond assumptions.

Your review and approval of the 2005-2006 bond estimate is requested. Please contact me at (307) 234-5019 if you should have any questions.

Sincerely,

Donna L. Wichers
General Manager

cc: NRC – Stephen Cohen, Project Manager
NRC – Region IV
COGEMA - Larry Arbogast

**Reclamation Bond Assumptions
Irigaray and Christensen Ranch ISL Projects
WDEQ Permit to Mine No. 478
NRC License SUA-1341
2005-2006 Annual Report**

This year's bond estimate is based upon the 2003 base-bond estimate where very detailed explanations were provided for the updated costs. Some minor changes were made in 2004 and an inflation factor of 2.6% was added to convert 2003\$ to 2004\$. For the 2005-2006 estimate, the inflation factor has increased to 5.9% to adjust from August 2003 to July 2005. This inflation rate equates to the difference between the Consumer Price Index (all urban customers) for August 2003 of 184.6 and the July 2005 value of 195.4.

Costs in the bond estimate are thoroughly detailed and were developed by using either 1) COGEMA's actual costs, 2) a published reference source, or 3) quotes from local third-party contractors. The method by which unit rates and costs were derived is provided in the explanation for each worksheet, below.

Table 1 – Summary of Reclamation/Restoration Bond Estimate

Table 1 is a summary of costs from individual bond worksheets. Added to the grand total of estimated spending are "miscellaneous" costs associated with the hiring of a third part contractor to actually perform the work. The specific miscellaneous costs are a requirement of the Wyoming Department of Environmental Quality (WDEQ), as outlined in the WDEQ Land Quality Division's Guideline No. 12, "Standardized Reclamation Performance Bond Format and Cost Calculation Methods", page 11. The U.S. Nuclear Regulatory Commission (NRC) also requires similar miscellaneous costs in NUREG-1569 and further mandates that a standard contingency, in this case 15%, be added to the overall bond cost.

The current miscellaneous costs and contingency on Table 1 for both the WDEQ and NRC adds up to 23.5%. COGEMA is proposing that this percentage be reduced to a total of 20% in this surety estimate. Table 1 is the only table that is affected by this proposed decrease. The decrease is proposed because a review of the miscellaneous costs associated with third party contractors seemed to be excessive considering the status of the reclamation project, i.e. all groundwater restoration has been completed and only the decommissioning of structures remains. An explanation of the various miscellaneous costs, proposed revisions to these costs, and contingency for Table 1 are as follows.

Project Design

This is the cost for an independent firm to design the final reclamation project. This includes all design and engineering work through production of construction documents. WDEQ reference sources place this category at 2 to 6.5% of the total bond cost.

The reclamation program has been in full progress for the past 5 years. Groundwater restoration has been completed for all wellfields at both Irigaray and Christensen Ranch. Surface decommissioning has commenced at Irigaray and is expected to be completed for both projects by mid-2007 (see attached schedule, Figure 1). The program is far enough along that a third party contractor would not be required to prepare an entire final reclamation project, and would most likely use the plan developed by COGEMA. NRC has required COGEMA to prepare a detailed Decommissioning Plan that will be used by any contractor to conduct the work. For these reasons, the project design cost has been eliminated from the NRC estimate and only 0.5% has been provided for the

WDEQ estimate. This would still provide \$42,868 the WDEQ for a third party engineering review of the NRC Decommissioning Plan.

Contractor Profit & Mobilization

This category covers contractor costs typically not found in the basic unit rates. This percentage specifically covers contractor profit, overhead costs, mobilization costs to the site and demobilization costs after job completion. According to WDEQ, assorted references place this cost from 8% to 15% of the total bond cost. COGEMA has been approved to use 8% by DEQ for this category.

For NRC purposes, this category is currently 4%. In NUREG-1569, NRC requires overhead costs for labor, equipment and contractor profit. Hourly rates are already included in this estimate for labor and equipment, and these are third party estimates that already include overhead. Therefore we are recommending a 1% reduction to 3% to cover contractor profit and mobilization/demobilization. As the ISL reclamation is not an equipment intensive type of reclamation, mobilization/demobilization costs should be minimal.

Pre-construction Investigation

This item addresses all fieldwork necessary to document and mitigate dangerous and/or quickly deteriorating conditions. Any assessment under this item will be based on the WDEQ's knowledge of specific site conditions and length of time between bond forfeiture (reason for a third party contractor) and initiation of the final reclamation project. WDEQ uses 1%, and has reference sources placing this cost between 1% and 2%. COGEMA has been asked by WDEQ to incorporate the 1% into our bond estimate.

No cost is included for NRC in this WDEQ required category. NRC required COGEMA to conduct a detailed site-decommissioning plan, and a part of this plan was a site characterization. No areas of potential hazardous conditions were identified. We believe that this study qualifies as a pre-construction investigation.

Project Management

This category includes the costs for an independent firm to manage the final reclamation project. It includes complete oversight of all demolition, construction and reclamation activities. Examples would include supervision of groundwater restoration, wellfield piping and structures removal, plant buildings and equipment demolition, soil sampling, byproduct waste shipments, etc. References place this cost at 3% to 4%. WDEQ typically uses 3%. However, WDEQ has in the past required a 4% project management cost for COGEMA due to the more technical aspects of groundwater restoration. Because active groundwater restoration processes have been completed at both Irigaray and Christensen Ranch, it is requested that WDEQ only require the 3%.

NRC's project management in NUREG-1569 includes costs associated with project management; engineering design, review and change; mobilization; power during reclamation; quality control; radiological safety; and any other costs not included in other estimation categories. Contractor mobilization is included as separate miscellaneous cost items, above, and the project design is completed. Furthermore, COGEMA already includes line items in the bond for the utilities during reclamation and radiological safety (gamma surveys and soil analysis, byproduct load surveys). The 2% for NRC project management includes 1% for a project RSO or equivalent (\$85,736), and another 1% for general project management (\$85,736), for the remaining project life (1.5 years).

On-site Monitoring

This category covers the costs for any miscellaneous monitoring felt necessary by the WDEQ after the final reclamation is completed. Costs of this item typically vary, depending upon the volume of monitoring already included in the bond or the type of reclamation activity required. The WDEQ typically uses 0.5%, and this is what COGEMA is bonded for.

NRC license termination will occur at the end of the project, therefore no costs will be necessary after final reclamation is completed. WDEQ requires the 0.5% to cover any miscellaneous monitoring they may incur during the 5-year reclamation/revegetation evaluation period prior to bond release.

Site Security & Liability Assurance

This category covers the cost for the WDEQ, or third party contractor, to provide any necessary site security measures during the reclamation program, and to purchase liability insurance to cover the timeframe of the reclamation program and full bonding period. WDEQ references place this cost at about 1% of the total bond amount. The WDEQ typically uses 1%, and this is what COGEMA is bonded for.

Because NRC does not have the same 5-year bonding period after reclamation is completed; no additional cost is provided in this category.

Longterm Administration

This category applies to the period between completion of the reclamation project and final bond release which is a minimum 5 year period for uranium mines. During this time the WDEQ will incur administrative costs prior to the final bond release. WDEQ typically uses 1% to 2% for this category depending upon the scale or complexity of the reclamation and post-reclamation monitoring. WDEQ has required COGEMA to use 2%.

Again, because NRC will terminate the license after reclamation completion, there is no final bond release period of 5 years. There is no need for a percentage in this category.

Contingency

Contingency is included in the bond estimate to cover unknown conditions that could occur during the reclamation project. The WDEQ references place this cost at 2% to 5% of the total bond cost. WDEQ has required COGEMA to post 4% for the contingency. NRC requires a contingency of 15% regardless of the detail of the bond estimate, so COGEMA has incorporated the 15%.

WDEQ Reference Sources: The reference sources used by WDEQ to establish the ranges of percentages used in the miscellaneous items are:

- Means Heavy Construction Cost Data (current edition), R.S. Means Company, Inc., Kingston MA
- Means Site Work Cost Data (current edition), R.S. Means Company, Inc.
- Building Construction Cost Data (current edition), R.S. Means Company, Inc.
- Handbook for Calculation of Reclamation Bond Costs, 1987, Department of Interior, Office of Surface Mining Reclamation and Enforcement, Washington, D.C.
- Wyoming DEQ Abandoned Mine Land Program contracting and reclamation practices and cumulative experience.

Worksheet 1 – Groundwater Restoration

Worksheet 1 provides the cost estimate to complete the groundwater restoration work at both the Irigaray and Christensen sites. Most of the input data and calculations are self-explanatory. Explanations for the various unit rates or factors used in the calculations are described below. No changes to Worksheet 1 have been made for the 2005 surety estimate.

Technical Assumptions:

All of the input data provided in the technical assumptions are actual site specific information. These data are used throughout the bond estimate as needed. No changes have been made for 2005.

Restoration Operating Assumptions:

Flowrates, pore volumes required, RO efficiencies and disposal well information are taken from the restoration plan. The remainder of the operating assumptions are calculated using the conversion factors listed and the technical assumptions. A new line has been added this year to account for the number of baseline wells in each mine unit. No changes have been made for 2005.

Restoration Cost Assumptions:

(Note: no changes in the 2003 bond assumptions for costs or technical plans have been made to the restoration cost section of the 2005 bond estimate).

Power costs are based on actual (average) installed horsepower and actual costs for electricity at each of the sites. A factor of 1.0 has been requested by WDEQ for use as the Kwh/Hp ratio to account for motor efficiencies. This factor is used for the Irigaray operations, because we do not have current data on pumping costs. COGEMA's actual ratio of Kwh/Hp is 0.83 Kwh/Hp for Christensen Ranch, where restoration operations continue. This includes all operating submersible pumps, reverse osmosis feed pumps, the plant injection pumps, the two disposal well pumps, and miscellaneous electricity used in the restoration plant (lights, etc.). The factor of 0.83 Kwh/Hp is based on actual data from Christensen operations during years 2002 and 2003 (see Attachment 1), and has been incorporated into the bond estimate. Using this number, a unit rate for power (\$/Kgal) is calculated.

Chemical costs are based on year 2003 spending as is included in the last bond submittal at the Christensen site. These costs have been applied to Irigaray, where appropriate. Repair and maintenance is also a unit rate based on actual spending for this category. These costs are outlined below:

Groundwater Sweep and Reverse Osmosis Phases – Other Operating Assumptions:

- BaCl (barium chloride) – would not be used in the future; instead would use radium resin currently on site.
- Anti-scalent (is used at Christensen only for surface discharge during GWS):
 - Purchase of 250 gallon tote = \$2,958
 - = \$11.832/gallon
 - Addition target rate of 8 ppm
 - $$\frac{8 \text{ gallons}}{1,000 \text{ Kgal H}_2\text{O}} \times \$11.832 \text{ /gallon} = \$0.0947/\text{Kgal}$$

- Elution cost is based on actual spending of \$2,850 per average elution (includes labor and chemicals). $\$2,850 \text{ divided by } 28,800 \text{ Kgal/elution} = \$0.099/\text{Kgal}$.
- Sulfuric Acid, Hydrochloric acid, and sodium sulfide are no longer used in the restoration process. Updated membranes for the RO units no longer need low pH feedwater, thus eliminating the need for acid addition prior to reverse osmosis. Hydrogen sulfide gas is now used instead of sodium sulfide.
- A unit rate of \$0.863/Kgal is used for hydrogen sulfide gas. This is based on actual spending at Christensen Mine Units 2 and 4 from October 2002 through July 2003. The cost includes purchase of the chemical (\$0.41/lb), an addition rate of 100 ppm, a flow rate of 100 gpm, one pore volume of use, plus a \$75/day trailer rental fee. This cost has been added as a separate line item below the Reverse Osmosis wellfield section, as only 1 PV of hydrogen sulfide per mine unit is assumed.
- The unit rate of \$0.0181/Kgal for caustic soda (reverse osmosis phase) is based on actual spending from August 2002 through July 2003.
- Restoration Plant repair and maintenance (GWS and RO) is based on actual spending from August 2002 through July 2003. These costs include purchase of piping, fittings, pump maintenance, filters and miscellaneous supplies.

| | |
|------------------|----------------------------|
| Supplies | = \$0.0358 per Kgal |
| Outside Services | <u>= \$0.0021 per Kgal</u> |
| | = \$0.0379 per Kgal |
- Restoration wellfield repair and maintenance (GWS and RO) is based on actual spending from August 2002 through July 2003. Costs include purchase of submersible pumps, piping, fittings, filters and miscellaneous supplies.

| | |
|------------------|----------------------------|
| Supplies | = \$0.1185 per Kgal |
| Outside Services | <u>= \$0.1709 per Kgal</u> |
| | = \$0.2894 per Kgal |
- Sampling and Analysis for Groundwater Sweep is based on taking a round of samples from each baseline well after the final GWS pore volume and analyzing the samples for a full suite Guideline 8 (26 parameters). This amount is then converted to a cost per Kgal for the pore volume:

Irigaray Units 6-9: $\frac{(27 \text{ baselines} \times \$150^* = \$4,050)}{1 \text{ PV GWS} = 39,525 \text{ Kgal}} = \$0.1025/\text{Kgal}$

Christensen Unit 2: $\frac{(24 \text{ baselines} \times \$150^* = \$3,600)}{1 \text{ PV GWS} = 27,414 \text{ Kgal}} = \$0.131/\text{Kgal}$

*\$150/Guideline 8 analysis is actual 2004 cost from Intermountain Laboratories, Sheridan, Wyoming.
- Sampling and Analysis for the Reverse Osmosis phase is based on one round of Guideline 8 analyses for each baseline well at the end of RO; plus a recovery composite analyzed for Guideline 8 in each mine unit (or area for Irigaray) for each PV; and miscellaneous samples during the process. For Christensen miscellaneous, assume 10 wells in each wellfield module of each mine unit are analyzed for 4 parameters, each PV. The cost of analysis is \$10 each parameter, or \$40. Christensen Unit 2 has 4 modules, Unit 3: 5 modules, Unit 4: 3 modules, Unit 5: 5 modules; and Unit 6: 6 modules. For Irigaray, assume 15 wells per Units 1-5, and 15

wells for Units 6-9, each PV, for the 4 parameters. These costs are divided by the total Kgal in 5 PV of RO treatment:

Irigaray Units 6-9: 27 baselines X \$150 = \$4,050

Rec. Comp.: 5 PV X 1 wellfield area (Units 6-9) X \$150 = \$750

Misc.: 5 PV X 15 wells X (4 analytes, \$10 each) = \$3,000

Total = \$7,800/(197,624 Kgal/5 PV) = \$0.0395/Kgal

Christensen Unit 2: 24 baselines X \$150 = \$3,600

Rec. Comp.: 5 PV X 1 mine unit X \$150 = \$750

Misc.: 5 PV X (10 wells/module*4 modules)*(4 analytes*\$10 each) = \$8,000

Total = \$12,350/(137,085 Kgal/5 PV) = \$0.091/Kgal

- Utility costs listed are for electricity, heating and telephone for the offices during the restoration operations. The cost per month has been revised since last year. It was previously assumed that the main offices would continue operating if the work were contracted. In reality, to save costs during contracting, one of the on-site trailers would be used to office project management personnel during this time period. Powder River Energy Corp. (July 2003) has provided an average cost of \$65/month for a typical full electric house trailer (heating and lights), thus eliminating the need for propane. As power costs have not changed in 2005, this cost is still used in the bond. Current telephone costs at Irigaray and Christensen combined are approximately \$500/month (average 2003 actual spending to-date). Thus the new monthly unit rate of \$565 is more appropriate than the \$1000/month estimate in the previous bond estimate.

Waste Disposal Well Cost Assumptions:

No changes from the 2003 bond assumptions for unit costs or technical plans have been made to the wastewater management section of the 2005 bond estimate.

Operating assumptions for the waste disposal well are based on the restoration plan and historical experience (such as the brine concentration factor). Cost assumptions follow the same rationale as for restoration costs (unit rates are based on actual average 2002-2003 site spending for the power, chemicals, repair and maintenance).

- Electrical power costs are based on the average Kwh/Hp factor of 0.83, which is the actual ratio for Christensen (includes all site pumps).
- RO Antiscalent cost (RO processed feed water for disposal well):

| | |
|-----------------------------------------|-------------------|
| Purchase of 250 gallon tote (delivered) | = \$4,758 |
| (Chemico Int'l RO 9) | = \$19.032/gallon |
| Addition target rate of 10 ppm | |
| <u>10 gallons</u> X <u>\$19.032</u> | = \$0.1903/Kgal |
| 1,000 Kgal H2O | gallon |
- Disposal Well Antiscalent cost:

| | |
|-------------------------------------|-------------------|
| 440 gallons delivered | = \$5,220.60 |
| (Champion Tech Gyptron t-67) | = \$11.865/gallon |
| Addition target rate of 20 ppm | |
| <u>20 gallons</u> X <u>\$11.865</u> | = \$0.2373/Kgal |
| 1,000 Kgal H2O | gallon |
- Sulfuric Acid (used prior to RO to avoid precipitation). Actual spending in 2003 was \$22,243, divided by 41,662 Kgal = \$0.5339/Kgal.
- Corrosion inhibitor: no longer required.
- Algaecide: 2003 purchases = \$4,634; 2003 Kgal = 41,662; = \$0.111/Kgal

- Repair and maintenance is based on actual spending from August 2002 through July 2003 for bag filters, pump parts, oil and lube, fittings. The unit rate for this is equal to \$0.0116/Kgal as RO feed. Converted to Kgal of disposal well injection is:

$$\frac{\$0.0116}{\text{Kgal RO feed}} \times \frac{1000 \text{ Kgal RO feed}}{150 \text{ Kgal disposal well feed}} = \$0.0773/\text{Kgal}$$

Stabilization Monitoring:

Three sample sets will be taken during the 9-month stabilization-monitoring period. The first set is taken three months after the beginning of stabilization monitoring. The next set is taken after six months and the last after 9 months. The sampling cost per set is based on rental of a 30 Kw, 480 volt, 3-phase portable generator for a one week period at a rate of \$280/week (Industrial Engine Service, Casper WY, quote of August 2003). As each well is pumped for an hour period, and the generator can service 4 wells at a time, then it is possible to sample a maximum of 32 wells per day during 8 hours (assuming a 10-hour workday). A one-week rental is more than sufficient to sample all baseline wells in a mine unit, so this number is very conservative. The analytical cost is a calculation based on sampling all baseline wells in each wellfield with an analysis cost of \$150/well for a DEQ Guideline 8 analysis for uranium mines (August 19, 2003 quote from Intermountain Laboratories). For this calculation, a new line has been added to the technical assumptions to show the number of baseline wells per area. Labor is included at the end of Worksheet 1. Utilities (electricity, telephone) are included for maintaining the office open during stabilization monitoring. These costs were previously described under the groundwater sweep explanations, above.

Labor:

Labor costs for 1.6 years of restoration operations are included as per the 2004 bond estimate. In the 2003 bond estimate, 2.6 years of labor were included. The reduction in labor by one year was based on the schedule of restoration which shows that active groundwater restoration has been finished at all Irigaray wellfields, and all Christensen wellfields except Mine Unit 6 which would be completed by the end of 2004. Labor rates are based on typical 2003 Manpower, Inc. costs for skilled labor. The operations crew consists of 1 supervisor, 4 operators, and 2 maintenance personnel. Operating costs for 2 vehicles are also included in this category. Unit rates for each worker category are shown in the table. A higher labor rate is used for groundwater restoration than is used in the remainder of the surface reclamation portion of the bond. This is because more skilled labor is required for operating the restoration equipment. Management labor is included in the Miscellaneous category under Project Management in Table 1.

Restoration Capital Requirements:

The only capital requirement listed is the plugging and abandonment of the two wastewater disposal wells. An actual cost estimate for the plugging and abandonment of the two Class I disposal wells at Christensen was obtained in December 2003 from Petrotek Engineers. The estimate was prepared using December 2003 quotes from Wyoming vendors. The new estimate 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 and has been incorporated into Worksheet 1. A copy of Petrotek's bid is attached.

Credit for Work Completed:

At the end of Worksheet 1 where items are totaled, lines have been inserted to show which groundwater restoration items have been completed and for which credit is requested. To date, the WDEQ has already approved the credit for groundwater sweep

in all wellfields. In the 2004 submittal, COGEMA asked the WDEQ to additionally approve credit for reverse osmosis and stabilization monitoring for the Irigaray wellfields. The final Irigaray restoration report was submitted to the WDEQ at the end of July 2004. Approval of the restoration is expected in October 2005.

Due to NRC's unwillingness to recognize the WDEQ's approval of the groundwater sweep credit, or to approve any restoration work completed until the final project report is approved, we are showing an NRC line which includes all costs for the groundwater restoration with no credit provided.

Worksheet 2 – Plant Equipment Removal and Disposal

This worksheet calculates the costs to decontaminate, dismantle and remove, transport and dispose of plant process equipment. Explanations for the various unit rates or factors used in the 2003 bond calculations are described below. No changes to Worksheet 2 have been made for this 2005 bond submittal.

Decontamination Cost

The decontamination unit rate used in 2002 was \$550/load. However, checking local rental rates for equipment, the 2003 price for labor and hydrochloric acid, the decontamination unit rate has been revised downwards to \$435/load.

Assumptions:

- 1 cubic foot = 6 square feet (surface)
- 2 laborers can powerwash or sandblast 10 square feet per minute, or 1.7 cubic feet per minute = 102 cubic feet/hour
- 1 load = 540 cubic feet

Labor:

- 2 laborers @ \$15/hour = \$30/hour
- 540 cubic feet/load divided by 102 cubic feet/hour = 5.29 hours/load
- 5.29 hours/load x \$30/hour = \$158.7, say \$160

Equipment Rental:

- 2 3500 psi pressure washers @ \$6/hour x 2 = \$12/hour* (\$60/day, 10 hr/day)
- 1 185 cfm air compressor @ \$12.5/hour* (\$125/day, 10 hr/day)
with sandblast pot, hood,
wand, hose = \$24.5/hour

*rates based on 08-15-03 quote from Contractor's Equipment, Casper, WY

- 5.29 hours x \$24.5/hour = \$129.61, say \$130

Materials:

- Sand: 75 cubic feet @ \$1/foot** = \$75
- 10% HCl, 440 gallons @ \$0.155/gal*** = \$68
\$143, say \$145

TOTAL = \$160 + \$130 + \$145 = \$435/load

**\$1/foot from 08-15-03 quote of \$19/ton for fine sand (100 lbs/ft³) from JTL, Casper

*** 10% HCl = 506 lbs/yd³, 202 gallons/yd³, \$124/ton = \$0.155/gal (Brenntag West, Inc. average 2003 prices)

Dismantling and Loading Cost

Using 2003 quotes, the unit rate for dismantling and loading is estimated at \$650/load:

| | | |
|-------------|------------|-------------------------|
| Labor Crew: | 1 foreman | @ \$20/hour |
| | 4 laborers | @ \$15/hour = \$60/hour |
| | 1 truck | @ \$10/hour |
| | 1 welder | @ \$35/hour |
| | | <u>\$125/hour</u> |

Estimate: 4 hours @ \$125/hour = \$500

Equipment Rental: 1 front-end loader with operator @ \$75/hour (CAT 988C, June 2003 quote from Rapid Construction)

Productivity: 1 load = 20 yd³, 10 yd³/hr

Estimate: 2 hours @ \$75/hour = \$150

TOTAL = \$650/load

Oversize Charges

The cost of \$326/per truckload for oversize charges was provided to COGEMA by our former trucking firm, Key Trucking (Kaycee, Wyoming). This was their estimate of what they would be paying for permits for any loads that were larger than 15' wide, 15' high and 75' long. No other details are available. Standard charges from the Wyoming Department of Transportation, Port of Entry, are \$15 plus \$0.03/foot/mile for the oversized item. We believe that the \$326/load is very conservative based on the standard charges quoted.

Transportation & Disposal

- In 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 charges \$65/hour and each round trip takes 10 hours. The round trip includes 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/load and is incorporated into this bond estimate.
- COGEMA also is using Brubaker Backhoe Services (BBS) to haul non-contaminated trash and debris to the Edgerton, Wyoming landfill. The 2004 charge for each load is \$160. This cost has also been incorporated into this 2004 bond estimate.
- Landfill costs of \$12.00/cubic yard are the actual rates charged by the Edgerton, Wyoming industrial landfill (July 2003 rate sheet).
- COGEMA Mining has a byproduct material disposal agreement with Pathfinder Mines Corporation's Shirley Basin tailings facility (expires December 31, 2006). The disposal fee per cubic foot for piping, process equipment, demolition waste is \$11/cubic foot.

Worksheet 3 – Plant Building(s) Demolition and Disposal

This spreadsheet provides the costs for demolition and disposal of all buildings at Irigaray and Christensen, including concrete decontamination, demolition and disposal. Also included in the spreadsheet are costs for the removal and disposal of contaminated soils under the process buildings, and at the NPDES surface discharge points (one each site). Transportation charges for byproduct (\$650/load) and non-contaminated trash (\$160/load) were incorporated for the 2004 estimate (see Worksheet 2). No changes to Worksheet 3 have been made in 2005.

Structural Character

- Western Water Consultants, Sheridan, Wyoming, provided factors for gutting, and estimated material weights for the Irigaray process buildings volumes. Volumes,

etc., for the Christensen buildings were estimated by COGEMA's in-house staff, using the Western Water Consultants work at Irigaray.

- The building demolition cost of \$0.165/cubic foot is taken directly from Appendix K of LQD's Guideline No. 12.
- The building demolition disposal cost of \$300/truckload (25 CY trailer) is from the July, 2003 rate sheet from the Edgerton, Wyoming industrial landfill.

Concrete Decontamination, Demolition & Disposal

- The decontamination costs of \$0.134/square foot is based on the decontamination estimate of \$435/load discussed above for Worksheet 2. One load = 540 cubic feet; assuming 1 cubic foot = 6 square feet (surface), then \$435/load divided by 3240 square feet per load = \$0.134 per square foot.
- The concrete demolition rate of \$3.05/square foot is taken directly from Appendix K of LQD's Guideline No. 12.
- The on-site disposal cost has been calculated as \$0.23/ft³, or \$6.25/yd³. This is based on the following:
 - 1 988C loader with operator @ \$75/hour (Rapid Construction quote, 2003)
 - 1 dump truck with operator @ \$50/hour (Rapid, 2003)
 - \$125/hour
 - Productivity: 2 loads/hr (10 yd³ load) = 20 yd³, or 540 ft³
 - TOTAL = \$125/540 = \$0.23/ft³
- The disposal fee of \$3.70/cubic foot is based on the byproduct waste disposal agreement with Pathfinder Mines Corporation's Shirley Basin site. This rate is based on the agreement fee of \$100/cubic yard for soils and concrete rubble. (\$100/27 cubic feet per cubic yard = \$3.70 per cubic foot).

Soil Removal & Disposal

The estimate of contaminated soils is simply a contingency for unknowns. All unit rates associated with this contingency have previously been justified, except that the unit rate for a front end loader (with operator) has been increased from \$50/hr to \$75/hr (Rapid Construction quote for a 988C loader, 2003).

Radiation Survey

The cost for radiation surveys is detailed below:

Soil sampling and analysis cost:

- \$82.50/soil sample for digestion, U and Ra-226 analysis (Energy Lab, Casper 09-25-03 quote)
- \$3.75/soil sample for labor (\$15/hr for one laborer, 4 samples collected per hour)
- Total = \$86.25/sample, and an average of 4 samples per acre = \$345/acre

Gamma characterization and verification survey

- \$175/acre (July 2003 quote from ERG, New Mexico) includes GPS survey, grid establishment, verification survey after excavation.

Grand Total = \$520/acre

Worksheet 4 – Pond Reclamation Costs

Worksheet 4 provides all costs for the decommissioning of evaporation ponds located at the Irigaray and Christensen site. No changes have been made to Worksheet 4 for the 2005 estimate.

Unit rates used for this work that have not been identified in detail for other worksheets are provided following:

Pond Sludge

Year 2003 sludge handling costs per load were \$238/load. Using 2003 rates, the sludge handling costs per load are given as \$240/load.:

- Front-end loader with operator @ \$75/hr (10 c.y./hr) for 2 hrs. = \$150 (Rapid, 2003)
- Labor crew (1 hour) =
 - 1 foreman @ \$20/hr
 - 4 laborers @ \$15/hr
 - 1 truck @ \$10/hr
 - = \$90/hr = \$90

TOTAL = \$240/load

Pond Liner

- Labor crew costs per hour for handling the pond liner are taken from the above estimate of \$90/hour.
- The \$11/ft³ for disposal is the current contract price for this type of material at Pathfinder's Shirley Basin tailings impoundment (agreement good through 2006)

Pond Backfill

- The unit rate for backfilling of \$1.00 per cubic yard is conservative. A third party contractor at Pathfinder's Shirley Basin facility is currently charging \$0.70 per cubic yard for backfilling/excavation work and \$0.54 per cubic yard for regrading (Rapid Construction, 2003).

Radiation Survey – See Worksheet 3

Leak Detection System Removal

- This section assumes that contamination is found in the leak detection system wherever a leak has been detected in a pond during its operating life. This is why volumes are included for only Ponds C and D at Irigaray. The amounts from Pond 1 at the 517 site have been removed as this area has already been decontaminated and is ready for clean backfill. Handling costs for removal of these systems are included as \$240/load, or the same as the pond liner handling costs.

Transportation Costs – See Worksheet 2

Worksheet 5 – Well Abandonment

No changes have been made to Worksheet 5 for the 2005 bond estimate.

The method used for well abandonment in this bond calculation involves the placement of bentonite chips in the bottom 75 feet and upper 30 feet of each well, with the intermediate volume filled with gravel. A cement cone is placed two feet below the surface, then the surface casing is removed and the hole is backfilled with soil using a backhoe. The abandonment unit rate for 2003 has increased very slightly over last year's rate due to price changes, described as follows:

- Cost of bentonite chips - \$4.50/bag is a quote from Casper Well Products, Casper, Wyoming (August 2003).

- Cost of gravel/cubic yard – two quotes were obtained in August 2003 for sand & gravel to fill the wells for final abandonment. The first was from JTL Group (Casper, WY) for screened, washed pea gravel. The quote was \$16.00/ton, with a 1.5 tons/yard conversion, or \$24.00 per yard. The second quote was from '71 Construction (Casper, WY) for a sand-pea gravel mix, suitable for well abandonment. This cost came in at \$16 per ton with a 1.25 tons/yard conversion, or \$20 per yard. This cost has been used to replace last year's cost of \$17.53 per cubic yard.
- Cost of cement cones/markers - \$4.00 each from Casper Well Products, Wyoming (2003).
- An example of a typical well abandonment calculation for Irigaray is as follows:
Assume: well volume = 27.6 ft³; well depth = 250 ft; casing diameter = 4.5 inches
Materials per well:
 Bentonite chips from 250' to 175' (Christensen = 410' to 335')
 Sand/gravel from 175' to 30' (Christensen = 335' to 30')
 Bentonite chips from 30' to 2'
 Cement cone and backfill from 2' to surface
 Materials/well: 15 bags bentonite chips @ \$4.50/bag = \$67.50
 (65 lbs/ft³, 11.4 ft³/well, 50 lb. bags)
 0.58 c.y. gravel @ \$20/c.y. = \$11.60
 [Well T.D. – (105'-2') x 0.11($\frac{\pi r^2}{144 \text{ in}^2/\text{ft}^2}$)]
 Cement cone and marker @ \$4.00 each = \$ 4.00

 Labor: 1 hr./well
 1 – Foreman @ \$20.00/hour
 2 – Laborers @ \$15.00/hour
 1 – Vehicle @ \$10.00/hour
 \$60.00/hour
 \$60.00/hour x 1 hour/well = \$60.00

 Equipment Rental: 1 backhoe @ \$38.50/hour x 1 hour/well = \$38.50
 (Operator included – actual 2003 rental rate, Brubaker Backhoe Service)
 TOTAL cost per well = \$181.60

Worksheet 6 – Wellfield Equipment Removal & Disposal

This spreadsheet covers the removal & disposal of all wellfield piping, submersible pumps and tubing, trunklines running from the wellfields to the plant, and manholes along the trunklines. Unit rates not addressed previously are detailed below. No changes to Worksheet 6 have been made for the 2005 estimate.

Wellfield Piping Removal

The 2002 unit rate for wellfield piping removal was \$0.193/ft. This year costs have been updated, such as an increase in the backhoe and chainsaw rental charges, providing a new 2003 unit rate of \$0.202/ft of removal. An example of the calculation is provided as follows:

Open Trenches:

- 300'/well, 446 wells = 133,800 linear feet of pipe
- trenches: 300'/well x 2' deep x 2' wide = 1,200 ft³ = 44 c.y./well
- 44 c.y./well x 446 wells (Christensen Unit 6) = 19,624 c.y.

- 19,624 c.y. @ 50 c.y./hour = 392 hours
- Equipment rental: 2 backhoes @ \$38.5/hour x 196 hours each = \$15,092
(operators included – Brubaker Backhoe) (\$0.113/ft)

Remove Pipe, Chip and Load: (assume approximately 20,000 feet /day chipped)

- Labor: 1 – Foreman @ \$20.00/hr.
4 – Laborers @ \$15.00/hr.
1 – Vehicle @ \$10.00/hr.
\$90.00/hr. x 6 days = \$ 4,320
- Equipment Rental: 2 chainsaws @ \$5.00/hr x 3 days = \$ 30
(chainsaw rental = \$50/day, assume 10 hr day) = (\$0.0325/ft)
(08-15-03 Contractor Equipment rental quote)

Backfill Trenches:

- 19,624 c.y. @ 100 c.y./hr. = 196 hrs.
- Equipment rental: 2 backhoes @ \$38.50/hr. x 98 hrs each = \$ 7,546
(operators included – Brubaker Backhoe) (\$0.056/ft)
TOTAL= \$0.202/linear foot

Non-contaminated landfill charges of \$12/yd³ throughout Worksheet 6 is from the July 2003 rate sheet from the Edgerton landfill (quote for demolition trash).

Pump Removal

Submersible pumps are set in each production well for mining and restoration. Year 2003 pump removal cost was \$21.44. This year, the pulling unit cost has been increased to a unit rate of \$40/hr based on an August 2003 quote from Alger Construction, thus increasing the unit rate per pump/well to \$22.50. Using Christensen Mine Unit 6 as an example, the details are as follows:

Pull pumps and tubing – 4 wells/hour, 202 production wells

- Labor: 1 – Foreman @ \$20.00/hour
2 – Laborers @ \$15.00/hour
\$50.00/hour x 50.5 hours = \$ 2,525
 - Equipment Rental: 1 pulling unit @ \$40.00/hr. x 50.5 hours = \$ 2,020
\$ 4,545
- TOTAL = \$4,545 / 202 wells = \$22.50/ pump or well

Survey & Decontamination – see Worksheet 2

Tubing Volume Reduction and Loading

Using Christensen Mine Unit 6 as an example, the details of this cost are as follows:

Tubing: 300'/well average x 202 wells = 60,600 linear feet

- Chip and load: average O.D. (inches) = 3; chipped volume reduction (ft³/ft) = 0.016; chipped volume = 970 ft³; assume approximately 20,000 feet per day chipped.
- Labor: 1 – Foreman @ \$20.00/hour
2 Laborers @ \$15.00/hour
\$50.00/hour x 3 days (30 hours) = \$1,500
- Equipment: two shredders are owned by COGEMA
TOTAL = \$1,500 / 60,600 linear feet = \$0.025/linear foot

Surface Piping Removal

Surface piping exists at the Irigaray site. The cost for removing the Irigaray pipe is the same as the wellfield piping removal cost of \$0.202 above, but \$0.056/ft must be removed for the cost of backfilling. The \$0.113/ft. cost for opening trenches was kept,

because portions of the surface lines are partially covered with soil, and buried in some locations. So, the removal, chipping and loading costs for surface lines (only located at Irigaray) is \$0.146/ft.

Buried Trunkline Removal

Last year's unit rate for buried trunkline removal was \$2.80/ft. Using the buried 12" lines at Irigaray for an example, the updated unit cost for removal of buried trunklines is now estimated as \$3.12/ft. Increases in cost for backhoe rental and 10 hour days are incorporated. Year 2003 Equipment rates were provided by Rapid Construction, and actual rental rates from Brubaker Backhoe Service, and Contractor's Equipment.

Open Trenches:

- 7,300 linear feet of pipeline
- 2' deep x 4' wide = 29.6 c.y. soil per 100 feet of trench
- 29.6 c.y. x 7,300' / 100 = 2,163 c.y. soil to be removed
- Equipment Rental: 1 Trackhoe @ \$110.00/hour x 14.4 hours = \$ 1,586
(operator included, 150 c.y./hr rate) (\$0.22/ft)

Remove Pipe, Chip and Load: Assume 500' per day

- Labor: 1 – Foreman @ \$20.00/hr
4 – Laborers @ \$15.00/hr
1 – Vehicle @ \$10.00/hr
\$90.00/hr x 14.6 days (146 hrs) = \$13,140
(\$1.80/ft)
- Equipment Rental: 1 Chainsaw @ \$5.00/hr
1 Backhoe @ \$38.50/hr
\$43.50/hr x 14.6 days = \$ 6,351
(\$0.87/ft)

Backfill Trenches:

- Assume 50 c.y./hr x 2,163 hours = 43.3 hours
- Equipment rental: 1 backhoe @ \$38.50/hr x 43.3 hours = \$ 1,667
(\$0.23/ft)

TOTAL = \$22,744 / 7,300 linear feet = \$3.12/linear foot

Manhole Removal

Manholes are present along each of the buried trunklines to permit access to valves. Removal is essentially the crushing of the 12' by 8' culvert in place and backfilling. Removal cost of \$110 per manhole is based on the following:

- Labor: 1 – Foreman @ \$20.00/hr
2 – Laborers @ \$15.00/hr
1 – Vehicle @ \$10.00/hr
\$60.00/hr x 1.3 hour/manhole = \$ 78.00
- Equipment Rental: 1 Backhoe @ \$38.50/hr x 1 hour/manhole = \$ 38.50
\$116.50
say = \$117.00

In the 2002 bond estimate, it was assumed that the manhole culverts are contaminated. In reality, these culverts are not contaminated and will be demolished as stated, in place, or sold. Radiological surveys conducted in September 2003 confirmed that the culverts meet site release standards.

Transportation Costs – See Worksheet 2

Worksheet 7

Worksheet 7 provides to costs to replace topsoil in areas where topsoil was stripped and stockpiled, to conduct radiation surveys & soil analysis prior to topsoil placement, then the revegetation of the topsoil or ground surface without topsoil. Unit rates used in the calculations that have not been previously detailed are described below. No changes have been made to Worksheet 7 for the 2005 estimate.

Unit Cost – Grading

- A cost of \$1/yd³ is used to haul and place topsoil. This is conservative considering that Rapid Construction is hauling and placing topsoil at Pathfinder's Shirley Basin mine in July 2003 for a unit rate of \$0.80/yd³.
- \$38.45/acre – WDEQ Guideline 12 places the cost for final grading using a Caterpillar 16H Motor Grader at \$38.45 per acre (\$102.28/hr, 2.66 acres/hr).

Wellfield - Spills

- Wellfield spill areal estimates are based on documentation of on-site spills. The handling cost of \$240/load is taken from Worksheet 4 for handling of pond sludge.

Transportation of Byproduct Material – See Worksheet 2.

Revegetation

- \$491.71/acre – This cost has been used in past bond estimates and was taken from previous issues of the WDEQ Guideline 12. In the most recent edition of Guideline 12, operators are allowed to calculate their own revegetation costs, because the \$491.71/acre is very high. The last revegetation done at Christensen in year 2000 cost \$195/acre (seed plus drill costs). Mulching and crimping were not necessary, and will only be necessary on steep slopes. We have continued to use the \$491.71/acre as it is considered conservative.

Remedial Action

- An assumption is made that 50% of all surface areas that have been revegetated will require remedial action. The costs assume that these areas will be revegetated again at the same cost of \$491.71/acre.

Worksheet 8

Worksheet 8 provides all the remaining miscellaneous items that could be involved in the final reclamation. Unit rates are described below. No changes have been made to Worksheet 8 for the 2005 bond estimate.

Fence Removal & Disposal

The unit rate of \$0.68/ft is taken from Appendix H, WDEQ – LQD Guideline 12.

Powerline Removal & Disposal, Powerpole Removal & Disposal

Distribution lines and power poles are owned by Powder River Energy Corp. (PREC) and will be removed upon request at no charge. Transmission lines and power poles

which go from the main metering points to various electrical substations will also be removed by PREC at no cost for their salvage value.

Transformer Removal & Disposal

The costs for removal and disposal of transformers are based on a 1994 issue of WDEQ-LQD's Guideline No. 12, inflated by 23.8% to 2003 costs. The following unit rates are used:

- Large transformers: \$2,525
- Small transformers: \$619
- Booster pump assemblies: \$248
- Guardrail removal: \$6.44/ft

Booster Pump Assembly Removal & Disposal

Removal of the booster pump assemblies along the trunklines at Christensen is based on labor, and the assemblies will be non-contaminated. An internal estimate of \$200/assembly was used in 1994, and has been inflated by 23.8% to 2003 costs. The 2003 unit cost is \$248 per assembly.

Culvert Removal & Disposal

The cost of \$3.48/foot of culvert is taken from the 2001 edition of WDEQ-LQD Guideline 12, Appendix J.

Guardrail Removal

The costs for guardrail removal of \$6.44/ft is based on a 1994 issue of WDEQ-LQD's Guideline No. 12, inflated by 23.8% to 2003 costs.

Low Water Stream Crossing

In 1994, this cost was estimated as the same as the construction cost (\$7,000). A 2003 cost has been estimated as \$4,500 per crossing. The cost is based on 3 days of rental of a trackhoe and operator at \$100/hr (10 hour days), plus 3 days of rental of a haul/dump truck and operator at \$50/hr. The trackhoe will simply dig up the sand, rocks and Tri-lock block and the haul/dump truck will take the materials to the on-site landfill (pond excavations at Irigaray) for disposal. The hourly rates are a September 25, 2003 quote obtained from Alger Construction (Kaycee, WY) for the trackhoe with operator rental and actual rates paid to L&L Oilfield Services (Linch, WY) in August 2003 for the rental of a haul/dump truck with operator.

Utilities Cost

This cost has been revised to show the cost of utilities for use of one of the on-site office trailers instead of operating the power system for the offices. An average cost of \$65/month for a full electric house trailer was obtained from Powder River Energy Corp. (July 2003) and is used for this estimate.

**2005 SURETY ESTIMATE
WORKSHEETS**

COGEMA Mining, Inc.
SUMMARY OF RECLAMATION/RESTORATION BOND ESTIMATE, 2005 - 2006
WDEQ PERMIT NO. 478/USNRC LICENSE SUA-1341
TABLE 1

| | | | WDEQ Estimate August 2003\$ | NRC Estimate August 2003\$ |
|--------------------------------------------------------------------------------------------|----------------------------------------------------------------|-------|--------------------------------|-------------------------------|
| I GROUNDWATER RESTORATION - Worksheet 1: | | | \$3,124,253 | \$3,938,547 |
| II DECOMMISSIONING AND SURFACE RECLAMATION: | | | | |
| A. | Process Plant(s) Equipment Removal and Disposal Worksheet 2 | | \$212,081 | \$212,081 |
| B. | Plant Building(s) Demolition and Disposal Worksheet 3 | | \$734,007 | \$734,007 |
| C. | Process Pond Sludge and Liner Handling Worksheet 4 | | \$749,999 | \$749,999 |
| D. | Well Abandonment Worksheet 5 | | \$744,573 | \$744,573 |
| E. | Wellfield Equipment Removal and Disposal Worksheet 6 | | \$866,581 | \$866,581 |
| F. | Topsoil Replacement and Revegation Worksheet 7 | | \$732,131 | \$732,131 |
| G. | Miscellaneous Reclamation Activities Worksheet 8 | | \$121,836 | \$121,836 |
| Sub Total - Decommissioning and Surface Reclamation | | | \$4,161,208 | \$4,161,208 |
| TOTAL RESTORATION AND RECLAMATION | | | \$7,285,462 | \$8,099,755 |
| 5.9% Adjustment for inflation (CPI August 2003 of 184.6 through July 2005 CPI of 195.4) | | | \$426,235 | \$473,875 |
| SUBTOTAL | | | \$7,711,697 | \$8,573,630 |
| Miscellaneous Costs Associated with Third Party Contractors | | | | |
| | | WDEQ | NRC | |
| | Project Design | 0.5% | 0% | |
| | Contractor Profit & Mobilization | 8% | 3% | |
| | Pre-construction Investigation | 1% | | |
| | Project Management | 3% | 2% | |
| | On-site monitoring | 0.5% | | |
| | Site Security & Liability Assurance | 1% | 0.0% | |
| | Longterm Administration | 2% | | |
| | Subtotal miscellaneous additions to bond | 16.0% | 5.0% | \$1,233,871 \$428,681.51 |
| SUBTOTAL | | | \$8,945,568 | \$9,002,312 |
| | | WDEQ | NRC | |
| | Contingency | 4% | 15% | \$357,823 \$1,350,347 |
| GRAND TOTAL RESTORATION AND RECLAMATION | | | \$9,303,391 | \$10,352,659 |

COGEMA Mining, Inc.
2005 Restoration and Reclamation Costs
Wyoming Operations
WORKSHEET 1

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 (Ft²) | 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 (Ft²) | 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 (Ft³) | 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: | | | | | | | | | |
| 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 | | |
| S/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.
2005 Restoration and Reclamation Costs
Wyoming Operations
WORKSHEET 1

| | 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 |
|----------------------------------------|----------------------------------------|----------------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| GROUNDWATER RESTORATION | | | | | | | | | |
| 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 | | |
| Antiscalant (\$/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.
2005 Restoration and Reclamation Costs
Wyoming Operations
WORKSHEET 1

| | 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 |
|--------------------------------------------------------------------|----------------------------------------|----------------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| GROUNDWATER RESTORATION | | | | | | | | | |
| 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.
2005 Restoration and Reclamation Costs
Wyoming Operations
WORKSHEET 1

| | 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 |
|-----------------------------------------|----------------------------------------|----------------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| GROUNDWATER RESTORATION | | | | | | | | | |
| 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 Req'm'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 Antiscalant (\$/Kgals) | | | \$0.190 | \$0.190 | \$0.190 | \$0.190 | \$0.190 | | |
| WDW Antiscalant (\$/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.
2005 Restoration and Reclamation Costs
Wyoming Operations
WORKSHEET 1

| | | | | | | | | | |
|---------------------------------------------|----------------------------------------|----------------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| | 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 |
| GROUNDWATER RESTORATION | | | | | | | | | |
| 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) | 1.6 | | | | | | | | |
| TOTAL RESTORATION LABOR COST | \$562,432 | | | | | | | | |

| 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 | | | | | | | | | | \$562,432 |
| VI CAPITAL | | | | | | | | | | \$140,200 |
| TOTAL GROUNDWATER RESTORATION COST | | | | | | | | | | \$3,938,547 |
| Credit for Completion of Groundwater Sweep (WDEQ) | \$102,433 | \$48,862 | \$24,152 | \$19,622 | \$16,918 | \$60,012 | \$113,937 | \$0 | | \$385,937 |
| Credit for Completion of Reverse Osmosis (WDEQ) | \$106,512 | \$289,295 | | | | | | | | \$395,807 |
| Credit Completion of Stabilization Monitoring (WDEQ) | \$14,475 | \$18,075 | | | | | | | | \$32,550 |
| Credit Subtotal | \$223,419 | \$356,232 | \$24,152 | \$19,622 | \$16,918 | \$60,012 | \$113,937 | \$0 | \$0 | \$814,293 |
| GRAND TOTAL WDEQ | \$0 | \$0 | \$258,936 | \$215,651 | \$185,735 | \$660,910 | \$1,100,389 | \$0 | \$0 | \$3,124,253 |
| GRAND TOTAL NRC (no credit) | \$223,419 | \$356,232 | \$283,088 | \$235,273 | \$202,654 | \$720,923 | \$1,214,327 | \$0 | \$0 | \$3,938,547 |

| 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 (Yds³) | 40 | 200 | 180 | 110 | 40 | 40 | | 91 | 197 | 42 | 55 | |
| Quantity Per Truck Load (Yds³) | 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 (Yds³) | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | | 20.0 | 20.0 | 20.0 | 20.0 | |
| Quantity Per Truck Load (Ft³) | 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 |

| 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 (Ft³) | 179400 | 108720 | 430400 | 386400 | 126000 | 69640 | | 192000 | 95040 | 46720 | 72000 | 64800 | 11000 | |
| Cost of Demolition Per Ft³ | \$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 (Ft²) | 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 (Ft³) | 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 (\$/Ft²) | \$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 (\$/Ft²) | \$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 (Yds³) | 20 | 20 | 20 | 20 | 20 | 20 | | 20 | 20 | 20 | 20 | 20 | 20 | |
| Quantity Per Truck Load (Ft³) | 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 |

COGEMA Mining, Inc.
2005 Restoration and Reclamation Costs
Wyoming Operations
WORKSHEET 3

| 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 (Ft³) | | 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 (Ft³) | | 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 (Ft³) | | | | 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 (Ft³) | | 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 |

| POND RECLAMATION COST | Irigaray | | | | | | 517 | | | | Brine | Brine | Brine | Brine | Permeate | |
|----------------------------------------|----------|-----------|----------|-----------|----------|----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| | Pond A | Pond B | Pond C | Pond D | Pond E | Pond RA | Pond RB | Pond 1 | Pond 2A | Pond 2B | Pond 3 | Pond 1 | Pond 2 | Pond 3 | Pond 4 | Pond |
| POND SLUDGE: | | | | | | | | | | | | | | | | |
| Average Sludge Depth (Ft) | | 0.156 | | 0.135 | | | 0.156 | | | | | 0.166 | 0.222 | 0.143 | 0.068 | 0.000 |
| Average Area of Sludge (Ft²) | | 50,604 | | 62,291 | | | 50,604 | | | | | 20,909 | 20,909 | 20,909 | 20,909 | - |
| Volume of Sludge (Ft³) | | 7,907 | | 8,435 | | | 7,907 | | | | | 3,466 | 4,651 | 2,983 | 1,414 | - |
| Volume of Sludge (Yds³) | 0 | 293 | 0 | 312 | 0 | 0 | 293 | 0 | 0 | 0 | 0 | 128 | 172 | 110 | 52 | 0 |
| Volume of Sludge Per Truck Load (Yds³) | 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 | 0.0 | 14.7 | 0.0 | 15.6 | 0.0 | 0.0 | 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 (\$) | \$0 | \$3,528 | \$0 | \$3,744 | \$0 | \$0 | \$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 (\$) | \$0 | \$9,555 | \$0 | \$10,140 | \$0 | \$0 | \$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 (Yds³) | 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 (Ft³) | 540 | 540 | 540 | 540 | 540 | 540 | 540 | 540 | 540 | 540 | 540 | 540 | 540 | 540 | 540 | 540 |
| Disposal Cost (\$) | \$0 | \$87,318 | \$0 | \$92,664 | \$0 | \$0 | \$87,318 | \$0 | \$0 | \$0 | \$0 | \$38,016 | \$51,084 | \$32,670 | \$15,444 | \$0 |
| Total Transportation & Disposal (\$) | \$0 | \$96,873 | \$0 | \$102,804 | \$0 | \$0 | \$96,873 | \$0 | \$0 | \$0 | \$0 | \$42,176 | \$56,674 | \$36,245 | \$17,134 | \$0 |
| TOTAL SLUDGE COST (\$) | \$0 | \$100,401 | \$0 | \$106,548 | \$0 | \$0 | \$100,401 | \$0 | \$0 | \$0 | \$0 | \$43,712 | \$58,738 | \$37,565 | \$17,758 | \$0 |
| | | | | | | | | | | | | | | | | \$465,123 |
| POND LINER: | | | | | | | | | | | | | | | | |
| Total Pond Area (Acres) | | 1.72 | | 1.72 | | | 2.17 | | | | | 1.10 | 1.10 | 1.10 | 1.10 | 0.00 |
| Total Pond Area (Ft²) | 0 | 74923.2 | 0 | 74923.2 | 0 | 0 | 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 (Ft²) | 0 | 89908 | 0 | 89908 | 0 | 0 | 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 (Ft³) | 0 | 1101 | 0 | 1101 | 0 | 0 | 1390 | 0 | 0 | 0 | 0 | 704 | 704 | 704 | 704 | 0 |
| Truck Loads of Liner | 0.0 | 2.0 | 0.0 | 2.0 | 0.0 | 0.0 | 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 (\$) | \$0 | \$360 | \$0 | \$360 | \$0 | \$0 | \$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 (\$) | \$0 | \$1,300 | \$0 | \$1,300 | \$0 | \$0 | \$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 (Ft³) | 540 | 540 | 540 | 540 | 540 | 540 | 540 | 540 | 540 | 540 | 540 | 540 | 540 | 540 | 540 | 540 |
| Disposal Cost (\$) | \$0 | \$11,880 | \$0 | \$11,880 | \$0 | \$0 | \$15,444 | \$0 | \$0 | \$0 | \$0 | \$7,722 | \$7,722 | \$7,722 | \$7,722 | \$0 |
| Total Transportation & Disposal (\$) | \$0 | \$13,180 | \$0 | \$13,180 | \$0 | \$0 | \$17,134 | \$0 | \$0 | \$0 | \$0 | \$8,567 | \$8,567 | \$8,567 | \$8,567 | \$0 |
| TOTAL LINER COST (\$) | \$0 | \$13,540 | \$0 | \$13,540 | \$0 | \$0 | \$17,602 | \$0 | \$0 | \$0 | \$0 | \$8,801 | \$8,801 | \$8,801 | \$8,801 | \$0 |
| | | | | | | | | | | | | | | | | \$79,886 |
| POND BACKFILL: | | | | | | | | | | | | | | | | |
| Backfill required (Yds³) | 8740 | 8580 | 8740 | 8580 | 2517 | 14617 | 16319 | | | | | 9048 | 9048 | 9048 | 9048 | 18070 |
| Backfill Cost (\$/Yd³) | \$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 | \$0 | \$0 | \$0 | \$0 | \$9,048 | \$9,048 | \$9,048 | \$9,048 | \$18,070 |
| | | | | | | | | | | | | | | | | \$122,355 |

COGEMA Mining, Inc.
2005 Restoration and Reclamation Costs
Wyoming Operations
WORKSHEET 4

| POND RECLAMATION COST | Irigaray | | | | | | | 517 | | | | Brine | Brine | Brine | Brine | Permeate |
|-------------------------------------------------|----------|-----------|----------|-----------|----------|----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| | Pond A | Pond B | Pond C | Pond D | Pond E | Pond RA | Pond RB | Pond 1 | Pond 2A | Pond 2B | Pond 3 | Pond 1 | Pond 2 | Pond 3 | Pond 4 | 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 |
| LEAK DETECTION SYSTEM REMOVAL | | | | | | | | | | | | | | | | |
| Volume of Gravel and Piping (Ft³) (Assume 3") | | | | 13851 | | | | | | | | | | | | |
| Quantity per Truckload (Ft³) | | | 540 | 540 | | | | | | | | | | | | |
| Quantity to be Shipped to Licensed Site (Loads) | | | 0.0 | 25.7 | | | | | | | | | | | | |
| Transportation Cost per Truckload | | | \$650 | \$650 | | | | | | | | | | | | |
| Transportation Cost (\$) | | | \$0 | \$16,673 | | | | | | | | | | | | |
| Handling Cost per load | | | \$0 | \$6,156 | | | | | | | | | | | | |
| Disposal Fee per Cubic Foot (\$) | | | \$3.70 | \$3.70 | | | | | | | | | | | | |
| Disposal Cost (\$) | | | \$0 | \$51,249 | | | | | | | | | | | | |
| TOTAL LEAK DETECTION SYSTEM REMOVAL | \$0 | \$0 | \$0 | \$74,077 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$74,077 |
| TOTAL POND RECLAMATION COST | \$9,650 | \$123,415 | \$9,650 | \$203,639 | \$2,923 | \$15,745 | \$135,450 | \$0 | \$0 | \$0 | \$0 | \$62,133 | \$77,159 | \$55,986 | \$36,179 | \$18,070 |
| | | | | | | | | | | | | | | | | \$749,999 |

SUMMARY - IRIGARAY:

TOTAL SLUDGE COST (\$)
TOTAL LINER COST (\$)
TOTAL BACKFILL COST (\$)
TOTAL RADIATION SURVEY COST (\$)
LEAK DETECTION SYSTEM REMOVAL
TOTAL POND RECLAMATION COST

\$307,350
\$44,682
\$68,093
\$6,270
\$74,077
\$500,472

SUMMARY - CHRISTENSEN:

TOTAL SLUDGE COST (\$)
TOTAL LINER COST (\$)
TOTAL BACKFILL COST (\$)
TOTAL RADIATION SURVEY COST (\$)
LEAK DETECTION SYSTEM REMOVAL
TOTAL POND RECLAMATION COST

\$157,773
\$35,204
\$54,262
\$2,288
\$0
\$249,527

TOTAL PROJECT COST - CR and IR (\$)

\$749,999

COGEMA Mining, Inc.
2005 Restoration and Reclamation Costs
Wyoming Operations
WORKSHEET 5

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 | | | | | | | |

COGEMA Mining, Inc.
2005 Restoration and Reclamation Costs
Wyoming Operations
WORKSHEET 6

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 |

COGEMA Mining, Inc.
2005 Restoration and Reclamation Costs
Wyoming Operations
WORKSHEET 6

| | 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 |
|---------------------------------------------------|----------------------------------------|-----------------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|------------------------------------|
| WELLFIELD EQUIPMENT REMOVAL & DISPOSAL | | | | | | | |
| 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 (Ft³/Ft) | 0.016 | 0.016 | 0.016 | 0.016 | | | |
| Chipped Volume (Ft³) | 678 | 2,126 | 1,042 | 1,454 | | | |
| Quantity per Truckload (Ft³) | 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 Yd³ | \$12.00 | \$12.00 | \$12.00 | \$12.00 | | | |
| Yds³ 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 Ft³ | \$11.00 | \$11.00 | \$11.00 | \$11.00 | | | |
| Disposal Fee Per Yd³ | \$297.00 | \$297.00 | \$297.00 | \$297.00 | | | |
| Quantity Per Truck Load (Yds³) | 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 |

COGEMA Mining, Inc.
2005 Restoration and Reclamation Costs
Wyoming Operations
WORKSHEET 6

| 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 |

COGEMA Mining, Inc.
2005 Restoration and Reclamation Costs
Wyoming Operations
WORKSHEET 6

| 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 (Ft³/Ft) | 0.088 | 0.088 | 0.088 | 0.130 | 0.130 | 0.130 | |
| Chipped Volume (Ft³) | 642 | 1018 | 2156 | 6110 | 0 | 0 | |
| Quantity Per Truck Load (Ft³) | 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 Yd³ | \$12.00 | \$12.00 | \$12.00 | \$12.00 | \$0.00 | \$0.00 | |
| Yds³ 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 Ft³ | \$11.00 | \$11.00 | \$11.00 | \$11.00 | \$0.00 | \$0.00 | |
| Disposal Fee Per Yd³ | \$297.00 | \$297.00 | \$297.00 | \$297.00 | \$0.00 | \$0.00 | |
| Quantity Per Truck Load (Yds³) | 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 |

COGEMA Mining, Inc.
2005 Restoration and Reclamation Costs
Wyoming Operations
WORKSHEET 6

| 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 Yd³ (\$) | \$12.00 | \$12.00 | \$12.00 | \$12.00 | \$0.00 | \$0.00 | |
| Yds³ 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 Ft³ | \$11.00 | \$11.00 | \$11.00 | \$11.00 | \$0.00 | \$0.00 | |
| Disposal Fee Per Yd³ | \$297.00 | \$297.00 | \$297.00 | \$297.00 | \$0.00 | \$0.00 | |
| Quantity Per Truck Load (Yds³) | 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 |

COGEMA Mining, Inc.
2005 Restoration and Reclamation Costs
Wyoming Operations
WORKSHEET 7

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 (Yds³) | 8067 | 4033 | 0 | 0 | 0 | 0 | |
| Unit Cost - Haul/Place (\$/Yd³) | \$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 (Yds³) | 32267 | 19360 | 0 | 0 | 0 | 0 | |
| Unit Cost - Haul/Place (\$/Yd³) | \$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 |

COGEMA Mining, Inc.
2005 Restoration and Reclamation Costs
Wyoming Operations
WORKSHEET 7

| | 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 |
|------------------------------------------------|----------------------------------------|-----------------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|------------------------------------|
| TOPSOIL REPLACEMENT & REVEGETATION | | | | | | | |
| 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 | |
| Transportation Cost per Load | \$650 | \$650 | \$650 | \$650 | \$650 | \$650 | |
| Transportation Cost (\$) | \$708 | \$472 | \$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 | \$3,145 | \$2,096 | \$0 | \$0 | \$0 | \$0 | \$5,241 |
| 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 (\$) | \$63,973 | \$59,855 | \$31,505 | \$52,508 | \$18,556 | \$19,668 | \$246,065 |
| 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 |

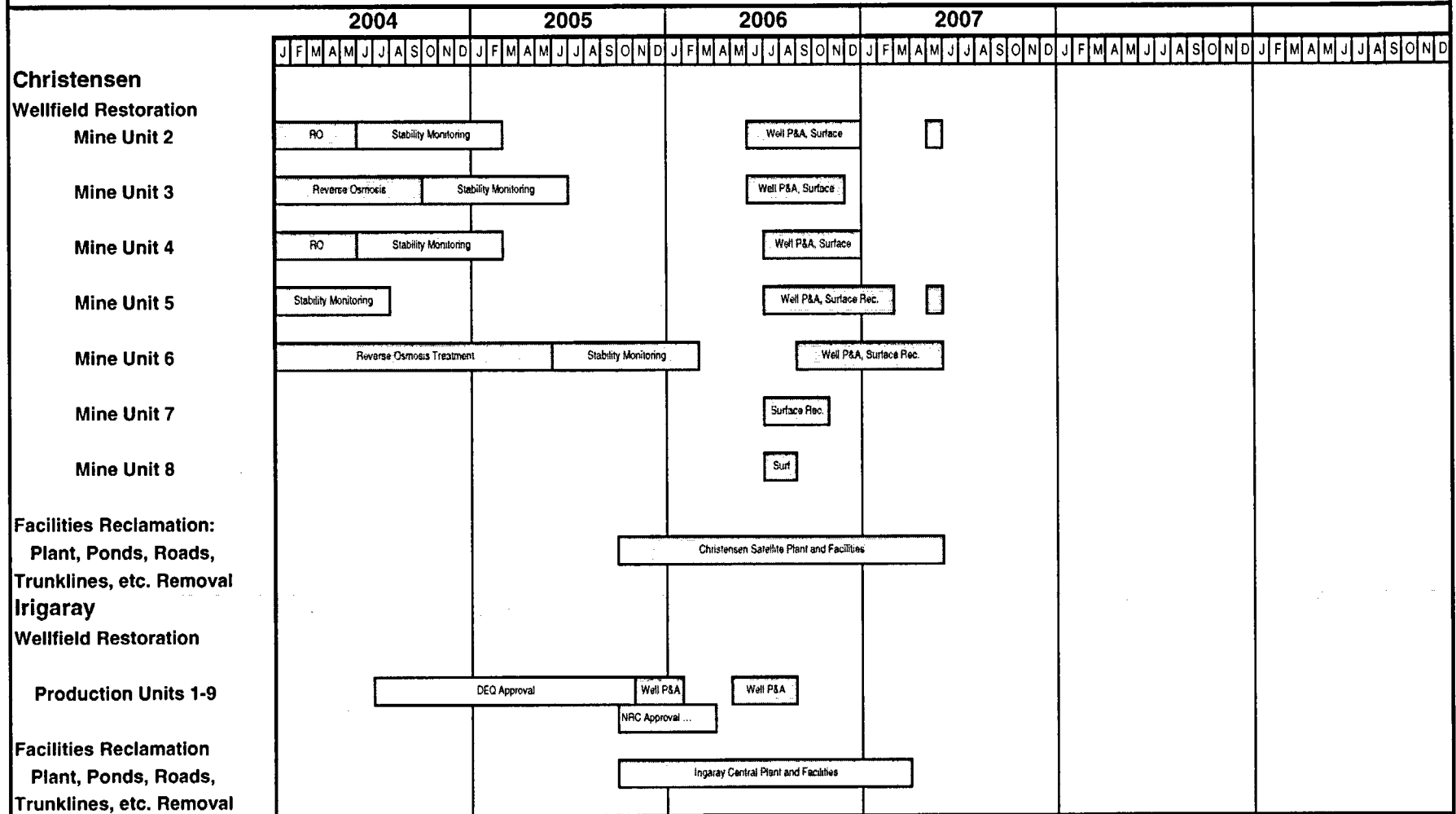
COGEMA Mining, Inc.
2005 Restoration and Reclamation Costs
Wyoming Operations
WORKSHEET 7

| | 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 |
|------------------------------------------------|----------------------------------------|-----------------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|------------------------------------|
| TOPSOIL REPLACEMENT & REVEGETATION | | | | | | | |
| 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 (Yds³) | 0 | 0 | 0 | 0 | 0 | 0 | |
| Unit Cost - Haul/Place (\$/Yd³) | \$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 (Yds³) | 0 | 0 | 0 | 0 | 0 | 0 | |
| Unit Cost - Haul/Place (\$/Yd³) | \$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 | \$272,412 | \$198,374 | \$89,001 | \$132,377 | \$19,369 | \$20,598 | \$732,131 |

COGEMA Mining, Inc.
2005 Restoration and Reclamation Costs
Wyoming Operations
WORKSHEET 8

| 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 |

Figure 1



**2005 SURETY ESTIMATE
SUPPORTING ATTACHMENTS**



**U.S. Department of
Labor**
Bureau of Labor Statistics
Bureau of Labor Statistics Data

www.bls.gov



Search | A-Z Index

[BLS Home](#) | [Programs & Surveys](#) | [Get Detailed Statistics](#) | [Glossary](#) | [What's New](#) | [Find It! In DOL](#)

Change Output
Options:

From: To:

☐ include graphs NEW!

[More Formatting Options](#) ➔

Data extracted on: October 3, 2005 (1:41:05 PM)

Consumer Price Index - All Urban Consumers

| Series Id: CUUR0000SAD Not Seasonally Adjusted Area: U.S. city average Item: All items Base Period: 1982-84=100 | | | | | | | | | | | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual | HALF1 | HALF2 |
| 1995 | 150.3 | 150.9 | 151.4 | 151.9 | 152.2 | 152.5 | 152.5 | 152.9 | 153.2 | 153.7 | 153.6 | 153.5 | 152.4 | 151.5 | 153.2 |
| 1996 | 154.4 | 154.9 | 155.7 | 156.3 | 156.6 | 156.7 | 157.0 | 157.3 | 157.8 | 158.3 | 158.6 | 158.6 | 156.9 | 155.8 | 157.9 |
| 1997 | 159.1 | 159.6 | 160.0 | 160.2 | 160.1 | 160.3 | 160.5 | 160.8 | 161.2 | 161.6 | 161.5 | 161.3 | 160.5 | 159.9 | 161.2 |
| 1998 | 161.6 | 161.9 | 162.2 | 162.5 | 162.8 | 163.0 | 163.2 | 163.4 | 163.6 | 164.0 | 164.0 | 163.9 | 163.0 | 162.3 | 163.7 |
| 1999 | 164.3 | 164.5 | 165.0 | 166.2 | 166.2 | 166.2 | 166.7 | 167.1 | 167.9 | 168.2 | 168.3 | 168.3 | 166.6 | 165.4 | 167.8 |
| 2000 | 168.8 | 169.8 | 171.2 | 171.3 | 171.5 | 172.4 | 172.8 | 172.8 | 173.7 | 174.0 | 174.1 | 174.0 | 172.2 | 170.8 | 173.6 |
| 2001 | 175.1 | 175.8 | 176.2 | 176.9 | 177.7 | 178.0 | 177.5 | 177.5 | 178.3 | 177.7 | 177.4 | 176.7 | 177.1 | 176.6 | 177.5 |
| 2002 | 177.1 | 177.8 | 178.8 | 179.8 | 179.8 | 179.9 | 180.1 | 180.7 | 181.0 | 181.3 | 181.3 | 180.9 | 179.9 | 178.9 | 180.9 |
| 2003 | 181.7 | 183.1 | 184.2 | 183.8 | 183.5 | 183.7 | 183.9 | 184.6 | 185.2 | 185.0 | 184.5 | 184.3 | 184.0 | 183.3 | 184.6 |
| 2004 | 185.2 | 186.2 | 187.4 | 188.0 | 189.1 | 189.7 | 189.4 | 189.5 | 189.9 | 190.9 | 191.0 | 190.3 | 188.9 | 187.6 | 190.2 |
| 2005 | 190.7 | 191.8 | 193.3 | 194.6 | 194.4 | 194.5 | 195.4 | 196.4 | | | | | | 193.2 | |

[Frequently Asked Questions](#) | [Freedom of Information Act](#) | [Customer Survey](#)
[Privacy & Security Statement](#) | [Linking to Our Site](#) | [Accessibility](#)

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

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

ATTACHMENT 1
POWER BILL HISTORY
Christensen Ranch Mine

| Month | Billed Days | Billed Hours | Billed KWH | Active HP | KWH/HP* | \$/KWH |
|--------------|----------------|-----------------|-------------------|--------------|--------------|---------------|
| Jan-02 | 30 | 720 | 820,800 | 1,225 | 0.93 | 0.0380 |
| Feb-02 | 33 | 792 | 974,400 | 1,346 | 0.91 | 0.0358 |
| Mar-02 | 29 | 696 | 868,800 | 1,347 | 0.93 | 0.0374 |
| Apr-02 | 27 | 648 | 793,200 | 1,385 | 0.88 | 0.0391 |
| May-02 | 30 | 720 | 798,000 | 1,387 | 0.80 | 0.0381 |
| Jun-02 | 29 | 696 | 760,800 | 1,377 | 0.79 | 0.0371 |
| Jul-02 | 33 | 792 | 838,800 | 1,375 | 0.77 | 0.0350 |
| Aug-02 | 30 | 720 | 746,400 | 1,340 | 0.77 | 0.0363 |
| Sep-02 | 32 | 768 | 724,800 | 1,345 | 0.70 | 0.0365 |
| Oct-02 | 35 | 840 | 840,000 | 1,345 | 0.74 | 0.0341 |
| Nov-02 | 25 | 600 | 740,400 | 1,345 | 0.92 | 0.0374 |
| Dec-02 | 38 | 912 | 900,000 | 1,345 | 0.73 | 0.0355 |
| Jan-03 | 31 | 744 | 950,400 | 1,353 | 0.94 | 0.0343 |
| Feb-03 | 28 | 672 | 792,000 | 1,353 | 0.87 | 0.0369 |
| Mar-03 | 27 | 648 | 775,200 | 1,353 | 0.88 | 0.0377 |
| Apr-03 | 29 | 696 | 708,000 | 1,288 | 0.79 | 0.0388 |
| May-03 | 28 | 672 | 760,800 | 1,288 | 0.88 | 0.0366 |
| Jun-03 | 29 | 696 | 723,600 | 1,299 | 0.80 | 0.0375 |
| Jul-03 | 35 | 840 | 937,200 | 1,299 | 0.86 | 0.0329 |
| Aug-03 | 33 | 792 | 805,200 | 1,301 | 0.78 | 0.0344 |
| TOTAL | 611 | 14664 | 16,258,800 | 1,317 | 0.842 | 0.0364 |

* Note: $\text{KWH/HP} = \text{Billed KWH} / \text{Billed Hours} / \text{Active HP}$

CC: T&N
WWI
BB



Petrotek

Petrotek Engineering Corporation 9088 South Edgeline Blvd., Suite 105 Loveland, 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,



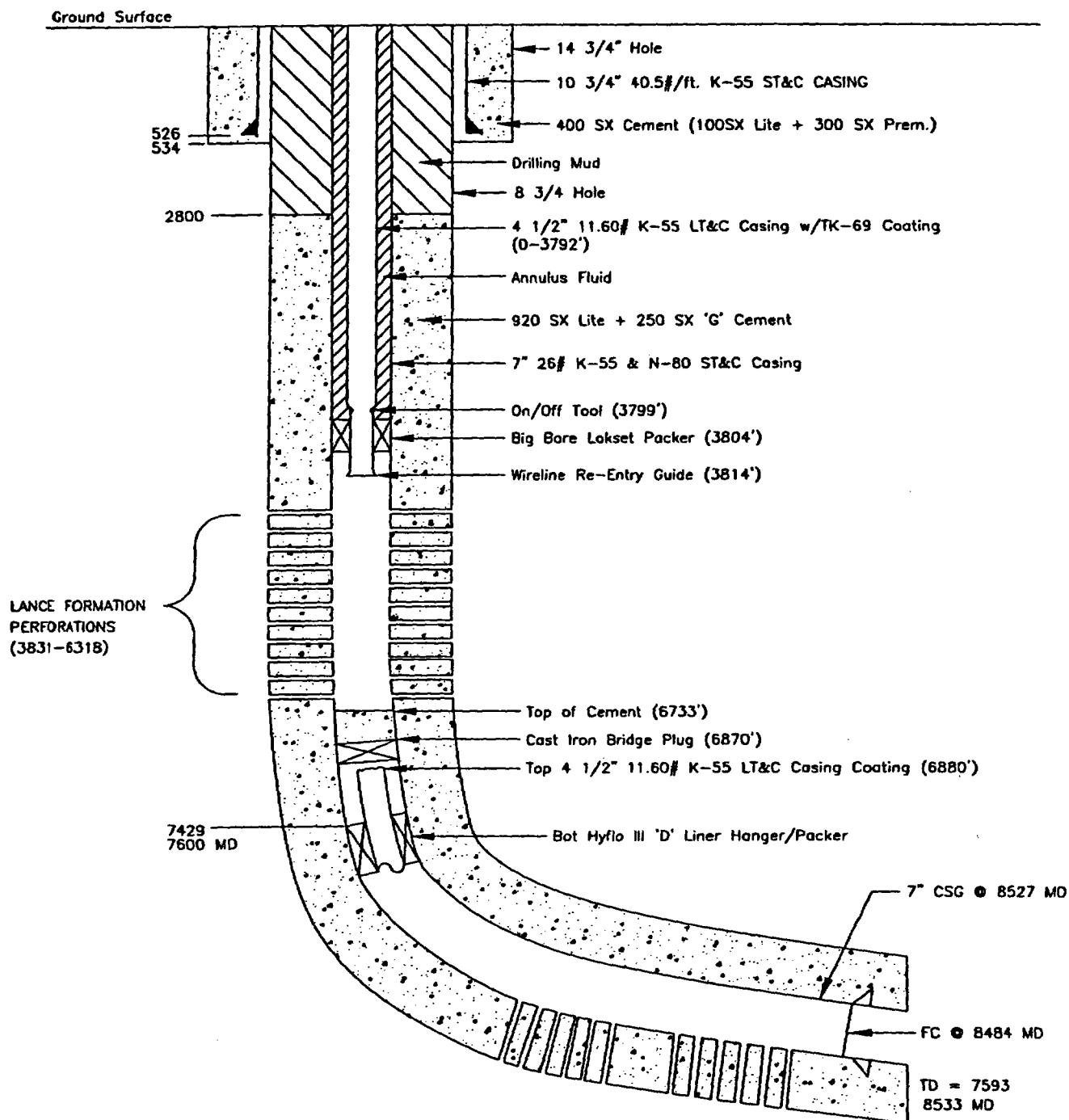
Petrotek Engineering Corporation
Hal Demuth

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 |
| <i>Subcontractors - Direct bill to COGEMA</i> | | | |
| 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 |
| <i>Total Estimated Subcontractor Charges</i> | | | \$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 |
| <i>Total Estimated Petrotek Charges</i> | | | \$10,050 |
| TOTAL ESTIMATED COST | | | \$73,950 |
| <i>Assumptions:</i> | | | |
| 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 |
| <i>Subcontractors - Direct bill to COGEMA</i> | | | |
| 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 |
| <i>Total Estimated Subcontractor Charges</i> | | | \$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 |
| <i>Total Estimated Petrotek Charges</i> | | | \$10,050 |
| TOTAL ESTIMATED COST | | | \$66,250 |
| <i>Assumptions:</i> | | | |
| 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

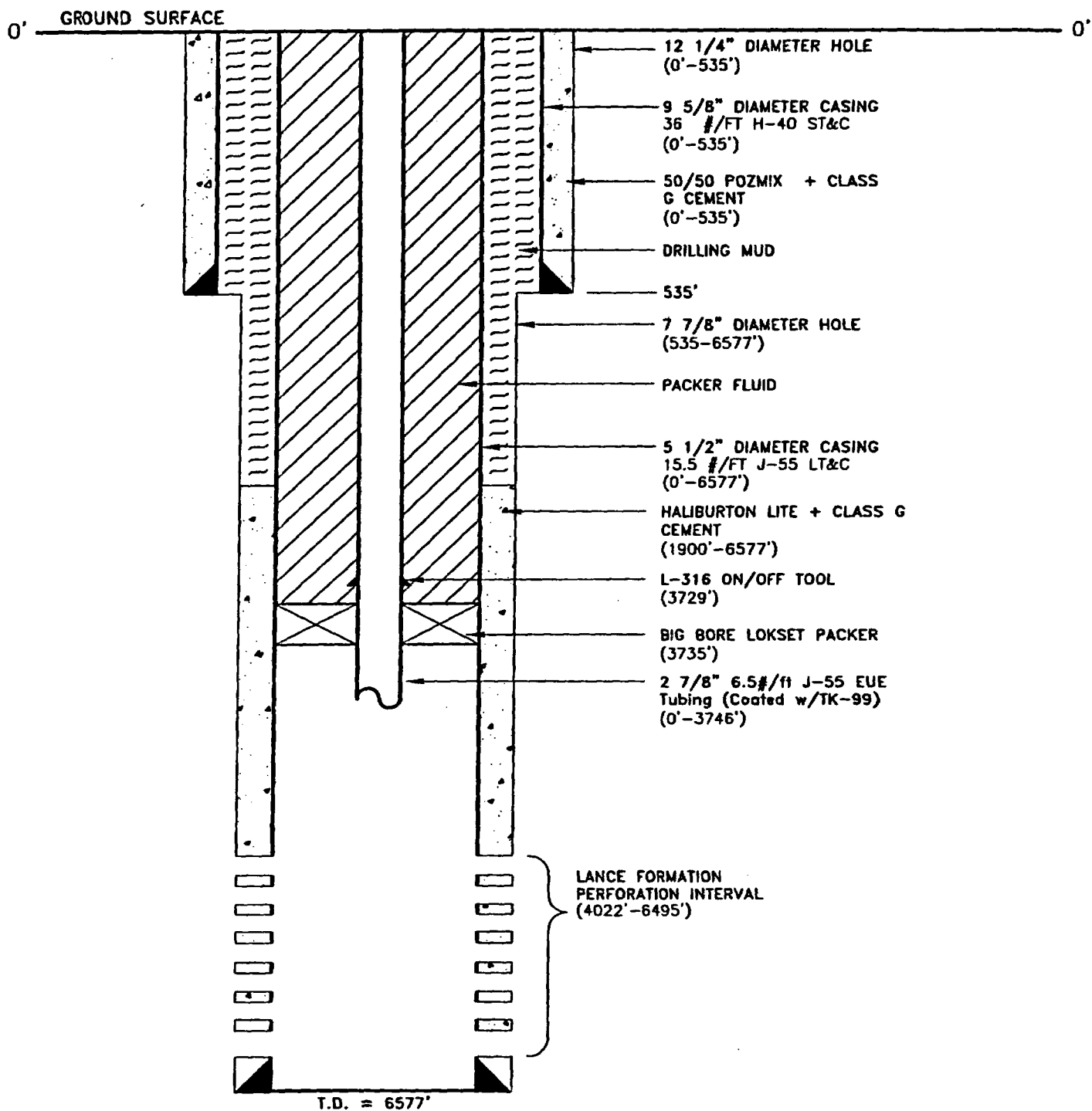
**COGEMA Mining Inc.
CHRISTENSEN RANCH PROJECT**

**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
Littleton, Colorado 80129 (303) 290-9414



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

9088 South Ridgeline Blvd., Suite 105
Littleton, Colorado 80129 (303) 290-9414