



COGEMA

Mining, Inc.

February 26, 1999

DOCKET NO. 40-8502

License No. SUA-1341

Director
Division of Nuclear Material Safety - Region IV
U. S. Nuclear Regulatory Commission
611 Ryan Plaza Drive, Suite 400
Arlington, Texas 76011-8064

**RE: Submittal of Semi-Annual Effluent and Environmental Monitoring Report,
Irigary and Christensen Ranch Projects**

Dear Mr. Sir:

Pursuant to Condition Nos. 9.2 and 12.1 of Source Material License No. SUA-1341, please find attached two copies of the Semi-Annual Effluent and Environmental Monitoring Report covering July through December, 1998 for COGEMA Mining Inc.'s Irigary and Christensen Ranch ISL projects.

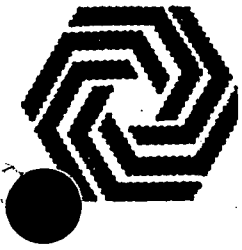
Please contact me if you should have any questions regarding the attached report, or require additional information.

Sincerely,

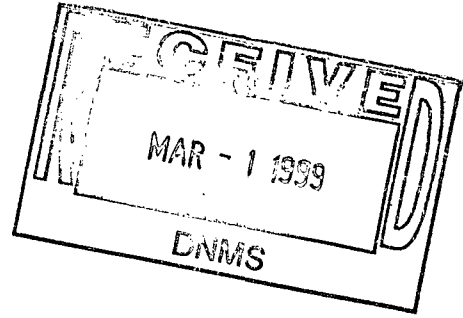
T. W. Hardgrove
Manager, Environmental and Regulatory Services

Attachment

cc: NRC/Headquarters - Rockville, MD
WDEQ - R. Giurgevich, District III
COGEMA - D.L. Wichers
COGEMA - J. Vaselein, C. Toal



**COGEMA
Mining, Inc.**



IRIGARAY AND CHRISTENSEN RANCH PROJECTS

**SEMI-ANNUAL EFFLUENT REPORT (10 CFR 40.65)
July 1, 1998 - December 31, 1998**

**NRC LICENSE SUA-1341
Docket No. 40-8502
and
WDEQ PERMIT TO MINE No.478**

February, 1999

SEMI-ANNUAL EFFLUENT AND MONITORING REPORT

JULY 1, 1998 THROUGH DECEMBER 31, 1998

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

and

Wyoming Permit To Mine No. 478

**COGEMA Mining, Inc.
Irigaray and Christensen Ranch Properties**

February, 1999

**SEMI-ANNUAL EFFLUENT AND MONITORING REPORT
JULY 1, 1998 THROUGH DECEMBER 31, 1998
IRIGARAY AND CHRISTENSEN RANCH PROJECTS**

1.0 INTRODUCTION

In accordance with Section 12.1 of the NRC Source Material License No. SUA-1341, 10 CFR 40.65, and requirements of WDEQ Permit to Mine No. 478, COGEMA Mining, Inc. (COGEMA) hereby submits the results of the Irigaray and Christensen Ranch effluent and environmental monitoring programs for the semi-annual report period of July 1, 1998 through December 31, 1998. Note that all referenced tables and appendixes are located at the back of this report.

2.0 OPERATIONAL MONITORING DATA

2.1 Operations Summary

2.1.1 Operations Summary - Irigaray Site

Irigaray plant production operations consisted of processing uranium loaded resin from the Christensen site. This includes elution of the resin and then precipitation, filtering and drying of the yellowcake. During the report period, a total of 119,637 pounds of uranium as U_3O_8 was captured.

Irigaray wellfield restoration operations continued in Production Units 4 through 9. Production Unit 5 completed the reverse osmosis/permeate injection phase on August 16, 1998. Production Units 4 and 5 then began the recirculation phase which was completed on September 29, 1998. Production Unit 9 began the reverse osmosis/permeate injection phase on November 17, 1998. Production Units 6 through 8 continued in a limited ground water sweep phase throughout the reporting. See the Restoration Progress report in Section 6.0 for details.

The layout of the Irigaray site, including the wellfields, is shown on the Irigaray Project - General Location Map, located in Appendix 4.

2.1.2 Operations Summary - Christensen Ranch Site

Christensen plant production operations consisted of processing recovery solutions through ion exchange resin columns, and the transportation of the loaded resin to the Irigaray site. Stripped resin is then transported back to the Christensen site for reuse.

Christensen wellfield operations consisted initially of production from Mine Unit 5 modules 5-1 through 5-5 and Mine Unit 6 modules 6-1 through 6-5. Modules 6-1 through 6-4 were shut down on September 30, 1998, to temporarily reduce production. Module 5-2 was shut off November 12, 1998, due to its low grade.

Groundwater sweep restoration activities consisted only of limited recovery in Mine Units 2, 3 and 4, for excursion control. All other restoration activities ceased in late July due to the new selenium standard in the NPDES permit issued July 31, 1998. Mine Unit 3 will begin the reverse osmosis treatment phase, upon approval of the Class I injection well. See the Restoration Progress report in Section 6.0 for details.

Wellfield development and baseline sampling in Mine Unit 7 continued. Wellfield development also continued in Mine Unit 8, consisting of locating and sealing existing exploration holes, and delineation drilling. Development of new wellfields begins by locating and sealing existing exploration holes. This is followed by drilling pilot holes to delineate the ore body. Baseline wells and monitor wells are then installed for the baseline sampling program. Finally the production and injection wells are installed.

The layout of the Christensen site, including the wellfields, is shown on the Christensen Ranch - Area Facilities Location Map, located in Appendix 4.

2.2 Injection and Recovery Activities

2.2.1 Volumes Injected and Recovered

Volumes injected and recovered from the wellfields at the Irigaray and Christensen sites during the report period are listed in the following tables. All volumes injected or recovered at the Irigaray site are from restoration activities. The average recovery bleed at the Christensen site was 1.0%, while the average operating recovery rate was 2,869 gpm. The NRC and DEQ licenses authorizes a maximum flow rate of 4,000 gallons per minute, exclusive of restoration flow.

Irigaray Restoration Flow Volumes (Mine Units 4-9)

1998 Month	Gallons Injected x 1,000	Gallons Recovered x 1,000	Average Recovery Flow Rate (gpm)
July	2,227	2,418	62
August	4,516	4,532	107
September	6,897	6,702	166
October	0	0	0
November	1,820	2,146	122
December	4,739	5,586	140
TOTAL	20,199	21,384	119 (operating average)

Christensen Production Flow Volumes (Mine Units 5 & 6)

1998 Month	Gallons Injected x 1,000	Gallons Recovered x 1,000	Average Recovery Flow Rate (gpm)
July	143,139	144,560	3,585
August	188,841	190,587	3,896
September	127,390	128,683	3,282
October	127,390	128,683	3,187
November	87,965	89,095	1,775
December	61,492	62,503	1,550
TOTAL	736,217	744,111	2,869 (operating average)

Christensen Restoration Flow Volumes (Mine Units 2-4)

1998 Month	Gallons Injected x 1,000	Gallons Recovered x 1,000	Average Recovery Flow Rate (gpm)
July	0	4,900	122
August	0	661	13
September	0	378	9
October	0	0	0
November	0	402	8
December	0	308	8
TOTAL	0	6,649	30 (operating average)

2.2.2 Mechanism for Determining Volumes

During this reporting period, recovery and injection gallons from the Irigaray site were calculated by totalizing flow meters on the recovery and injection trunklines at the restoration plant.

At the Christensen Ranch site, recovery and injection gallons were calculated by totalizing flow meters on the plant recovery and injection trunklines. Other plant flow meters monitoring the surface discharge and bleeds to the ponds were used to verify the net difference between recovery and injection gallons. Individual well meters are also monitored for flow comparison, wellfield balance and backup purposes.

2.2.3 Injection Manifold Pressures

Injection manifold pressures are regulated to keep wellhead operating pressures from exceeding the limits specified in Section 11.1 of the NRC license and in the DEQ permit (120 psi at the Irigaray site and 140 psi at the Christensen site). However, a higher limit of 144 psi at the Irigaray site and 168 psi at the Christensen site is allowed for maintenance tasks. Section 11.1 of the NRC license requires that the injection manifold pressures be recorded daily. To better monitor the injection pressures, chart recorders continuously record the injection manifold pressures at each wellfield module.

The recorders at the Christensen site showed occasional short-term pressure readings which exceeded the 140 psi operating pressure limit but not the maintenance limit. These instances resulted from various activities such as filter changes, flow adjustments, power bumps, pump restart activities, etc. Whenever an instance such as this occurs, the operator or foreman makes a notation on the appropriate form explaining the exceedance. No exceedances of the 168 psi maintenance limit were recorded.

No exceedances of the 120 psi limit or the 144 psi maintenance limit were recorded at the Irigaray Site.

2.3 Waste Water Control

2.3.1 Evaporation Ponds

Weekly inspections were conducted for the eleven lined evaporation ponds at the Irigaray site, and the four lined evaporation ponds and one unlined permeate storage pond at the Christensen site. The following ponds exceeded their freeboard limits during the second half of 1998: Pond IR-B (July 2), Pond IR-2A and IR-3 (July 10), Pond IR-3 (July 17), Pond IR-2A, IR-2B, and IR-3 (August 6), Pond IR-3 (Aug 12), Pond IR-1 (September 17), Pond IR-1, IR-3 (September 23), Pond IR-1, IR-2A, and IR-2B (October 29), and Pond IR-D, IR-1, IR-2A, IR-2B, and IR-3 (November 5). All of the exceedances occurred at the Irigaray site. The temporary exceedances occurring on August 6 and 12, 1998, were due to the transfer of water from Pond IR-1 which was required to repair a hole in the liner. Note that this is allowed during pond repair periods as per NRC License Section 10.6. All other exceedances at the Irigaray site were the result of unusually heavy precipitation events. None of the ponds were in danger of overflowing at any time.

2.3.2 Deep Disposal Well

A total of 92,921 gallons was injected into COGEMA's Class I injection well, COGEMA DW No. 1, located at the Christensen site. Injection into this well was temporarily suspended on October 27, 1998, in order to re-complete the well and conduct several tests.

2.4 Well Integrity Test Summary

No wells were installed at the Irigaray site. Mechanical integrity testing was conducted on 201 wells in Mine Units 8 and 9 to meet compliance with the requirement to repeat testing for every five years of operation. A total of 14 well failures (6.9%) were located and since they may be used as recovery wells during restoration, they have not yet been plugged and abandoned.

Injection and production well installation occurred in Mine Unit 7 at the Christensen site through October, at which time well installation was temporarily suspended. Mechanical integrity testing was conducted on 88 wells in Mine Unit 7 resulting in no failures (0.0%). Mechanical integrity testing was also conducted on 179 wells in Mine Unit 2, 3, 4, 5, and 6, resulting in seven failures (3.9%). These tests were conducted either after the well was entered with a drilling tool, or to meet compliance with the requirement to repeat testing for every five years of operation. The failed wells at the Christensen site will either be used during restoration as recovery wells, repaired, or plugged and abandoned. A summary of all mechanical integrity test results are included in Appendix 1.

3.0 EFFLUENT AND ENVIRONMENTAL MONITORING DATA

3.1 Surface Water Monitoring Data

3.1.1 Routine Surface Water Monitoring

Requirements for surface water monitoring include quarterly grab samples from upstream and downstream Willow Creek monitoring stations at both the Irigaray and Christensen Ranch sites. An annual sample is also obtained from the Powder River downstream from the Irigaray site, which is downstream from the confluence with Willow Creek. The analysis of the Powder River annual sample was included in the semi-annual report dated August 1998. Samples are also taken from Willow Creek immediately adjacent to the operating wellfields at both Irigaray and Christensen Ranch. The map showing the sampling locations is found in Appendix 4.

The sample from location CR GS-03 at the Christensen site on July 23, 1998, showed an exceedance of the uranium and lead 210 effluent concentration limits given in Appendix B of 10 CFR Part 20. The uranium value was $4.9 \text{ E-}07 \text{ uCi/ml}$, while the Appendix B limit is $3.0 \text{ E-}07 \text{ uCi/ml}$. A review of the sample data indicated that discharge of restoration water was occurring upstream into Willow Creek, under COGEMA's NPDES permit WY-0033642, when this sample was collected. The discharge permit requires a daily maximum limit of 4.0 mg/l of total uranium ($2.7 \text{ E-}06 \text{ uCi/ml}$) and a monthly average of 2.0 mg/l of total uranium ($1.4 \text{ E-}06 \text{ uCi/ml}$). These uranium values were not exceeded by the discharge of restoration water into Willow Creek. The lead 210 value was $1.3 \text{ E-}08 \text{ uCi/ml}$ while the Appendix B limit is $1.0 \text{ E-}08 \text{ uCi/ml}$. To verify this value, the outside lab was contacted to rerun the lead 210 analysis, however, this was not possible since no sample remained. A review of sample data from location CR GS-01 (downstream and from CR GS-03) and from the surface discharge location (upstream from CR GS-03), noted that both locations showed lead 210 values that were not detectable ($< 1.0 \text{ E-}09 \text{ uCi/ml}$) for July.

The next quarterly sample from CR GS-03 was collected on November 19, 1998, and also showed a lead 210 value which was not detectable ($< 1.0 \text{ E-}09 \text{ uCi/ml}$).

Surface water sample analytical data are given in Tables 1A and 1B. No other abnormal results were found and no trends were noted.

3.1.2 NPDES Monitoring Program

Surface discharge occurred at the Irigaray site from discharge point 001 intermittently throughout the report period, in accordance with the provisions of Wyoming NPDES Permit No. WY0028801. The discharge consisted of treated groundwater sweep solutions generated during the aquifer restoration in Production Unit 4, 5, and 9 as well as treated water from the Irigaray restoration ponds.

An exceedance of the surface discharge limitation for dissolved radium 226 occurred in July and October, 1998. During the first three sampling periods in July, the highest dissolved radium value never exceeded 1.4 pCi/L which is below the 3.0 pCi/L maximum monthly average and 10.0 pCi/L daily maximum limitations. On July 31, 1998, the surface discharge sample had a dissolved radium value of 21.2 pCi/L which exceeded the daily maximum limitation. When this value was averaged in with the previous samples it also resulted in an exceedance of the maximum monthly average limitation. Surface discharge was immediately shut off until the cause for the high radium value could be determined. No discharge occurred at point 001 during the month of August.

Prior to restarting surface discharge in September the membranes in the reverse osmosis system were cleaned in an effort to reduce the dissolved radium values to dischargeable levels. On September 23, 1998, surface discharge was restarted at point 001, and a sample was obtained for analysis. A quick count of 4.1 pCi/L of dissolved radium was received from the contract laboratory on September 25, 1998. Although this value is below the daily maximum limitation, COGEMA decided to again shut off surface discharge until the dissolve radium levels could be reduced to a more acceptable level.

An exceedance of the surface discharge monthly average limitation for dissolved radium 226 occurred at point 001 during the month of October, 1998. Due to the intermittent discharge which occurred during October, only two discharge samples were obtained for analysis. The first sample collected on October 15, 1998, had a dissolved radium 226 value of 5.8 pCi/l. The second sample collected on October 22, 1998, had a dissolved radium 226 value of 5.7 pCi/l. Neither of these samples exceeded the daily maximum limitation of 10.0 pCi/l. When the values were averaged an exceedance of the maximum monthly average limitation was observed. Surface discharge was immediately shut off upon receiving the second analysis from the contract lab.

Prior to restarting surface discharge in November, the membranes in the reverse osmosis system were cleaned and continued improvements were made in the barium chloride addition system. A pre-discharge sample was collected on November 3, 1998, and sent with no preparation to the contract lab for analysis of radium 226. The results of the analysis showed radium 226 values to be less than 0.2 pCi/l. Surface discharge was restarted and a sample was collected and sent to the contract lab on November 5, 1998. The radium 226 results from the sample showed the dissolved

radium 226 value to be less than 0.2 pCi/l.

A weekly surface discharge sample collected on November 11, 1998, was prepared and sent to the lab for analysis of dissolved radium 226. The results of the sample showed the dissolved radium 226 value to be 10.1 pCi/l. An investigation revealed that a canister filter used to prepare the sample, prior to being sent to the lab for analysis, had been used for an excessively long period of time and appears to be the cause of the high radium 226 values in the surface discharge samples.

On November 18, 1999, a weekly surface discharge sample was collected and a new canister filter was used to prepare the samples prior to being sent to contract the lab for analysis. The lab analysis showed the radium 226 values to be less than 0.2 pCi/l. No other exceedances were noted during this reporting period.

In summary, corrective action to reduce the dissolved radium to dischargeable levels, consisted of replacing the reverse osmosis membranes. This, along with improvements in barium chloride addition to the pond water prior to the feed of the reverse osmosis system should eliminate any further problems with dissolved radium limits.

Surface discharge occurred only until July 31, 1998, at the Christensen site (discharge point 002) in accordance with the provisions of Wyoming NPDES Permit No. WY0033642. The discharge consisted of groundwater sweep solutions generated during aquifer restoration in Mine Units 2, 3, and 4. All permit limitations were met during this reporting period.

Surface discharge sample analysis data from both discharge points are given in Tables 2a and 2b. No other discharge points were used.

3.1.3 Evaporation Pond Analyses

Sampling of the evaporation ponds at both the Irigaray and Christensen Ranch sites occurred on a quarterly basis. Analytical data from the pond samples collected in the third and fourth quarters of 1998 are given in Table 3.

3.2 Groundwater Monitoring Program Results

3.2.1 Irigaray and Christensen Ranch Sites

Sampling of all monitor and trend wells was performed on a weekly, biweekly, monthly or quarterly basis at the Irigaray and Christensen Ranch sites. The time frame was dependent on the status of the well or wellfield in which it was located.

Analysis data from all monitor and trend well sampling are given in Appendix 2. Locations of the monitor and trend wells are found on the Irigaray and Christensen Ranch General Location Maps located in Appendix 4.

Ten monitor wells were on excursion status at various times during this reporting period. Seven of the wells are at the Irigaray site, located within restored wellfields or within a wellfield undergoing restoration. Three wells are located at the Christensen site. Eight wells remained on excursion status during the reporting period. Two other wells were taken off excursion status during this reporting period, and are summarized below. Monthly and quarterly excursion status reports are issued to the WDEQ and NRC, respectively. Therefore, the status of each monitor wells which remain on excursion status will not be repeated in this report.

Christensen Ranch

Perimeter Ore Zone Monitor Well MW89: Christensen Production Unit 2.

Date of Initial Excursion: August 7, 1998

Date of Excursion Termination: August 26, 1998

Perimeter Ore Zone Monitor Well 6MW40: Christensen Production Unit 6.

Date of Initial Excursion: December 23, 1998

Date of Excursion Termination: January 12, 1999

3.2.2 Irigaray 5I7/USMT Test Site

Sampling of the 5I7/USMT site monitor wells is conducted annually. Sample analysis data for 1998 was given in the Annual Report to the WDEQ, submitted in August 1998.

3.2.3 Regional Groundwater Monitoring

Regional groundwater samples are collected on a quarterly basis from seven wells at the Christensen site and semi-annually from one well at the Irigaray site. Sample data analysis for the report period are given in Table 4. Water levels can not be obtained from any of the wells because they have closed plumbing systems with no access for a water level probe. The sampling locations are provided on the Environmental Monitoring Station Locations Map, located in Appendix 4. No trends or abnormal results were noted.

3.3 Other Radiological Effluent Monitoring Data

3.3.1 Radon Gas

Radon gas is monitored continuously at six environmental air sampling locations surrounding the Irigaray site and at four locations surrounding the Christensen Ranch site. The sampling locations are shown on the Environmental Monitoring Stations Location map, located in Appendix F of the 1998 Annual Report to the WDEQ. Outdoor air radon detectors are exchanged and analyzed quarterly by Landauer, Inc., a NVLAP accredited company. Sample analysis data are given in Tables 5a and 5b. No unusual trends or abnormal results were noted.

In addition to the environmental radon monitoring, estimates are made of the release of radon from the Irigaray and Christensen Ranch sites during operations. These estimates are based upon the predicted radon source term calculation provided in the 1-5-96 NRC License Renewal Application document. The radon source term, or maximum radon release to the environment, for the Irigaray site was calculated to be 391 Ci/yr at a flow rate of 500 gallons per minute (gpm). The radon source term for the Christensen Ranch site was calculated to be 1515 Ci/yr at a flow rate of 3,600 gpm. The source term for each site can then be expressed as 0.065 Ci/month/gpm (Irigaray) and 0.035 Ci/month/gpm (Christensen). Using these factors and the total average of both production and restoration flows, the radon release to the environment from each site during the reporting period is estimated as follows:

Irigaray Radon Release to the Environment

1998 Month	Mine Units 4 - 9 Total Average Flow (gpm) Restoration	Radon Release (curies)
July	62	4.0
August	107	7.0
September	166	10.8
October	0	0
November	122	7.9
December	140	9.1
TOTAL		38.8

Christensen Ranch Radon Release to the Environment

1998 Month	Mine Units 2 - 6 Total Average Flow (gpm) Production and Restoration	Radon Release (curies)
July	3,707	129.7
August	3,909	136.8
September	3,291	115.2
October	3,187	111.5
November	1,783	62.4
December	1,558	54.5
TOTAL		610.1

3.3.2 Gamma Radiation

Gamma radiation is monitored continuously at five environmental air sampling locations surrounding the Irigaray site and at four locations surrounding the Christensen Ranch site. TLDS are exchanged and analyzed quarterly by Thermo Nutech, a NVLAP accredited company. The dosimeter analysis data are given in Tables 6a and 6b. No unusual trends or abnormal results were noted.

3.3.3 Soils and Vegetation

Soil and vegetation samples are collected on an annual basis at five environmental air sampling locations surrounding the Irigaray site and at four locations surrounding the Christensen Ranch site. Soil and vegetation sampling is scheduled in the spring and the analytical results are reported in the semi-annual report covering the first half of each year.

3.3.4 Dryer Stack Emissions and Environmental Locations

The yellowcake dryer operated intermittently during the report period, on a campaign basis. A total of 122,853 of yellowcake (as U3O8) were processed through the dryer during this six month report period.

Semi-annual isokinetic testing of the dryer stack for radiological and particulate emissions was conducted by Western Environmental, Inc., on October 29, 1998. A copy of the emissions test report is included as Appendix 3. A summary of the test results is as follows:

Constituent	lbs./hour*	μCi/ml*	WDEQ Permit Limits
Total Particulate	0.035 (12% of limit)	---	0.30 lbs/hour
Unat (Total as U3O8)	0.0063	3.08 E-10	---
Thorium-230 (Total)	---	1.21 E-12	---
Radium-226 (Total)	---	1.54 E-12	---
Lead-210 (Total)	---	2.94 E-11	---

*Based on an average of analytical results from two tests.

Air particulate sampling is conducted at five of the Irigaray site environmental air sampling locations on a continuous basis during dryer operations. Filters are changed weekly, then composited for a quarterly analysis of Unat, Radium-226, Thorium-230 and Lead-210. Environmental air sample analytical data for the report period are given in Tables 7a and 7b. The effluent limits given in Appendix B, Table 2, of 10 CFR Part 20, were not exceeded and no trends or abnormal results were noted.

4.0 CORRECTIVE ACTIONS/RECOMMENDATIONS

4.1 Wellfield Corrective Actions

Corrective actions for wellfields at the Irigaray and Christensen Ranch sites consists of selected over-recovery or pumping, to draw back pockets of lixiviant near monitor wells which show increasing trends or are on excursion status. Over-recovery is accomplished by reducing injection flow and/or increasing production flow. Specific corrective actions taken during the report period were given in the monthly and quarterly excursion status reports submitted to the WDEQ and NRC, respectively.

5.0 OTHER INFORMATION REQUIRED BY NRC LICENSE SUA-1341

5.1 Bioassay Results

No employee urinalysis results exceeded the 15 $\mu\text{g/l}$ action level for uranium, specified in Regulatory Guide 8.22.

6.0 RESTORATION PROGRESS: August 1998 - December 1998

Irigaray

Groundwater restoration activities at the Irigaray site continued during this period in Production Units 4 through 9. Reverse osmosis operations in Unit 5 were completed in mid-August. Both of Units 4 and 5 entered into the recirculation phase in the second part of August. The recirculation phase of Units 4 and 5 was concluded at the end of September. Units 4 and 5 entered the Nine-Month Stabilization Monitoring period.

The reverse osmosis treatment phase of Production Unit 9 commenced in Mid-November. By the end of December, approximately one pore volume of solution had been treated from Unit 9. The restoration process equipment was moved into the Central Processing Plant during the months of September and October. All of the equipment was reconditioned.

Production Unit 8 is being prepared for reverse osmosis treatment. Plans are to start Unit 8 in the reverse osmosis phase during the first quarter of 1999.

Christensen

Groundwater sweep activities in Mine Units 2, 3 and 4 continued until late July. Groundwater was primarily withdrawn from areas within the wellfields that exhibited higher conductivity and uranium concentrations. All groundwater sweep activities were terminated at the end of July when COGEMA ceased all surface discharge activities at the Christensen Mine. COGEMA's NPDES permit for the discharge of restoration waters was reissued on July 31, 1998 with a new selenium limit that is unachievable using the conventional water treatment methods employed at the site.

Plans are to resume restoration activities in Mine Unit 3 as soon as more wastewater disposal capacity is available. COGEMA filed an application with DEQ, Water Quality Division in September 1997, to permit a new injection interval within the existing disposal well in an effort to resolve the disposal capacity shortfall. COGEMA received permission to re-complete the disposal well and did so on November 1998. The operating permits for the re-completed well were not issued in 1998.

TABLES

Table 1A

COGEMA Mining, Inc.
Semi-Annual Report, July - December, 1998
NRC License SUA-1341

Date Collected: 23-Jul-98
Sample Location: IR-9, Downstream Willow Creek, Irigaray
Sample Type: Surface Water
Analytical Laboratory: Energy Lab, Casper, WY.

Radionuclide	Concentration (uCi/ml)	Error Estimate (uCi/ml)	LLD (uCi/ml)	Regulatory Guide 4.14 LLD (uCi/ml)	10 CFR 20 Appendix B Table 2 Limits (uCi/ml)	Effluent Limit Exceedance
U (Total)	3.8 E-09	N/A (a)	2.0 E-10	2.0 E-10	3.0 E-07	No
Th-230 (Total)	<2.0 E-10		2.0 E-10	2.0 E-10	1.0 E-07	No
Ra-226 (Total)	4.0 E-10	2.0 E-10	2.0 E-10	2.0 E-10	6.0 E-08	No
Pb-210 (Total)	<1.0 E-09		1.0 E-09	1.0 E-09	1.0 E-08	No
Po-210 (Total)	2.4 E-09	1.0 E-10	1.0 E-09	1.0 E-09	4.0 E-08	No

Chemical Parameters	Concentration (mg/l)	Detection Limit (mg/l)	Regulatory Guide 4.14 LLD (uCi/ml)	10 CFR 20 Appendix B Table 2 Limits (uCi/ml)	Effluent Limit Exceedance
Total Alkalinity	263	1	N/A	N/A	N/A
Cl	122	1	N/A	N/A	N/A
TDS	4760	2	N/A	N/A	N/A
Specific Conductivity	5480	1	N/A	N/A	N/A
SO ₄	2600	1	N/A	N/A	N/A
pH	8.10	0.01	N/A	N/A	N/A
As	0.002	0.001	N/A	N/A	N/A
Se	0.005	0.001	N/A	N/A	N/A

Estimated Flow Rate: Low

Low = <5 cfs
Medium = 5 - 50 cfs
High = > 50 cfs

N/A = Not Applicable

(a) Uranium is a chemical rather than radiometric analysis. With no counting times there is no error estimate.

Table 1A (contd)

COGEMA Mining, Inc.
Semi-Annual Report, July - December, 1998
NRC License SUA-1341

Date Collected: 23-Jul-98
Sample Location: IR-14, Upstream Willow Creek, Irigaray
Sample Type: Surface Water
Analytical Laboratory: Energy Lab, Casper, WY.

Radionuclide	Concentration (uCi/ml)	Error Estimate (uCi/ml)	LLD (uCi/ml)	Regulatory Guide 4.14 LLD (uCi/ml)	10 CFR 20 Appendix B Table 2 Limits (uCi/ml)	Effluent Limit Exceedance
U (Total)	1.7 E-08	N/A (a)	2.0 E-10	2.0 E-10	3.0 E-07	No
Th-230 (Total)	<2.0 E-10		2.0 E-10	2.0 E-10	1.0 E-07	No
Ra-226 (Total)	9.0 E-10	2.0 E-10	2.0 E-10	2.0 E-10	6.0 E-08	No
Pb-210 (Total)	<1.0E-09		1.0 E-09	1.0 E-09	1.0 E-08	No
Po-210 (Total)	<1.0E-09		1.0 E-09	1.0 E-09	4.0 E-08	No

Chemical Parameters	Concentration (mg/l)	Detection Limit (mg/l)	Regulatory Guide 4.14 LLD (uCi/ml)	10 CFR 20 Appendix B Table 2 Limits (uCi/ml)	Effluent Limit Exceedance
Total Alkalinity	227	1	N/A	N/A	N/A
Cl	42.9	1	N/A	N/A	N/A
TDS	4040	2	N/A	N/A	N/A
Specific Conductivity	4490	1	N/A	N/A	N/A
SO4	2300	1	N/A	N/A	N/A
pH	7.88	0.01	N/A	N/A	N/A
As	0.003	0.001	N/A	N/A	N/A
Se	0.003	0.001	N/A	N/A	N/A

Estimated Flow Rate: Low

Low = <5 cfs
Medium = 5 - 50 cfs
High = > 50 cfs

N/A = Not Applicable

(a) Uranium is a chemical rather than radiometric analysis. With no counting times there is no error estimate.

Table 1A (contd)

COGEMA Mining, Inc.
Semi-Annual Report, July - December, 1998
NRC License SUA-1341

Date Collected: 23-Jul-98
Sample Location: IR-17, Mine Site, Irigaray
Sample Type: Surface Water
Analytical Laboratory: Energy Lab, Casper, WY.

Radionuclide	Concentration (uCi/ml)	Error Estimate (uCi/ml)	LLD (uCi/ml)	Regulatory Guide 4.14 LLD (uCi/ml)	10 CFR 20 Appendix B Table 2 Limits (uCi/ml)	Effluent Limit Exceedance
U (Total)	1.5 E-08	N/A (a)	2.0 E-10	2.0 E-10	3.0 E-07	No
Th-230 (Total)	<2.0 E-10		2.0 E-10	2.0 E-10	1.0 E-07	No
Ra-226 (Total)	<2.0 E-10		2.0 E-10	2.0 E-10	6.0 E-08	No
Pb-210 (Total)	<1.0 E-09		1.0 E-09	1.0 E-09	1.0 E-08	No
Po-210 (Total)	3.1 E-09	2.0 E-10	1.0 E-09	1.0 E-09	4.0 E-08	No

Chemical Parameters	Concentration (mg/l)	Detection Limit (mg/l)	Regulatory Guide 4.14 LLD (uCi/ml)	10 CFR 20 Appendix B Table 2 Limits (uCi/ml)	Effluent Limit Exceedance
Total Alkalinity	274	1	N/A	N/A	N/A
Cl	33.7	1	N/A	N/A	N/A
TDS	3130	2	N/A	N/A	N/A
Specific Conductivity	3580	1	N/A	N/A	N/A
SO4	1800	1	N/A	N/A	N/A
pH	7.89	0.01	N/A	N/A	N/A
As	0.002	0.001	N/A	N/A	N/A
Se	0.003	0.001	N/A	N/A	N/A

Estimated Flow Rate: Low

Low = <5 cfs
Medium = 5 - 50 cfs
High = > 50 cfs

N/A = Not Applicable

(a) Uranium is a chemical rather than radiometric analysis. With no counting times there is no error estimate.

Table 1A (contd)

COGEMA Mining, Inc.
 Semi-Annual Report, July - December, 1998
 NRC License SUA-1341

Date Collected: 23-Jul-98
 Sample Location: CR GS-01, Downstream Willow Creek, Christensen
 Sample Type: Surface Water
 Analytical Laboratory: Energy Lab, Casper, WY.

Radionuclide	Concentration (uCi/ml)	Error Estimate (uCi/ml)	LLD (uCi/ml)	Regulatory Guide 4.14 LLD (uCi/ml)	10 CFR 20 Appendix B Table 2 Limits (uCi/ml)	Effluent Limit Exceedance
U (Total)	4.9 E-08	N/A (a)	2.0 E-10	2.0 E-10	3.0 E-07	No
Th-230 (Total)	<2.0 E-10		2.0 E-10	2.0 E-10	1.0 E-07	No
Ra-226 (Total)	<2.0 E-10		2.0 E-10	2.0 E-10	6.0 E-08	No
Pb-210 (Total)	<1.0 E-09		1.0 E-09	1.0 E-09	1.0 E-08	No
Po-210 (Total)	<1.0 E-09		1.0 E-09	1.0 E-09	4.0 E-08	No

Chemical Parameters	Concentration (mg/l)	Detection Limit (mg/l)	Regulatory Guide 4.14 LLD (uCi/ml)	10 CFR 20 Appendix B Table 2 Limits (uCi/ml)	Effluent Limit Exceedance
Total Alkalinity	410	1	N/A	N/A	N/A
Cl	110	1	N/A	N/A	N/A
TDS	4160	2	N/A	N/A	N/A
Specific Conductivity	5120	1	N/A	N/A	N/A
SO4	2400	1	N/A	N/A	N/A
pH	8.08	0.01	N/A	N/A	N/A
As	0.003	0.001	N/A	N/A	N/A
Se	0.023	0.001	N/A	N/A	N/A

Estimated Flow Rate: Low

Low = <5 cfs
 Medium = 5 - 50 cfs
 High = > 50 cfs

N/A = Not Applicable

(a) Uranium is a chemical rather than radiometric analysis. With no counting times there is no error estimate.

Table 1A (contd)

COGEMA Mining, Inc.
Semi-Annual Report, July - December, 1998
NRC License SUA-1341

Date Collected: 23-Jul-98
Sample Location: CR GS-03, Mine Site, Christensen
Sample Type: Surface Water
Analytical Laboratory: Energy Lab, Casper, WY.

Radionuclide	Concentration (uCi/ml)	Error Estimate (uCi/ml)	LLD (uCi/ml)	Regulatory Guide 4.14 LLD (uCi/ml)	10 CFR 20 Appendix B Table 2 Limits (uCi/ml)	Effluent Limit Exceedance
U (Total)	4.9 E-07	N/A (a)	2.0 E-10	2.0 E-10	3.0 E-07	Yes
Th-230 (Total)	<2.0 E-10		2.0 E-10	2.0 E-10	1.0 E-07	No
Ra-226 (Total)	<2.0 E-10		2.0 E-10	2.0 E-10	6.0 E-08	No
Pb-210 (Total)	1.3 E-08	1.3 E-09	1.0 E-09	1.0 E-09	1.0 E-08	Yes
Po-210 (Total)	<2.3 E-09		1.0 E-09	1.0 E-09	4.0 E-08	No

Chemical Parameters	Concentration (mg/l)	Detection Limit (mg/l)	Regulatory Guide 4.14 LLD (uCi/ml)	10 CFR 20 Appendix B Table 2 Limits (uCi/ml)	Effluent Limit Exceedance
Total Alkalinity	914	1	N/A	N/A	N/A
Cl	171	1	N/A	N/A	N/A
TDS	2580	2	N/A	N/A	N/A
Specific Conductivity	3830	1	N/A	N/A	N/A
SO4	874	1	N/A	N/A	N/A
pH	8.28	0.01	N/A	N/A	N/A
As	0.020	0.001	N/A	N/A	N/A
Se	1.070	0.001	N/A	N/A	N/A

Estimated Flow Rate: Low

Low = <5 cfs
Medium = 5 - 50 cfs
High = > 50 cfs

N/A = Not Applicable

(a) Uranium is a chemical rather than radiometric analysis. With no counting times there is no error estimate.

Table 1A (contd)

COGEMA Mining, Inc.
Semi-Annual Report, July - December, 1998
NRC License SUA-1341

Date Collected: 23-Jul-98
Sample Location: CR CG-05, Upstream Willow Creek, Christensen
Sample Type: Surface Water
Analytical Laboratory: Energy Lab, Casper, WY.

Radionuclide	Concentration (uCi/ml)	Error Estimate (uCi/ml)	LLD (uCi/ml)	Regulatory Guide 4.14 LLD (uCi/ml)	10 CFR 20 Appendix B Table 2 Limits (uCi/ml)	Effluent Limit Exceedance
U (Total)	NOT SAMPLED/NO WATER	N/A (a)	2.0 E-10	2.0 E-10	3.0 E-07	No
Th-230 (Total)	NOT SAMPLED/NO WATER		2.0 E-10	2.0 E-10	1.0 E-07	No
Ra-226 (Total)	NOT SAMPLED/NO WATER		2.0 E-10	2.0 E-10	6.0 E-08	No
Pb-210 (Total)	NOT SAMPLED/NO WATER		1.0 E-09	1.0 E-09	1.0 E-08	No
Po-210 (Total)	NOT SAMPLED/NO WATER		1.0 E-09	1.0 E-09	4.0 E-08	No

Chemical Parameters	Concentration (mg/l)	Detection Limit (mg/l)	Regulatory Guide 4.14 LLD (uCi/ml)	10 CFR 20 Appendix B Table 2 Limits (uCi/ml)	Effluent Limit Exceedance
Total Alkalinity	NOT SAMPLED/NO WATER	1	N/A	N/A	N/A
Cl	NOT SAMPLED/NO WATER	1	N/A	N/A	N/A
TDS	NOT SAMPLED/NO WATER	2	N/A	N/A	N/A
Specific Conductivity	NOT SAMPLED/NO WATER	1	N/A	N/A	N/A
SO4	NOT SAMPLED/NO WATER	1	N/A	N/A	N/A
pH	NOT SAMPLED/NO WATER	0.01	N/A	N/A	N/A
As	NOT SAMPLED/NO WATER	0.001	N/A	N/A	N/A
Se	NOT SAMPLED/NO WATER	0.001	N/A	N/A	N/A

Estimated Flow Rate: None

Low = <5 cfs
Medium = 5 - 50 cfs
High = > 50 cfs

N/A = Not Applicable

(a) Uranium is a chemical rather than radiometric analysis. With no counting times there is no error estimate.

Table 1B

COGEMA Mining, Inc.
Semi-Annual Report, July - December, 1998
NRC License SUA-1341

Date Collected: 19-Nov-98
Sample Location: IR-9, Downstream Willow Creek, Irigaray
Sample Type: Surface Water
Analytical Laboratory: Energy Lab, Casper, WY.

Radionuclide	Concentration (uCi/ml)	Error Estimate (uCi/ml)	LLD (uCi/ml)	Regulatory Guide 4.14 LLD (uCi/ml)	10 CFR 20 Appendix B Table 2 Limits (uCi/ml)	Effluent Limit Exceedance
U (Total)	3.3 E-08	N/A (a)	2.0 E-10	2.0 E-10	3.0 E-07	No
Th-230 (Total)	<2.0 E-10		2.0 E-10	2.0 E-10	1.0 E-07	No
Ra-226 (Total)	<2.0 E-10		2.0 E-10	2.0 E-10	6.0 E-08	No
Pb-210 (Total)	<1.0 E-09		1.0 E-09	1.0 E-09	1.0 E-08	No
Po-210 (Total)	<1.0 E-09		1.0 E-09	1.0 E-09	4.0 E-08	No

Chemical Parameters	Concentration (mg/l)	Detection Limit (mg/l)	Regulatory Guide 4.14 LLD (uCi/ml)	10 CFR 20 Appendix B Table 2 Limits (uCi/ml)	Effluent Limit Exceedance
Total Alkalinity	294	1	N/A	N/A	N/A
Cl	137	1	N/A	N/A	N/A
TDS	4140	2	N/A	N/A	N/A
Specific Conductivity	4750	1	N/A	N/A	N/A
SO4	2460	1	N/A	N/A	N/A
pH	8.05	0.01	N/A	N/A	N/A
As	<0.001	0.001	N/A	N/A	N/A
Se	0.003	0.001	N/A	N/A	N/A

Estimated Flow Rate: Medium

Low = <5 cfs
Medium = 5 - 50 cfs
High = > 50 cfs

N/A = Not Applicable

(a) Uranium is a chemical rather than radiometric analysis. With no counting times there is no error estimate.

Table 1B (contd)

COGEMA Mining, Inc.
Semi-Annual Report, July - December, 1999
NRC License SUA-1341

Date Collected: 19-Nov-98
Sample Location: IR-14, Upstream Willow Creek, Irigaray
Sample Type: Surface Water
Analytical Laboratory: Energy Lab, Casper, WY.

Radionuclide	Concentration (uCi/ml)	Error Estimate (uCi/ml)	LLD (uCi/ml)	Regulatory Guide 4.14 LLD (uCi/ml)	10 CFR 20 Appendix B Table 2 Limits (uCi/ml)	Effluent Limit Exceedance
U (Total)	3.0 E-08	N/A (a)	2.0 E-10	2.0 E-10	3.0 E-07	No
Th-230 (Total)	<2.0 E-10		2.0 E-10	2.0 E-10	1.0 E-07	No
Ra-226 (Total)	<2.0 E-10		2.0 E-10	2.0 E-10	6.0 E-08	No
Pb-210 (Total)	<1.0 E-10		1.0 E-09	1.0 E-09	1.0 E-08	No
Po-210 (Total)	<1.0 E-10		1.0 E-09	1.0 E-09	4.0 E-08	No

Chemical Parameters	Concentration (mg/l)	Detection Limit (mg/l)	Regulatory Guide 4.14 LLD (uCi/ml)	10 CFR 20 Appendix B Table 2 Limits (uCi/ml)	Effluent Limit Exceedance
Total Alkalinity	304	1	N/A	N/A	N/A
Cl	50.9	1	N/A	N/A	N/A
TDS	3600	2	N/A	N/A	N/A
Specific Conductivity	4130	1	N/A	N/A	N/A
SO4	2180	1	N/A	N/A	N/A
pH	8.03	0.01	N/A	N/A	N/A
As	<0.001	0.001	N/A	N/A	N/A
Se	0.002	0.001	N/A	N/A	N/A

Estimated Flow Rate: Low

Low = <5 cfs
Medium = 5 - 50 cfs
High = > 50 cfs

N/A = Not Applicable

(a) Uranium is a chemical rather than radiometric analysis. With no counting times there is no error estimate.

Table 1B (contd)

COGEMA Mining, Inc.
 Semi-Annual Report, July - December, 1998
 NRC License SUA-1341

Date Collected: 19-Nov-98
 Sample Location: IR-17, Mine Site, Irigaray
 Sample Type: Surface Water
 Analytical Laboratory: Energy Lab, Casper, WY.

Radionuclide	Concentration (uCi/ml)	Error Estimate (uCi/ml)	LLD (uCi/ml)	Regulatory Guide 4.14 LLD (uCi/ml)	10 CFR 20 Appendix B Table 2 Limits (uCi/ml)	Effluent Limit Exceedance
U (Total)	2.3 E-08	N/A (a)	2.0 E-10	2.0 E-10	3.0 E-07	No
Th-230 (Total)	<2.0 E-10		2.0 E-10	2.0 E-10	1.0 E-07	No
Ra-226 (Total)	<2.0 E-10		2.0 E-10	2.0 E-10	6.0 E-08	No
Pb-210 (Total)	<1.0 E-10		1.0 E-09	1.0 E-09	1.0 E-08	No
Po-210 (Total)	<1.0 E-10		1.0 E-09	1.0 E-09	4.0 E-08	No

Chemical Parameters	Concentration (mg/l)	Detection Limit (mg/l)	Regulatory Guide 4.14 LLD (uCi/ml)	10 CFR 20 Appendix B Table 2 Limits (uCi/ml)	Effluent Limit Exceedance
Total Alkalinity	246	1	N/A	N/A	N/A
Cl	41.5	1	N/A	N/A	N/A
TDS	3410	2	N/A	N/A	N/A
Specific Conductivity	3900	1	N/A	N/A	N/A
SO4	2080	1	N/A	N/A	N/A
pH	8.04	0.01	N/A	N/A	N/A
As	<0.001	0.001	N/A	N/A	N/A
Se	0.002	0.001	N/A	N/A	N/A

Estimated Flow Rate: Low

Low = <5 cfs
 Medium = 5 - 50 cfs
 High = > 50 cfs

N/A = Not Applicable

(a) Uranium is a chemical rather than radiometric analysis. With no counting times there is no error estimate.

Table 1B (contd)

COGEMA Mining, Inc.
 Semi-Annual Report, July - December, 1998
 NRC License SUA-1341

Date Collected: 19-Nov-98
 Sample Location: CR GS-01, Downstream Willow Creek, Christensen
 Sample Type: Surface Water
 Analytical Laboratory: Energy Lab, Casper, WY.

Radionuclide	Concentration (uCi/ml)	Error Estimate (uCi/ml)	LLD (uCi/ml)	Regulatory Guide 4.14 LLD (uCi/ml)	10 CFR 20 Appendix B Table 2 Limits (uCi/ml)	Effluent Limit Exceedance
U (Total)	1.0E-07	N/A (a)	2.0 E-10	2.0 E-10	3.0 E-07	No
Th-230 (Total)	<2.0 E-10		2.0 E-10	2.0 E-10	1.0 E-07	No
Ra-226 (Total)	<2.0 E-10		2.0 E-10	2.0 E-10	6.0 E-08	No
Pb-210 (Total)	<1.0 E-10		1.0 E-09	1.0 E-09	1.0 E-08	No
Po-210 (Total)	3.4 E-09	2.0 E-10	1.0 E-09	1.0 E-09	4.0 E-08	No

Chemical Parameters	Concentration (mg/l)	Detection Limit (mg/l)	Regulatory Guide 4.14 LLD (uCi/ml)	10 CFR 20 Appendix B Table 2 Limits (uCi/ml)	Effluent Limit Exceedance
Total Alkalinity	472	1	N/A	N/A	N/A
Cl	90.5	1	N/A	N/A	N/A
TDS	4520	2	N/A	N/A	N/A
Specific Conductivity	5230	1	N/A	N/A	N/A
SO4	2740	1	N/A	N/A	N/A
pH	8.09	0.01	N/A	N/A	N/A
As	0.001	0.001	N/A	N/A	N/A
Se	0.008	0.001	N/A	N/A	N/A

Estimated Flow Rate: Low

Low = <5 cfs
 Medium = 5 - 50 cfs
 High = > 50 cfs

N/A = Not Applicable

(a) Uranium is a chemical rather than radiometric analysis. With no counting times there is no error estimate.

Table 1B (contd)

COGEMA Mining, Inc.
Semi-Annual Report, July - December, 1998
NRC License SUA-1341

Date Collected: 19-Nov-98
Sample Location: CR GS03, Mine Site, Christensen
Sample Type: Surface Water
Analytical Laboratory: Energy Lab, Casper, WY.

Radionuclide	Concentration (uCi/ml)	Error Estimate (uCi/ml)	LLD (uCi/ml)	Regulatory Guide 4.14 LLD (uCi/ml)	10 CFR 20 Appendix B Table 2 Limits (uCi/ml)	Effluent Limit Exceedance
U (Total)	9.6 E-08	N/A (a)	2.0 E-10	2.0 E-10	3.0 E-07	No
Th-230 (Total)	<2.0 E-10		2.0 E-10	2.0 E-10	1.0 E-07	No
Ra-226 (Total)	<2.0 E-10		2.0 E-10	2.0 E-10	6.0 E-08	No
Pb-210 (Total)	<1.0 E-10		1.0 E-09	1.0 E-09	1.0 E-08	No
Po-210 (Total)	<1.0 E-10		1.0 E-09	1.0 E-09	4.0 E-08	No

Chemical Parameters	Concentration (mg/l)	Detection Limit (mg/l)	Regulatory Guide 4.14 LLD (uCi/ml)	10 CFR 20 Appendix B Table 2 Limits (uCi/ml)	Effluent Limit Exceedance
Total Alkalinity	456	1	N/A	N/A	N/A
Cl	60.3	1	N/A	N/A	N/A
TDS	4360	2	N/A	N/A	N/A
Specific Conductivity	5050	1	N/A	N/A	N/A
SO4	2640	1	N/A	N/A	N/A
pH	8.09	0.01	N/A	N/A	N/A
As	0.001	0.001	N/A	N/A	N/A
Se	0.023	0.001	N/A	N/A	N/A

Estimated Flow Rate: Low

Low = <5 cfs
Medium = 5 - 50 cfs
High = > 50 cfs

N/A = Not Applicable

(a) Uranium is a chemical rather than radiometric analysis. With no counting times there is no error estimate.

Table 1B (contd)

COGEMA Mining, Inc.
 Semi-Annual Report, July - December, 1998
 NRC License SUA-1341

Date Collected: 19-Nov-98
 Sample Location: CR CG-05, Upstream Willow Creek, Christensen
 Sample Type: Surface Water
 Analytical Laboratory: Energy Lab, Casper, WY.

Radionuclide	Concentration (uCi/ml)	Error Estimate (uCi/ml)	LLD (uCi/ml)	Regulatory Guide 4.14 LLD (uCi/ml)	10 CFR 20 Appendix B Table 2 Limits (uCi/ml)	Effluent Limit Exceedance
U (Total)	2.3 E-08	N/A (a)	2.0 E-10	2.0 E-10	3.0 E-07	No
Th-230 (Total)	<2.0 E-10		2.0 E-10	2.0 E-10	1.0 E-07	No
Ra-226 (Total)	<2.0 E-10		2.0 E-10	2.0 E-10	6.0 E-08	No
Pb-210 (Total)	<1.0 E-10		1.0 E-09	1.0 E-09	1.0 E-08	No
Po-210 (Total)	<1.0 E-10		1.0 E-09	1.0 E-09	4.0 E-08	No

Chemical Parameters	Concentration (mg/l)	Detection Limit (mg/l)	Regulatory Guide 4.14 LLD (uCi/ml)	10 CFR 20 Appendix B Table 2 Limits (uCi/ml)	Effluent Limit Exceedance
Total Alkalinity	310	1	N/A	N/A	N/A
Cl	14.7	1	N/A	N/A	N/A
TDS	2250	2	N/A	N/A	N/A
Specific Conductivity	2770	1	N/A	N/A	N/A
SO4	1320	1	N/A	N/A	N/A
pH	8.11	0.01	N/A	N/A	N/A
As	0.001	0.001	N/A	N/A	N/A
Se	0.002	0.001	N/A	N/A	N/A

Estimated Flow Rate: Low

Low = <5 cfs
 Medium = 5 - 50 cfs
 High = > 50 cfs

N/A = Not Applicable

(a) Uranium is a chemical rather than radiometric analysis. With no counting times there is no error estimate.

TABLE 2

COGEMA Mining, Inc.
DISCHARGE POINT 001
Irigaray

PARAMETER	7-98	8-98	9-98	10-98	11-98	12-98	PERMIT REQUIREMENT	
							AVG.	MAX.
Flow (MGD) Average	0.048	N.D	0.035	0.021	0.026	0.007	N/A	N/A
Total Uranium (u) (mg/l)	0.0006	N.D	0.292	0.152	0.0114	0.0136	2	4
Dissolved Radium-226 (pCi/l) Average	6.18	N.D	4.1	5.7	3.5	1.6	3	10
Total Suspended Solids (mg/l) (weekly avg.)	<1.0	N.D	<1.0	1.05	1.03	2.1	20	30
Total Dissolved Solids (mg/l)	576	N.D	690	743	1110	1450	N/A	5000
QUARTERLY ANALYSIS	July 1998			October 1998				
Uranium Total (uCi/ml)	4.0 E-10	N.D		1.0 E-07				3E-07*
Radium 226 Total (uCi/ml)	2.4 E-09			5.8 E-09				6E-08*
Thorium-230 Total (uCi/ml)	<2.0 E-10			1.7 E-09				1E-07*
Pb-210 Total (uCi/ml)	<1.0E-09			6.9 E-09				1E-08*
Po-210 Total (uCi/ml)	<1.0E-09			<1.0 E-9				4E-08*
Zinc Total (mg/l)	<0.01			<0.01			0.5	1.0
pH (units)	6.76			8.08			6.00	9.00
Selenium (mg/l)	0.009			0.001			N/A	0.05

N.D. - No Discharge

N/A - Not Available

* 10 CFR 20, Appendix B, Table II, Column II Effluent Limitations

Table 3

QUARTERLY WASTE POND ANALYSIS
THIRD QUARTER 1998, 07-01-98
SEMI-ANNUAL REPORT, 1998

IRIGARAY - mg/l

	IR-1	IR-2A	IR-2B	IR-3	IR-A	IR-B
Cl	26,000	23,000	140,000	5,100	67,000	109,000
NH ₄ as N	3,930	1,190	551	0.69	52.1	167
NO ₃ as N	16.0	0.74	0.61	<0.10	0.83	2.26
pH	6.54	7.21	7.51	9.52	8.03	6.08
SO ₄	26,000	23,000	21,500	3,000	8,500	12,000
Conductivity	228,000	223,000	220,000	23,000	151,000	202,000
U	0.409	27.9	59.0	87.4	92.9	32.2
TDS	214,000	223,000	218,000	17,000	117,000	181,000
Zinc	0.89	0.20	0.12	<0.01	0.03	0.26
Ra 226 (pCi/l)	70.2+/-2.7	190+/-4.5	197+/-4.8	2.4+/-0.3	78.3+/-2.6	1130+/-9.9

IRIGARAY - mg/l

	IR-C	IR-D	IR-E	IR-RA	IR-RB
Cl	95,000	103,000	75,000	1,700	5,400
NH ₄ as N	479	151	9.30	15.5	8.17
NO ₃ as N	19.1	2.40	2.36	0.72	<0.10
pH	6.32	6.12	6.29	8.29	8.94
SO ₄	6,400	11,000	3,800	1,700	4,200
Conductivity	189,000	198,000	164,000	11,500	28,000
U	7.59	6.12	53.8	49.7	159
TDS	148,000	198,000	111,000	7,500	18,200
Zinc	0.29	0.26	0.27	<0.01	0.01
Ra 226 (pCi/l)	717+/-7.9	1170+/-10.0	2240+/-14.2	45.7+/- 2.1	7.8+/-0.5

CHRISTENSEN - mg/l

	CR-1	CR-2	CR-3	CR-4*	CR-P1
Cl	652	2,700	244	208	6.1
NH ₄ as N	0.12	0.13	0.34	<0.05	0.06
NO ₃ as N	<0.10	<0.10	0.16	<0.10	<0.10
pH	8.32	9.20	7.80	8.55	8.50
SO ₄	576	3,700	826	858	25.3
Conductivity	4,360	17,600	4,060	3,810	1,470
U	8.33	32.3	0.0843	0.0838	0.0188
TDS	2,720	11,500	2,680	2440	893
Zinc	<0.01	<0.01	<0.01	<0.01	<0.01
Ra 226 (pCi/l)	159+/-3.8	15.8+/-1.2	<0.2+/-	<0.2+/-	<0.2+/-

Table 3 (Cont.)

QUARTERLY WASTE POND ANALYSIS
FOURTH QUARTER 1998, 10-22-98
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IRIGARAY - mg/l

	IR-1	IR-2A	IR-2B	IR-3	IR-A	IR-B
Cl	42,400	60,500	75,700	59,100	12,200	13,500
NH ₄ as N	123	237	151	125	34.9	340
NO ₃ as N	1.50	0.27	0.23	0.24	0.24	1.95
pH	8.29	7.99	7.85	7.40	8.11	6.56
SO ₄	10,700	11,300	10,500	6,900	87,100	85,000
Conductivity	110,000	154,000	138,000	102,000	180,000	199,000
U	61.0	46.0	14.3	6.45	58.0	21.0
TDS	82,800	119,000	103,00	70,300	141,000	155,000
Zinc	0.05	0.11	0.11	<0.01	0.11	0.66
Ra 226 (pCi/l)	11.4+/-1.3	41.7+/-4.2	56.5+/-4.9	51.9+/-4.8	229.0+/-9.8	671+/-16.8

IRIGARAY - mg/l

	IR-C	IR-D	IR-E	IR-RA	IR-RB
Cl	97,200	98,700	85,700	3,720	7,120
NH ₄ as N	575	297	8.78	3.77	1.49
NO ₃ as N	31.6	4.23	1.50	0.19	<0.10
pH	6.37	6.86	6.55	9.04	9.02
SO ₄	97,200	66,700	62,000	2,820	4,480
Conductivity	221,000	170,000	155,000	18,600	28,600
U	5.70	10.5	24.0	65.0	121.0
TDS	191,000	121,000	114,000	12,700	20,600
Zinc	0.72	0.39	0.54	<0.01	<0.01
Ra 226 (pCi/l)	631+/-16.2	663+/-16.6	2170+/-29.9	<0.2+/-	8.0+/-1.2

CHRISTENSEN - mg/l

	CR-1	CR-2	CR-3	CR-4	CR-P1
Cl	597	2,320	130	102	9.0
NH ₄ as N	0.08	0.18	<0.05	<0.05	<0.05
NO ₃ as N	0.15	0.18	<0.10	0.15	<0.10
pH	8.73	9.39	9.01	8.70	8.49
SO ₄	711	3,560	522	544	32.0
Conductivity	4,400	17,100	2,620	2,550	1,560
U	4.90	17.6	0.575	0.415	0.0135
TDS	2,760	12,400	1,670	1,640	953
Zinc	<0.01	<0.01	<0.01	<0.01	<0.02
Ra 226 (pCi/l)	164+/- 8.1	4.4+/- 1.8	<0.2+/-	3.1+/-0.5	2.3+/- 0.8

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Date Collected: 23-Jul-98
Sample Location: Christensen Ranch House #3
Sample Type: Regional Ground Water
Analytical Laboratory: Energy Lab, Casper, WY.

Radionuclide	Concentration (uCi/ml)	Error Estimate (uCi/ml)	LLD (uCi/ml)
U (Total)	1.7 E-08	N/A (a)	2.0 E-10
Th-230 (Total)	<2.0 E-10		2.0 E-10
Ra-226 (Total)	1.7 E-09	2.0 E-08	2.0 E-10
Pb-210 (Total)	<1.0 E-09		1.0 E-09
Po-210 (Total)	2.4 E-09	1.0 E-08	1.0 E-09

Date Collected: 23-Jul-98
Sample Location: Christensen Ellendale #4
Sample Type: Regional Ground Water
Analytical Laboratory: Energy Lab, Casper, WY.

Radionuclide	Concentration (uCi/ml)	Error Estimate (uCi/ml)	LLD (uCi/ml)
U (Total)	5.0 E-10	N/A (a)	2.0 E-10
Th-230 (Total)	<2.0 E-10		2.0 E-10
Ra-226 (Total)	<2.0 E-10		2.0 E-10
Pb-210 (Total)	6.2 E-09	1.3 E-09	1.0 E-09
Po-210 (Total)	6.7 E-09	3.0 E-08	1.0 E-09

Date Collected: 23-Jul-98
Sample Location: Christensen Willow Corral #32
Sample Type: Regional Ground Water
Analytical Laboratory: Energy Lab, Casper, WY.

Radionuclide	Concentration (uCi/ml)	Error Estimate (uCi/ml)	LLD (uCi/ml)
U (Total)	<2.0 E-10	N/A (a)	2.0 E-10
Th-230 (Total)	<2.0 E-10		2.0 E-10
Ra-226 (Total)	<2.0 E-10		2.0 E-10
Pb-210 (Total)	<1.0 E-09		1.0 E-09
Po-210 (Total)	<1.0 E-09		1.0 E-09

Date Collected: 23-Jul-98
Sample Location: Christensen First Artesian Well #1
Sample Type: Regional Ground Water
Analytical Laboratory: Energy Lab, Casper, WY.

Radionuclide	Concentration (uCi/ml)	Error Estimate (uCi/ml)	LLD (uCi/ml)
U (Total)	<2.0 E-10	N/A (a)	2.0 E-10
Th-230 (Total)	<2.0 E-10		2.0 E-10
Ra-226 (Total)	<2.0 E-10		2.0 E-10
Pb-210 (Total)	<1.0 E-09		1.0 E-09
Po-210 (Total)	<1.0 E-09		1.0 E-09

N/A = Not Applicable
(a) Uranium is a chemical rather than radiometric analysis. With no counting times there is no error estimate.

Date Collected: 23-Jul-98
Sample Location: Christensen Middle Artesian
Sample Type: Regional Ground Water
Analytical Laboratory: Energy Lab, Casper, WY.

Radionuclide	Concentration (uCi/ml)	Error Estimate (uCi/ml)	LLD (uCi/ml)
U (Total)	1.0 E-09	N/A (a)	2.0 E-10
Th-230 (Total)	<2.0 E-10		2.0 E-10
Ra-226 (Total)	<2.0 E-10		2.0 E-10
Pb-210 (Total)	<1.0 E-09		1.0 E-09
Po-210 (Total)	<1.0 E-09		1.0 E-09

Date Collected: 23-Jul-98
Sample Location: Christensen Del Gulch Lower #13
Sample Type: Regional Ground Water
Analytical Laboratory: Energy Lab, Casper, WY.

Radionuclide	Concentration (uCi/ml)	Error Estimate (uCi/ml)	LLD (uCi/ml)
U (Total)	2.2 E-09	N/A (a)	2.0 E-10
Th-230 (Total)	<2.0 E-10		2.0 E-10
Ra-226 (Total)	1.2 E-09	2.0 E-08	2.0 E-10
Pb-210 (Total)	<1.0 E-09		1.0 E-09
Po-210 (Total)	1.1 E-08	4.0 E-08	1.0 E-09

Date Collected: 23-Jul-98
Sample Location: North Prong #21
Sample Type: Regional Ground Water
Analytical Laboratory: Energy Lab, Casper, WY.

Radionuclide	Concentration (uCi/ml)	Error Estimate (uCi/ml)	LLD (uCi/ml)
U (Total)	<2.0 E-10	N/A (a)	2.0 E-10
Th-230 (Total)	<2.0 E-10		2.0 E-10
Ra-226 (Total)	<2.0 E-10		2.0 E-10
Pb-210 (Total)	<1.0 E-09		1.0 E-09
Po-210 (Total)	2.2 E-09	1.0 E-08	1.0 E-09

Date Collected: 16-Jul-98
Sample Location: Willow #2, Irigaray
Sample Type: Regional Ground Water
Analytical Laboratory: Energy Lab, Casper, WY.

Radionuclide	Concentration (uCi/ml)	Error Estimate (uCi/ml)	LLD (uCi/ml)
U (Total)	3.0 E-10	N/A (a)	2.0 E-10
Th-230 (Total)	<2.0 E-10		2.0 E-10
Ra-226 (Total)	<2.0 E-10		2.0 E-10
Pb-210 (Total)	<1.0 E-09		1.0 E-09
Po-210 (Total)	2.7 E-09	2.0 E-10	1.0 E-09

Chemical Parameters	Concentration (mg/l)	Detection Limit (mg/l)
Cl	9.2	0.5
Specific Conductivity	521	1

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Date Collected: 19-Nov-98
Sample Location: Christensen Ranch House #3
Sample Type: Regional Ground Water
Analytical Laboratory: Energy Lab, Casper, WY.

Radionuclide	Concentration (uCi/ml)	Error Estimate (uCi/ml)	LLD (uCi/ml)
U (Total)	1.7 E-08	N/A (a)	2.0 E-10
Th-230 (Total)	<2.0 E-10		2.0 E-10
Ra-226 (Total)	1.1 E-09	2.0 E-08	2.0 E-10
Pb-210 (Total)	<1.0 E-09		1.0 E-09
Po-210 (Total)	<1.0 E-09		1.0 E-09

Date Collected: 19-Nov-98
Sample Location: Christensen Ellendale #4
Sample Type: Regional Ground Water
Analytical Laboratory: Energy Lab, Casper, WY.

Radionuclide	Concentration (uCi/ml)	Error Estimate (uCi/ml)	LLD (uCi/ml)
U (Total)	<2.0 E-10	N/A (a)	2.0 E-10
Th-230 (Total)	<2.0 E-10		2.0 E-10
Ra-226 (Total)	<2.0 E-10		2.0 E-10
Pb-210 (Total)	<1.0 E-09		1.0 E-09
Po-210 (Total)	7.5 E-09	3.0 E-08	1.0 E-09

Date Collected: 19-Nov-98
Sample Location: Christensen Willow Corral #32
Sample Type: Regional Ground Water
Analytical Laboratory: Energy Lab, Casper, WY.

Radionuclide	Concentration (uCi/ml)	Error Estimate (uCi/ml)	LLD (uCi/ml)
U (Total)	<2.0 E-10	N/A (a)	2.0 E-10
Th-230 (Total)	<2.0 E-10		2.0 E-10
Ra-226 (Total)	<2.0 E-10		2.0 E-10
Pb-210 (Total)	<1.0 E-09		1.0 E-09
Po-210 (Total)	<1.0 E-09		1.0 E-09

Date Collected: 19-Nov-98
Sample Location: Christensen First Artesian Well #1
Sample Type: Regional Ground Water
Analytical Laboratory: Energy Lab, Casper, WY.

Radionuclide	Concentration (uCi/ml)	Error Estimate (uCi/ml)	LLD (uCi/ml)
U (Total)	6.0 E-08	N/A (a)	2.0 E-10
Th-230 (Total)	<2.0 E-10		2.0 E-10
Ra-226 (Total)	6.0 E-08	2.0 E-08	2.0 E-10
Pb-210 (Total)	<1.0 E-09		1.0 E-09
Po-210 (Total)	<1.0 E-09		1.0 E-09

N/A = Not Applicable
(a) Uranium is a chemical rather than radiometric analysis. With no counting times there is no error estimate.

Date Collected: 19-Nov-98
Sample Location: Christensen Middle Artesian
Sample Type: Regional Ground Water
Analytical Laboratory: Energy Lab, Casper, WY.

Radionuclide	Concentration (uCi/ml)	Error Estimate (uCi/ml)	LLD (uCi/ml)
U (Total)	9.1 E-09	N/A (a)	2.0 E-10
Th-230 (Total)	<2.0 E-10		2.0 E-10
Ra-226 (Total)	8.0 E-08	2.0 E-08	2.0 E-10
Pb-210 (Total)	<1.0 E-09		1.0 E-09
Po-210 (Total)	<1.0 E-09		1.0 E-09

Date Collected: 19-Nov-98
Sample Location: Christensen Del Gulch Lower #13
Sample Type: Regional Ground Water
Analytical Laboratory: Energy Lab, Casper, WY.

Radionuclide	Concentration (uCi/ml)	Error Estimate (uCi/ml)	LLD (uCi/ml)
U (Total)	4.0 E-08	N/A (a)	2.0 E-10
Th-230 (Total)	<2.0 E-10		2.0 E-10
Ra-226 (Total)	7.0 E-08	2.0 E-08	2.0 E-10
Pb-210 (Total)	<1.0 E-09		1.0 E-09
Po-210 (Total)	<1.0 E-09		1.0 E-09

Date Collected: 10-Dec-98
Sample Location: Christensen North Prong #21R
Sample Type: Regional Ground Water
Analytical Laboratory: Energy Lab, Casper, WY.

Radionuclide	Concentration (uCi/ml)	Error Estimate (uCi/ml)	LLD (uCi/ml)
U (Total)	<2.0 E-10	N/A (a)	2.0 E-10
Th-230 (Total)	<2.0 E-10		2.0 E-10
Ra-226 (Total)	<2.0 E-10		2.0 E-10
Pb-210 (Total)	<1.0 E-09		1.0 E-09
Po-210 (Total)	<1.0 E-09		1.0 E-09

Date Collected: Semi-annual sample collected previous quarter.
Sample Location: Willow #2, Irigaray
Sample Type: Regional Ground Water
Analytical Laboratory: Energy Lab, Casper, WY.

Radionuclide	Concentration (uCi/ml)	Error Estimate (uCi/ml)	LLD (uCi/ml)
U (Total)	N/A	N/A (a)	2.0 E-10
Th-230 (Total)	N/A	1.1E-09	2.0 E-10
Ra-226 (Total)	N/A	4.0E-10	2.0 E-10
Pb-210 (Total)	N/A	3.9E-09	1.0 E-09
Po-210 (Total)	N/A	8.0E-10	1.0 E-09
Chemical Parameters	Concentration (mg/l)		Detection Limit (mg/l)
Cl			0.5
Specific Conductivity			1

COGEMA Mining, Inc.
 Environmental Radon Monitoring - 1998
 Irigaray Site

TABLE 5a

Location	1st Quarter uCi/ml	2nd Quarter uCi/ml	3rd Quarter uCi/ml	4th Quarter uCi/ml	Location Average uCi/ml	% of Pt. 20, App. B Effluent Conc. Limit 1 E-8 uCi/ml
IR-1 (Downwind of Restricted Area)	0.9 E-9 +/- 0.3	0.5 E-9 +/- 0.2	0.5 E-9 +/- 0.1	0.5 E-9 +/- 0.2	0.60 E-9	6.0 %
IR-3 (Upwind of Restricted Area)	0.9 E-9 +/- 0.3	0.8 E-9 +/- 0.2	1.0 E-9 +/- 0.1	0.8 E-9 +/- 0.2	0.88 E-9	8.8 %
IR-4 (North Road)	0.8 E-9 +/- 0.3	0.9 E-9 +/- 0.2	1.0 E-9 +/- 0.1	0.7 E-9 +/- 0.2	0.85 E-9	8.5 %
IR-5 (Irigaray Ranch - nearest resident)	0.4 E-9 +/- 0.3	< 0.3 E-9	0.4 E-9 +/- 0.1	0.2 E-9 +/- 0.1	0.25 E-9	2.5 %
IR-6 (Ridge Road S.E. - background)	0.7 E-9 +/- 0.3	< 0.3 E-9	0.6 E-9 +/- 0.1	0.3 E-9 +/- 0.2	0.40 E-9	4.0 %
IR-13 (Employee House Trailer)	0.8 E-9 +/- 0.3	0.7 E-9 +/- 0.2	1.0 E-9 +/- 0.1	0.4 E-9 +/- 0.2	0.72 E-9	7.2 %
Average	0.75 E-9	0.58 E-9	0.75 E-9	0.48 E-9		
High	0.9 E-9	0.9 E-9	1.0 E-9	0.8 E-9		
Low	0.4 E-9	< 0.3 E-9	0.4 E-9	0.2 E-9		

LLD = 0.3 pCi / l

COGEMA Mining, Inc.
 Environmental Radon Monitoring - 1998
 Christensen Site

TABLE 5b

Location	1st Quarter uCi/ml	2nd Quarter uCi/ml	3rd Quarter uCi/ml	4th Quarter uCi/ml	Location Average uCi/ml	% of Pt. 20, App. B Effluent Conc. Limit 1 E-8 uCi/ml
AS-1 (Table Mountain - Background))	0.7 E-9 +/- 0.3	* NA	0.9 E-9 +/- 0.1	0.7 E-9 +/- 0.2	0.77 E-9	7.7 %
AS-5A (CR Plant Upwind S.E.)	1.3 E-9 +/- 0.3	1.0 E-9 +/- 0.2	1.5 E-9 +/- 0.1	0.7 E-9 +/- 0.2	1.12 E-9	11.2 %
AS-5B (CR Plant Downwind N.W.)	1.3 E-9 +/- 0.3	0.7 E-9 +/- 0.2	0.7 E-9 +/- 0.1	0.6 E-9 +/- 0.2	0.82 E-9	8.2 %
AS-6 (Christensen Ranch-Nearest Resident)	1.0 E-9 +/- 0.3	< 0.3	0.8 E-9 +/- 0.1	0.8 E-9 +/- 0.2	0.72 E-9	7.2 %
Average	1.08 E-9	0.67 E-9	0.98 E-9	0.70 E-9		
High	1.3 E-9 +/- 0.3	0.7 E-9 +/- 0.2	0.7 E-9 +/- 0.1	0.8 E-9 +/- 0.1		
Low	0.7 E-9 +/- 0.3	1.0 E-9 +/- 0.2	1.5 E-9 +/- 0.1	0.6 E-9 +/- 0.1		

LLD = 0.3 pCi / l

* sample voided since the detector had fallen on the ground

COGEMA Mining, Inc.
 Environmental Gamma Monitoring - 1998
 Irigaray Site

TABLE 6a

Location	1st Quarter mrem/quarter	2nd Quarter mrem/quarter	3rd Quarter mrem/quarter	4th Quarter mrem/quarter	Location Average mrem/quarter
IR-1 (Downwind of Restricted Area)	96.6 +/- 26.5	94.2 +/- 32.6	66.8 +/- 8.6	37.4 +/- 3.6	73.8
IR-3 (Upwind of Restricted Area)	69.2 +/- 9.1	64.0 +/- 17.1	66.4 +/- 20.9	49.2 +/- 1.7	62.2
IR-4 (North Road - Background)	44.8 +/- 5.9	41.2 +/- 15.6	46.0 +/- 9.9	31.2 +/- 3.8	40.8
IR-5 (Irigaray Ranch - nearest resident)	40.4 +/- 12.4	35.6 +/- 8.6	39.2 +/- 11.5	26.2 +/- 1.7	35.4
IR-6 (Ridge Road S.E.)	43.2 +/- 16.5	36.8 +/- 14.7	41.8 +/- 11.0	31.2 +/- 5.2	38.2
IR-13 (Employee House Trailer)	47.6 +/- 12.0	36.0 +/- 9.8	53.8 +/- 6.4	32.6 +/- 6.9	42.5
Average	57.0	51.3	52.3	34.6	
High	96.6 +/- 26.5	94.2 +/- 32.6	66.8 +/- 8.6	49.2 +/- 1.7	
Low	40.4 +/- 12.4	35.6 +/- 8.6	39.2 +/- 11.5	26.2 +/- 1.7	

COGEMA Mining, Inc.
 Environmental Gamma Monitoring - 1998
 Christensen Site

TABLE 6b

Location	1st Quarter mrem/quarter	2nd Quarter mrem/quarter	3rd Quarter mrem/quarter	4th Quarter mrem/quarter	Location Average mrem/quarter
AS-1 (Table Mountain - Background))	39.6 +/- 10.0	35.0 +/- 12.6	44.0 +/- 4.0	31.2 +/- 3.3	37.4
AS-5A (CR Plant Upwind S.E.)	49.6 +/- 25.3	41.8 +/- 16.4	47.0 +/- 5.7	33.0 +/- 3.7	42.8
AS-5B (CR Plant Downwind N.W.)	50.6 +/- 10.3	35.4 +/- 11.4	44.2 +/- 7.5	32.0 +/- 4.0	40.6
AS-6 (Christensen Ranch-Nearest Resident)	42.6 +/- 9.7	43.6 +/- 11.2	42.4 +/- 6.7	34.2 +/- 4.3	40.7
Average	45.6	39.0	44.4	32.6	
High	50.6 +/- 10.3	43.6 +/- 11.2	47.0 +/- 5.7	34.2 +/- 4.3	
Low	39.6 +/- 10.0	35.0 +/- 12.6	42.4 +/- 6.7	31.2 +/- 3.3	

COGEMA Mining, Inc.
 Wyoming Operations
 Quarterly Air Samples
 Irigaray Site, Third Quarter of 1998
 Sample Type: Composite of continuous weekly air sample filters

TABLE 7a

Irigaray Site Location Third Quarter (July, August, September)	Uranium uCi / ml	Th-230 uCi / ml	Ra-226 uCi / ml	Pb-210 uCi / ml
IR-1 (Downwind of Restricted Area) % of Pt. 20, App. B, Effluent Limit	3.14 E-15 0.2 %	8.07 E-16 +/- 2.77 2.7 %	2.54 E-16 +/- .92 < 0.01 %	1.51 E-14 +/- .12 2.5 %
IR-3 (Upwind of Restricted Area) % of Pt. 20, App. B, Effluent Limit	2.06 E-15 0.1 %	< 1.00 E-16 < 0.33 %	< 1.00 E-16 < 0.01 %	1.70 E-14 +/- .13 2.8 %
IR-5 (Irigaray Ranch - nearest resident) % of Pt. 20, App. B, Effluent Limit	5.43 E-16 <0.1 %	5.72 E-16 +/- 2.29 1.9 %	< 1.00 E-16 < 0.01 %	9.18 E-15 +/- 1.08 1.5 %
IR-6 (Background) % of Pt. 20, App. B, Effluent Limit	2.94 E-16 <0.1 %	< 1.00 E-16 < 0.33 %	< 1.00 E-16 < 0.01 %	1.32 E-14 +/- .13 2.2 %
IR-13 (Employee House Trailer) % of Pt. 20, App. B, Effluent Limit	8.38 E-16 <0.1 %	4.12 E-16 +/- 1.83 1.4 %	< 1.00 E-16 < 0.01 %	1.70 E-14 +/- .13 2.8 %

Analyses performed by Energy Laboratories, Incorporated (ELI), Casper, Wyoming

* The activity for uranium is a mathematical calculation based on a chemical analysis, therefore, no precision estimate (error) is given.

Energy Lab LLD's
 Uranium = 1.0 E-16
 Th-230 = 1.0 E-16
 Ra-226 = 1.0 E-16
 Pb-210 = 2.0 E-15

Pt. 20, App.B, Effluent Limits (uCi / ml)
 Uranium = 1.9 E-12 (50%D and 50% W)
 Th-230 = 3.0 E-14 (Y)
 Ra-226 = 9.0 E-13 (W)
 Pb-210 = 6.0 E-13 (D)

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COGEMA Mining, Inc.
 Wyoming Operations
 Quarterly Air Samples
 Irigaray Site, Fourth Quarter of 1998
 Sample Type: Composite of continuous weekly air sample filters

TABLE 7b

Irigaray Site Location Fourth quarter (October, November, Dec.)	Uranium uCi / ml	Th-230 uCi / ml	Ra-226 uCi / ml	Pb-210 uCi / ml
IR-1 (Downwind of Restricted Area) % of Pt. 20, App. B, Effluent Limit	1.86 E-15 0.1 %	< 1.00 E-16 < 0.33 %	< 1.00 E-16 < 0.1 %	1.29 E-14 +/- .09 2.2 %
IR-3 (Upwind of Restricted Area) % of Pt. 20, App. B, Effluent Limit	1.93 E-15 0.1 %	< 1.00 E-16 < 0.33 %	< 1.00 E-16 < 0.1 %	1.28 E-14 +/- .09 2.1 %
IR-5 (Irigaray Ranch - nearest resident) % of Pt. 20, App. B, Effluent Limit	6.94 E-16 <0.1 %	< 1.00 E-16 < 0.33 %	< 1.00 E-16 < 0.1 %	8.29 E-15 +/- .82 1.4 %
IR-6 (Background) % of Pt. 20, App. B, Effluent Limit	6.03 E-16 <0.1 %	< 1.00 E-16 < 0.33 %	< 1.00 E-16 < 0.1 %	7.29 E-15 +/- .80 1.2 %
IR-13 (Employee House Trailer) % of Pt. 20, App. B, Effluent Limit	7.86 E-16 <0.1 %	< 1.00 E-16 < 0.33 %	< 1.00 E-16 < 0.1 %	8.53 E-15 +/- .84 1.4 %

Analyses performed by Energy Laboratories, Incorporated (ELI), Casper, Wyoming

* The activity for uranium is a mathematical calculation based on a chemical analysis, therefore, no precision estimate (error) is given.

Energy Lab LLD's
 Uranium = 1.0 E-16
 Th-230 = 1.0 E-16
 Ra-226 = 1.0 E-16
 Pb-210 = 2.0 E-15

Pt. 20, App.B, Effluent Limits (uCi / ml)
 Uranium = 1.9 E-12 (50%D and 50% W)
 Th-230 = 3.0 E-14 (Y)
 Ra-226 = 9.0 E-13 (W)
 Pb-210 = 6.0 E-13 (D)

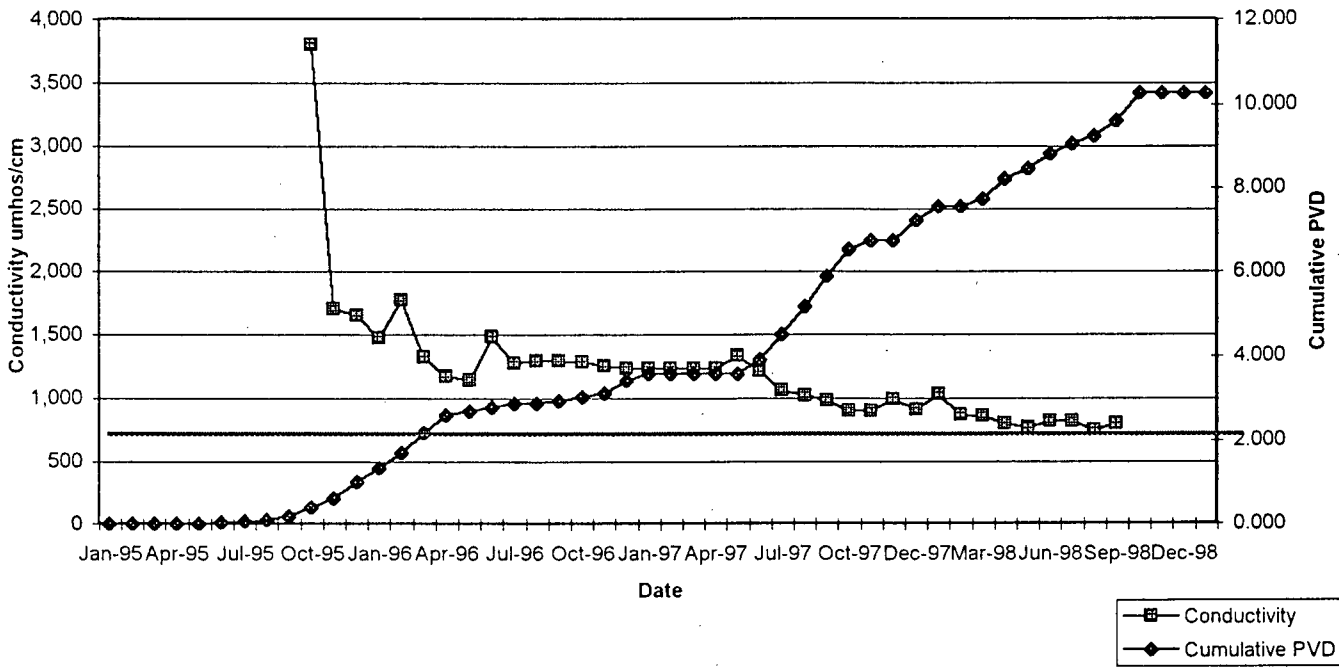
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Irigaray Units 4-5
Restoration Summary

Date	Conductivity Average umhos/cm	Monthly KGallons	Cumulative KGallons	Monthly PVD 1PVD = 10,500 kgal	Cumulative PVD
Jan-95		0			0.000
Feb-95		0			0.000
Mar-95		0			0.000
Apr-95		0	Begin Restoration	0.000	0.000
May-95		120	120	0.011	0.011
Jun-95		282	402	0.027	0.038
Jul-95		282	684	0.027	0.065
Aug-95		282	966	0.027	0.092
Sep-95		898	1,864	0.086	0.178
Oct-95	3,800	2,184	4,048	0.208	0.386
Nov-95	1,704	2,347	6,395	0.224	0.609
Dec-95	1,647	4,069	10,464	0.388	0.997
Jan-96	1,473	3,590	14,054	0.342	1.338
Feb-96	1,770	3,733	17,787	0.356	1.694
Mar-96	1,323	5,113	22,900	0.487	2.181
Apr-96	1,172	4,259	27,159	0.406	2.587
May-96	1,143	1,126	28,285	0.107	2.694
Jun-96	1,479	992	29,277	0.094	2.788
Jul-96	1,264	730	30,007	0.070	2.858
Aug-96	1,293	789	30,796	0.075	2.933
Sep-96	1,286	988	31,784	0.094	3.027
Oct-96	1,276	908	32,692	0.086	3.114
Nov-96	1,252	3,075	35,767	0.293	3.406
Dec-96	1,230	1,719	37,486	0.164	3.570
Jan-97	1,230	0	37,486	0.000	3.570
Feb-97	1,230	0	37,486	0.000	3.570
Mar-97	1,230	0	37,486	0.000	3.570
Apr-97	1,230	0	37,486	0.000	3.570
May-97	1,330	3,390	40,876	0.323	3.893
Jun-97	1,212	6,404	47,280	0.610	4.503
Jul-97	1,057	6,911	54,191	0.658	5.161
Aug-97	1,019	7,686	61,877	0.732	5.893
Sep-97	982	6,636	68,513	0.632	6.525
Oct-97	893	2,051	70,564	0.195	6.720
Nov-97	984	5,055	75,619	0.481	7.202
Dec-97	910	3,502	79,121	0.334	7.535
Jan-98	1,031	245	79,366	0.023	7.559
Feb-98	868	1,885	81,251	0.180	7.738
Mar-98	860	4,934	86,185	0.470	8.208
Apr-98	798	2,484	88,669	0.237	8.445
May-98	766	3,750	92,419	0.357	8.802
Jun-98	820	2,701	95,120	0.257	9.059
Jul-98	816	1,721	96,841	0.164	9.223
Aug-98	748	4,066	100,907	0.387	9.610
Sep-98	801	6,702	107,609	0.638	10.248
Oct-98		0	Restoration Finished	0.000	10.248
Nov-98		0		0.000	10.248
Dec-98		0		0.000	10.248

Irigaray Units 4-5
Restoration Summary

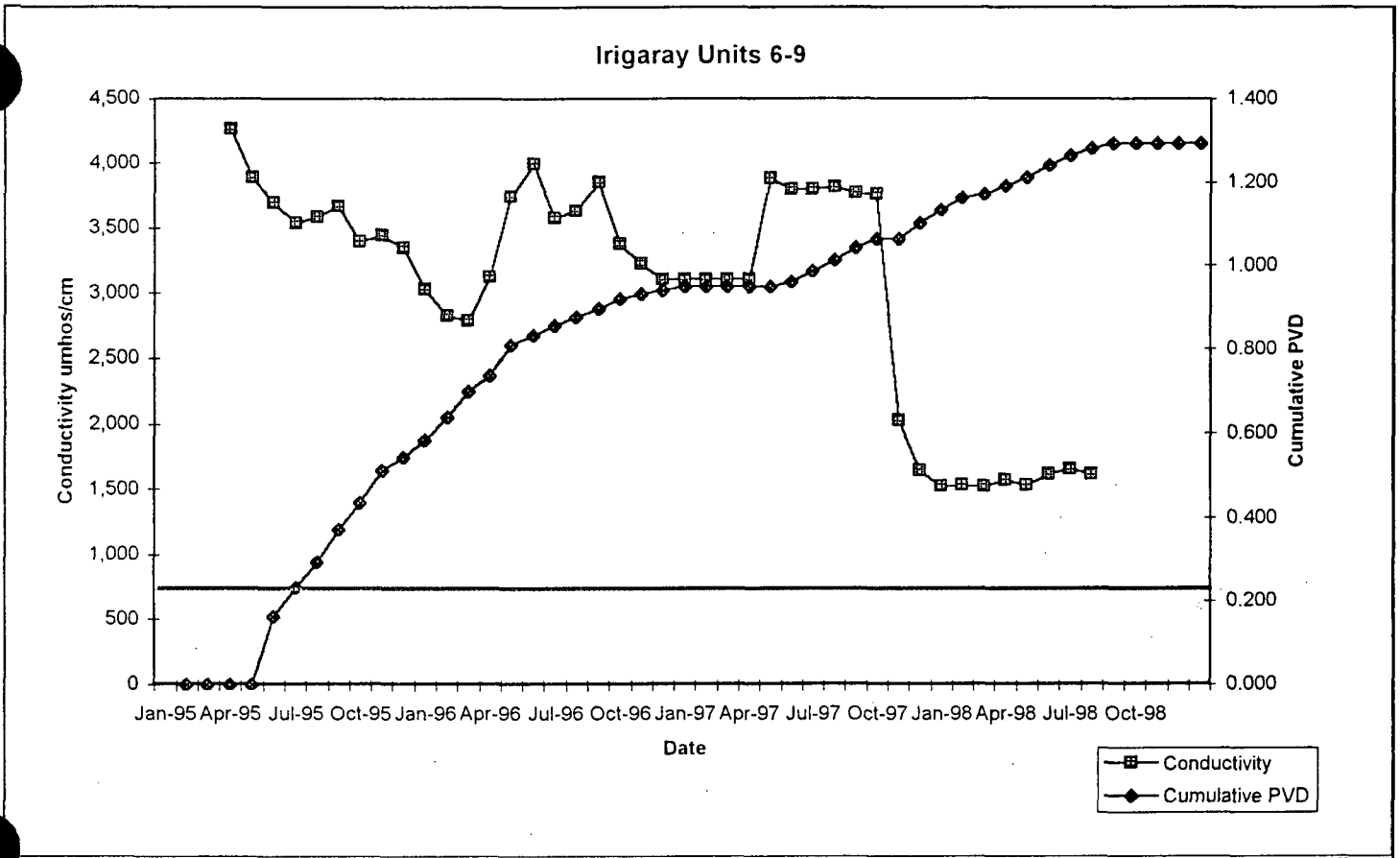
Irigaray Units 4-5



Irigaray Units 6-9
Restoration Summary

Date	Conductivity Average umhos/cm	Monthly KGallons	Cumulative KGallons	Monthly PVD 1 PVD = 39500 kgal	Cumulative PVD
Jan-95		5,972		0.151	0.000
Feb-95		1,549		0.039	0.000
Mar-95		1,703	Groundwater Sweep	0.043	0.000
Apr-95	4,261	3,025	Begin Restoration	0.077	0.000
May-95	3,895	3,318	6,343	0.084	0.161
Jun-95	3,697	2,774	9,117	0.070	0.231
Jul-95	3,538	2,454	11,571	0.062	0.293
Aug-95	3,582	3,097	14,668	0.078	0.371
Sep-95	3,668	2,468	17,136	0.062	0.434
Oct-95	3,395	3,077	20,213	0.078	0.512
Nov-95	3,440	1,232	21,445	0.031	0.543
Dec-95	3,346	1,537	22,982	0.039	0.582
Jan-96	3,033	2,278	25,260	0.058	0.639
Feb-96	2,831	2,375	27,635	0.060	0.700
Mar-96	2,785	1,436	29,071	0.036	0.736
Apr-96	3,121	2,935	32,006	0.074	0.810
May-96	3,744	927	32,933	0.023	0.834
Jun-96	3,995	917	33,850	0.023	0.857
Jul-96	3,578	714	34,564	0.018	0.875
Aug-96	3,633	825	35,389	0.021	0.896
Sep-96	3,852	943	36,332	0.024	0.920
Oct-96	3,375	412	36,744	0.010	0.930
Nov-96	3,231	397	37,141	0.010	0.940
Dec-96	3,107	335	37,476	0.008	0.949
Jan-97	3,107	0	37,476	0.000	0.949
Feb-97	3,107	0	37,476	0.000	0.949
Mar-97	3,107	0	37,476	0.000	0.949
Apr-97	3,107	0	37,476	0.000	0.949
May-97	3,880	454	37,930	0.011	0.960
Jun-97	3,798	1,099	39,029	0.028	0.988
Jul-97	3,799	939	39,968	0.024	1.012
Aug-97	3,820	1,138	41,106	0.029	1.041
Sep-97	3,773	808	41,914	0.020	1.061
Oct-97	3,763	55	41,969	0.001	1.063
Nov-97	2,028	1,454	43,423	0.037	1.099
Dec-97	1,640	1,247	44,670	0.032	1.131
Jan-98	1,518	1,160	45,830	0.029	1.160
Feb-98	1,531	331	46,161	0.008	1.169
Mar-98	1,518	862	47,023	0.022	1.190
Apr-98	1,570	774	47,797	0.020	1.210
May-98	1,529	1,123	48,920	0.028	1.238
Jun-98	1,617	924	49,844	0.023	1.262
Jul-98	1,648	697	50,541	0.018	1.280
Aug-98	1,615	466	51,007	0.012	1.291
Sep-98		0	Groundwater Sweep	0.000	1.291
Oct-98		0	Restoration Finished	0.000	1.291
Nov-98		0		0.000	1.291
Dec-98		0		0.000	1.291

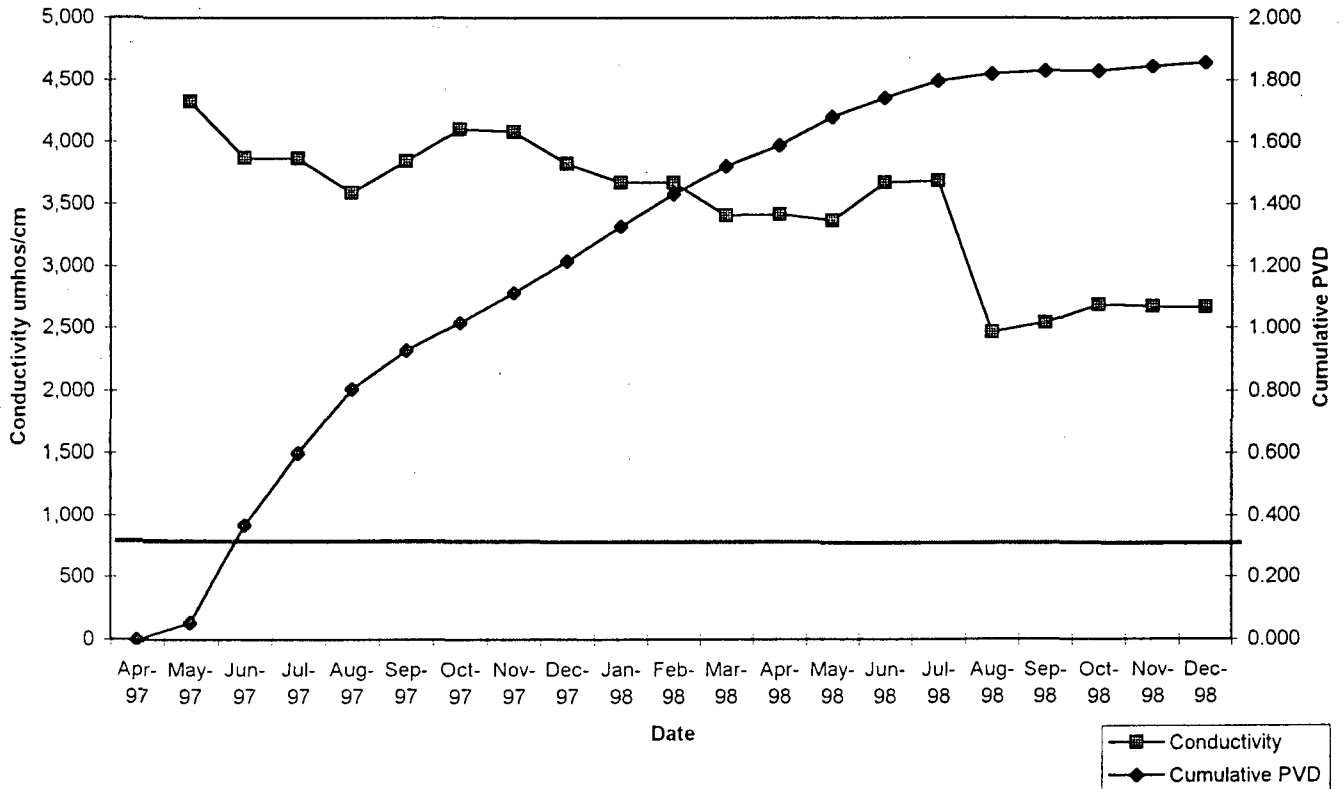
Irigaray Units 6-9 Restoration Summary



**Christensen Mine Unit 2
Restoration Summary**

Date	Conductivity	Monthly KGallons	Cumulative KGallons	Monthly PVD	Cumulative PVD
	Average umhos/cm		Groundwater Sweep	1PVD = 27,417 kgal	
Apr-97		0	Begin Restoration	0.000	0.000
May-97	4,324	1,480	1,480	0.054	0.054
Jun-97	3,870	8,649	10,129	0.315	0.369
Jul-97	3,869	6,314	16,443	0.230	0.600
Aug-97	3,591	5,656	22,099	0.206	0.806
Sep-97	3,848	3,310	25,409	0.121	0.927
Oct-97	4,103	2,406	27,815	0.088	1.015
Nov-97	4,083	2,711	30,526	0.099	1.113
Dec-97	3,826	2,845	33,371	0.104	1.217
Jan-98	3,673	3,041	36,412	0.111	1.328
Feb-98	3,671	2,850	39,262	0.104	1.432
Mar-98	3,407	2,488	41,750	0.091	1.523
Apr-98	3,413	1,828	43,578	0.067	1.589
May-98	3,363	2,460	46,038	0.090	1.679
Jun-98	3,671	1,694	47,732	0.062	1.741
Jul-98	3,686	1,544	49,276	0.056	1.797
Aug-98	2,463	617	49,893	0.023	1.820
Sep-98	2,537	277	50,170	0.010	1.830
Oct-98	2,685	0	50,170	0.000	1.830
Nov-98	2,672	402	50,572	0.015	1.845
Dec-98	2,668	308	50,880	0.011	1.856

Christensen Mine Unit 2 Groundwater Sweep



APPENDIX 1

Mechanical Integrity Test Results

**IRIGARAY UNIT 8
INTEGRITY TESTING SUMMARY - 1998**

Hole #	Date Tested	Casing Type	Bottom Casing Depth	Lower Packer Depth	Initial Pressure	Final Pressure	Pressure Loss	% Loss	Pass	Fail
KI-120	12-Oct-98	Fibglas	241	230	144	142	2	1.4	X	
KI-107	12-Oct-98	PVC	232	220	144	141	3	2.1	X	
KI-108	12-Oct-98	Fibglas	214	200	144	138	6	4.2	X	
KP-52	13-Oct-98	Fibglas	216	210	144	142	2	1.4	X	
KI-138	12-Oct-98	Fibglas	226	30	144	100	44	30.6		X
KI-118	13-Oct-98	Fibglas	220	210	144	143	1	0.7	X	
KI-100B	13-Oct-98	Yelomine	209	200	144	138	6	4.2	X	
KI-101B	13-Oct-98	Yelomine	205	190	144	137	7	4.9	X	
KP-53	13-Oct-98	Fibglas	233	220	144	141	3	2.1	X	
KI-105	13-Oct-98	PVC	203	190	144	139	5	3.5	X	
KI-111	13-Oct-98	PVC	202	190	144	134	10	6.9	X	
KI-110	14-Oct-98	Fibglas	216	200	144	141	3	2.1	X	
KI-102	14-Oct-98	Fibglas	191	180	144	139	5	3.5	X	
KP-43	14-Oct-98	Fibglas	197	190	144	142	2	1.4	X	
KI-86	14-Oct-98	PVC	172	160	144	140	4	2.8	X	
KI-92	14-Oct-98	PVC	173	160	144	139	5	3.5	X	
KP-37	14-Oct-98	Fibglas	203	190	144	143	1	0.7	X	
KI-88	14-Oct-98	Fibglas	180	170	144	141	3	2.1	X	
KI-98	14-Oct-98	PVC	200	170	144	139	5	3.5	X	
KI-155	15-Oct-98	Fibglas	218	200	144	142	2	1.4	X	
KI-113B	19-Oct-98	Yelomine	196	180	144	140	4	2.8	X	
KI-103	19-Oct-98	Fibglas	217	210	144	142	2	1.4	X	
KI-128B	19-Oct-98	Yelomine	235	220	144	142	2	1.4	X	
KI-119	19-Oct-98	Fibglas	217	200	144	143	1	0.7	X	
KI-109	19-Oct-98	Fibglas	213	200	144	141	3	2.1	X	
KP-44	20-Oct-98	Fibglas	210	200	144	141	3	2.1	X	
KP-72	20-Oct-98	Fibglas	167	160	144	143	1	0.7	X	
KP-42	20-Oct-98	Fibglas	200	180	144	144	0	0.0	X	
KP-45	20-Oct-98	Fibglas	199	180	144	141	3	2.1	X	
KP-49	20-Oct-98	Fibglas	223	210	144	139	5	3.5	X	
KI-93	21-Oct-98	PVC	204	190	144	140	4	2.8	X	
KI-95	21-Oct-98	PVC	190	180	144	139	5	3.5	X	
KP-76	21-Oct-98	Fibglas	200	190	144	138	6	4.2	X	
KI-96	21-Oct-98	PVC	201	190	144	139	5	3.5	X	
KI-97	21-Oct-98	PVC	210	190	144	100	44	30.6		X
KP-74	21-Oct-98	Fibglas	190	180	144	142	2	1.4	X	
KI-159	21-Oct-98	Yelomine	199	180	144	137	7	4.9	X	
KI-91	21-Oct-98	Yelomine	195	180	144	141	3	2.1	X	
KI-83	21-Oct-98	PVC	211	200	144	141	3	2.1	X	
KI-74	21-Oct-98	PVC	192	180	144	140	4	2.8	X	
KI-71	22-Oct-98	PVC	203	190	144	142	2	1.4	X	
KI-72	22-Oct-98	PVC	191	180	144	143	1	0.7	X	
KI-73	22-Oct-98	PVC	195	180	144	136	8	5.6	X	
KP-35	22-Oct-98	Fibglas	198	180	144	142	2	1.4	X	
KP-34	22-Oct-98	Fibglas	206	190	144	141	3	2.1	X	
KI-70	22-Oct-98	PVC	194	180	144	137	7	4.9	X	
KI-79	22-Oct-98	PVC	201	190	144	139	5	3.5	X	
KI-82	22-Oct-98	Fibglas	212	200	144	139	5	3.5	X	
KI-78	22-Oct-98	PVC	183	170	144	139	5	3.5	X	
KP-33	26-Oct-98	Fibglas	184	170	144	141	3	2.1	X	
KI-67	26-Oct-98	Fibglas	235	220	144	141	3	2.1	X	
KI-69	26-Oct-98	PVC	184	170	144	133	11	7.6	X	
KI-68	27-Oct-98	PVC	235	220	144	135	9	6.3	X	
KI-59	27-Oct-98	PVC	204	190	144	138	6	4.2	X	

**IRIGARAY UNIT 9
INTEGRITY TESTING SUMMARY - 1998**

Hole #	Date Tested	Casing Type	Bottom Casing Depth	Lower Packer Depth	Initial Pressure	Final Pressure	Pressure Loss	% Loss	Pass	Fail
LP-43	31-Aug-98	Fibglas	266	200	144	100	44	30.6		X
LI-105	01-Sep-98	Fibglas	246	200	144	100	44	30.6		X
LI-106	01-Sep-98	Fibglas	273	250	144	100	44	30.6		X
LI-90	01-Sep-98	Fibglas	278	260	144	141	3	2.1	X	
LI-91	01-Sep-98	Fibglas	278	260	144	130	14	9.7	X	
LP-37	01-Sep-98	Fibglas	298	280	144	132	12	8.3	X	
LP-52	01-Sep-98	Fibglas	284	270	144	141	3	2.1	X	
LI-74	02-Sep-98	Fibglas	285	270	144	139	5	3.5	X	
LP-30	02-Sep-98	Fibglas	299	290	144	141	3	2.1	X	
LI-110	02-Sep-98	Fibglas	309	300	144	136	8	5.6	X	
LI-87	02-Sep-98	Yelomine	236	60	144	114	30	20.8		X
LI-86	02-Sep-98	Yelomine	242	230	144	139	5	3.5	X	
LI-109	02-Sep-98	Fibglas	225	210	144	138	6	4.2	X	
LP-24	03-Sep-98	Fibglas	289	270	144	140	4	2.8	X	
LI-59	03-Sep-98	Fibglas	283	270	144	139	5	3.5	X	
LP-41B	03-Sep-98	Yelomine	268	260	144	139	5	3.5	X	
LI-48	03-Sep-98	Fibglas	302	290	144	139	5	3.5	X	
LP-71	08-Sep-98	Fibglas	300	290	144	100	44	30.6		X
LI-61	08-Sep-98	PVC	306	270	144	134	10	6.9	X	
LI-60	08-Sep-98	Fibglas	293	280	144	138	6	4.2	X	
LP-29	08-Sep-98	Fibglas	275	270	144	138	6	4.2	X	
LI-71	08-Sep-98	Fibglas	235	230	144	139	5	3.5	X	
LP-75	08-Sep-98	Fibglas	237	230	144	138	6	4.2	X	
LI-85	08-Sep-98	Fibglas	267	260	144	140	4	2.8	X	
LI-70	08-Sep-98	Fibglas	232	220	144	142	2	1.4	X	
LP-28	08-Sep-98	Fibglas	234	220	144	137	7	4.9	X	
LI-58	08-Sep-98	Fibglas	272	260	144	138	6	4.2	X	
LP-67	09-Sep-98	Fibglas	236	230	144	138	6	4.2	X	
LP-68	09-Sep-98	Fibglas	242	230	144	134	10	6.9	X	
LI-131	09-Sep-98	Fibglas	282	270	144	136	8	5.6	X	
LP-69	09-Sep-98	Fibglas	258	250	144	135	9	6.3	X	
LP-70	09-Sep-98	Fibglas	306	270	144	138	6	4.2	X	
LP-53	09-Sep-98	Fibglas	316	290	144	138	6	4.2	X	
LI-133	09-Sep-98	Fibglas	289	280	144	140	4	2.8	X	
LI-108	09-Sep-98	Fibglas	285	270	144	139	5	3.5	X	
LP-48	10-Sep-98	Fibglas	243	230	144	138	6	4.2	X	
LI-100	10-Sep-98	Fibglas	246	240	144	139	5	3.5	X	
LI-82	10-Sep-98	Fibglas	257	250	144	134	10	6.9	X	
LI-146	10-Sep-98	Fibglas	259	240	144	141	3	2.1	X	
LP-50	10-Sep-98	Fibglas	243	230	144	140	4	2.8	X	
LP-49	10-Sep-98	Fibglas	249	240	144	140	4	2.8	X	
LP-66	10-Sep-98	Fibglas	264	260	144	139	5	3.5	X	
LP-59	10-Sep-98	Fibglas	247	240	144	139	5	3.5	X	
LP-65	10-Sep-98	Fibglas	243	230	144	138	6	4.2	X	
LP-51	14-Sep-98	PVC	279	270	144	142	2	1.4	X	
LI-107	14-Sep-98	PVC	277	40	144	100	44	30.6		X
LI-75	15-Sep-98	Fibglas	284	270	144	130	14	9.7	X	
LI-92	15-Sep-98	Fibglas	297	280	144	142	2	1.4	X	
LI-76	15-Sep-98	Fibglas	317	290	144	142	2	1.4	X	
LP-35B	15-Sep-98	Fibglas	285	270	144	130	14	9.7	X	
LP-36	15-Sep-98	Fibglas	285	270	144	131	13	9.0	X	
LI-89	15-Sep-98	Fibglas	266	220	144	100	44	30.6		X
LI-88	15-Sep-98	Fibglas	270	20	144	100	44	30.6		X

**IRIGARAY UNIT 9
INTEGRITY TESTING SUMMARY - 1998**

Hole #	Date Tested	Casing Type	Bottom Casing Depth	Lower Packer Depth	Initial Pressure	Final Pressure	Pressure Loss	% Loss	Pass	Fail
LI-124	17-Sep-98	Fibglas	250	240	144	132	12	8.3	X	
LI-122	17-Sep-98	Fibglas	251	240	144	137	7	4.9	X	
LI-67	21-Sep-98	PVC	267	260	144	140	4	2.8	X	
LI-68	21-Sep-98	PVC	254	240	144	141	3	2.1	X	
LP-26	21-Sep-98	Fibglas	283	270	144	130	14	9.7	X	
LI-51	21-Sep-98	Fibglas	246	230	144	142	2	1.4	X	
LP-19	21-Sep-98	Fibglas	266	250	144	140	4	2.8	X	
LP-25	21-Sep-98	Fibglas	280	260	144	141	3	2.1	X	
LI-64	21-Sep-98	Fibglas	249	240	144	135	9	6.3	X	
LI-65	21-Sep-98	Fibglas	254	240	144	140	4	2.8	X	
LI-66	21-Sep-98	Fibglas	257	250	144	141	3	2.1	X	
LI-50	21-Sep-98	Fibglas	245	230	144	141	3	2.1	X	
LI-120	22-Sep-98	Fibglas	250	240	144	140	4	2.8	X	
LI-125	22-Sep-98	Fibglas	244	230	144	136	8	5.6	X	
LP-63	22-Sep-98	Fibglas	241	230	144	136	8	5.6	X	
LI-152	22-Sep-98	Fibglas	279	270	144	143	1	0.7	X	
LI-99	22-Sep-98	Fibglas	259	250	144	142	2	1.4	X	
LI-81	22-Sep-98	Fibglas	250	240	144	132	12	8.3	X	
LP-32	22-Sep-98	Fibglas	257	250	144	139	5	3.5	X	
LP-39	22-Sep-98	Fibglas	247	240	144	140	4	2.8	X	
LI-139	22-Sep-98	Fibglas	272	260	144	140	4	2.8	X	
LI-119	22-Sep-98	Fibglas	280	270	144	138	6	4.2	X	
LI-123	22-Sep-98	Fibglas	238	220	144	140	4	2.8	X	
LP-58	23-Sep-98	Fibglas	245	230	144	136	8	5.6	X	
LI-121	23-Sep-98	Fibglas	266	250	144	137	7	4.9	X	
LI-141	23-Sep-98	Fibglas	245	230	144	139	5	3.5	X	
LI-128	23-Sep-98	Fibglas	250	240	144	138	6	4.2	X	
LI-142	23-Sep-98	Fibglas	249	230	144	137	7	4.9	X	
LI-147B	23-Sep-98	Yelomine	317	300	144	130	14	9.7	X	
LI-143B	23-Sep-98	Yelomine	260	240	144	135	9	6.3	X	
LI-103	23-Sep-98	Fibglas	265	250	144	140	4	2.8	X	
LI-54	23-Sep-98	Fibglas	251	240	144	140	4	2.8	X	
LP-17	24-Sep-98	Fibglas	279	260	144	133	11	7.6	X	
LI-45	24-Sep-98	Fibglas	294	280	144	139	5	3.5	X	
LI-46	24-Sep-98	Fibglas	292	280	144	134	10	6.9	X	
LP-23	24-Sep-98	PVC	299	280	144	100	44	30.6		X
LI-57	24-Sep-98	Fibglas	254	240	144	139	5	3.5	X	
LI-44	24-Sep-98	Fibglas	259	240	144	142	2	1.4	X	
LP-22	24-Sep-98	Fibglas	225	210	144	135	9	6.3	X	
LI-56	24-Sep-98	Fibglas	229	210	144	141	3	2.1	X	
LI-55	24-Sep-98	Fibglas	251	240	144	139	5	3.5	X	
LI-145	02-Oct-98	Fibglas	227	220	144	142	2	1.4	X	
LI-31	02-Oct-98	Fibglas	229	220	144	140	4	2.8	X	
LP-16	02-Oct-98	Fibglas	223	210	144	142	2	1.4	X	
LI-41	02-Oct-98	Fibglas	241	230	144	141	3	2.1	X	
LI-42	02-Oct-98	Fibglas	246	230	144	139	5	3.5	X	
LI-43	02-Oct-98	Fibglas	230	210	144	140	4	2.8	X	
LP-21	02-Oct-98	Fibglas	248	230	144	139	5	3.5	X	
LI-40	02-Oct-98	Fibglas	269	250	144	137	7	4.9	X	
LP-20	02-Oct-98	Fibglas	264	250	144	143	1	0.7	X	
LI-19	02-Oct-98	Fibglas	234	220	144	140	4	2.8	X	
LP-11	02-Oct-98	Fibglas	268	260	144	138	6	4.2	X	
LI-30	02-Oct-98	Fibglas	232	220	144	139	5	3.5	X	

**IRIGARAY UNIT 9
INTEGRITY TESTING SUMMARY - 1998**

Hole #	Date Tested	Casing Type	Bottom Casing Depth	Lower Packer Depth	Initial Pressure	Final Pressure	Pressure Loss	% Loss	Pass	Fail
LI-32	02-Oct-98	Fibglas	291	280	144	136	8	5.6	X	
LI-4	03-Oct-98	Fibglas	234	30	144	100	44	30.6		X
LP-6	03-Oct-98	Fibglas	243	230	144	136	8	5.6	X	
LI-5	03-Oct-98	Fibglas	239	230	144	141	3	2.1	X	
LP-2	03-Oct-98	Fibglas	236	210	144	100	44	30.6		X
LP-13	04-Oct-98	Fibglas	287	270	144	140	4	2.8	X	
LI-21	04-Oct-98	Fibglas	283	270	144	138	6	4.2	X	
LP-8B	04-Oct-98	Yelomine	290	280	144	130	14	9.7	X	
LI-20	04-Oct-98	Fibglas	231	220	144	139	5	3.5	X	
LP-7	04-Oct-98	Fibglas	228	220	144	143	1	0.7	X	
LI-17	04-Oct-98	Fibglas	238	230	144	140	4	2.8	X	
LI-29	04-Oct-98	Fibglas	250	240	144	142	2	1.4	X	
LI-9	04-Oct-98	Fibglas	225	210	144	142	2	1.4	X	
LI-28	05-Oct-98	Fibglas	251	240	144	142	2	1.4	X	
LI-26	05-Oct-98	Fibglas	242	230	144	141	3	2.1	X	
LI-38	05-Oct-98	Fibglas	258	240	144	136	8	5.6	X	
LP-14	05-Oct-98	Fibglas	242	230	144	137	7	4.9	X	
LI-39	05-Oct-98	Fibglas	252	240	144	140	4	2.8	X	
LI-27	05-Oct-98	Fibglas	248	230	144	139	5	3.5	X	
LP-62	05-Oct-98	Fibglas	241	230	144	142	2	1.4	X	
LI-15	07-Oct-98	Fibglas	241	230	144	143	1	0.7	X	
LI-109	07-Oct-98	Fibglas	295	285	144	138	6	4.2	X	
LI-73	07-Oct-98	Fibglas	273	260	144	137	7	4.9	X	
LI-80	07-Oct-98	Fibglas	244	230	144	142	2	1.4	X	
LI-155	07-Oct-98	PVC	242	230	144	136	8	5.6	X	
LP-5	07-Oct-98	Fibglas	231	220	144	131	13	9.0	X	
LI-16	07-Oct-98	Fibglas	223	220	144	139	5	3.5	X	
LP-10	07-Oct-98	Fibglas	238	210	144	140	4	2.8	X	
LI-34	07-Oct-98	Fibglas	288	270	144	132	12	8.3	X	
LI-8	07-Oct-98	Fibglas	217	210	144	136	8	5.6	X	
LI-33	08-Oct-98	Fibglas	289	270	144	140	4	2.8	X	
LI-47	08-Oct-98	Fibglas	300	280	144	138	6	4.2	X	
LP-12	12-Oct-98	Fibglas	231	220	144	140	4	2.8	X	
LP-57	12-Oct-98	Fibglas	266	220	144	143	1	0.7	X	
LI-3	13-Oct-98	Fibglas	254	240	144	132	12	8.3	X	
LI-84	26-Oct-98	Fibglas	269	260	144	138	6	4.2	X	
LI-132	26-Oct-98	Fibglas	291	280	144	139	5	3.5	X	
LP-71	16-Dec-98	Fibglas	294	275	144	141	3	2.1	X	
LI-87B	16-Dec-98	Yelomine	236	230	144	141	3	2.1	X	
LI-22	17-Dec-98	Fibglas	287	15	144	100	44	30.6		X
LP-40	28-Dec-98	PVC	249	230	144	138	6	4.2	X	

**CHRISTENSEN PRODUCTION UNIT 2
INTEGRITY TESTING SUMMARY - 1998**

Hole #	Date Tested	Casing Type	Bottom Casing Depth	Lower Packer Depth	Initial Pressure	Final Pressure	Pressure Loss	% Loss	Pass	Fail
2Y36-1	12-Aug-98	PVC	290	280	168	160	8	4.8	X	
2AB27-1	24-Aug-98	PVC	345	330	168	159	9	5.4	X	
2AB26-2	24-Aug-98	PVC	273	260	168	160	8	4.8	X	
2Z34-2	24-Aug-98	PVC	342	330	168	155	13	7.7	X	
2Y34-1	24-Aug-98	PVC	265	250	168	153	15	8.9	X	
2Z38-1	24-Aug-98	PVC	341	330	168	158	10	6.0	X	
2Z40-1	24-Aug-98	PVC	326	310	168	153	15	8.9	X	
2Y38-1	24-Aug-98	PVC	243	230	168	160	8	4.8	X	
2Z42-1	25-Aug-98	PVC	320	310	168	157	11	6.5	X	
2Y42-1	25-Aug-98	PVC	228	210	168	154	14	8.3	X	
2Y40-1	25-Aug-98	PVC	239	230	168	157	11	6.5	X	
2Y46-1	25-Aug-98	PVC	324	310	168	161	7	4.2	X	
2Z44-2	25-Aug-98	PVC	322	310	168	159	9	5.4	X	
2Z46-2	25-Aug-98	PVC	319	310	168	158	10	6.0	X	
2R109-1	27-Aug-98	PVC	405	280	168	100	68	40.5		X
2Q115-1	27-Aug-98	PVC	396	80	168	100	68	40.5		X
2S89-2	27-Aug-98	PVC	396	160	168	100	68	40.5		X
2AH29-1	27-Aug-98	PVC	364	20	168	100	68	40.5		X

**CHRISTENSEN PRODUCTION UNIT 3
INTEGRITY TESTING SUMMARY - 1998**

Hole #	Date Tested	Casing Type	Bottom Casing Depth	Lower Packer Depth	Initial Pressure	Final Pressure	Pressure Loss	% Loss	Pass	Fail
2H8s-2	03-Sep-98	PVC	300	290	168	160	8	4.8	X	
2H7s-2	03-Sep-98	PVC	298	290	168	154	14	8.3	X	
2H5s-2	03-Sep-98	PVC	307	290	168	157	11	6.5	X	
2G6s-1	03-Sep-98	PVC	307	290	168	159	9	5.4	X	
2H4s-1	03-Sep-98	PVC	305	290	168	153	15	8.9	X	
2H3s-2	03-Sep-98	PVC	299	290	168	157	11	6.5	X	
2H2s-1	03-Sep-98	PVC	296	290	168	155	13	7.7	X	
2I3s-1	03-Sep-98	PVC	290	280	168	158	10	6.0	X	
2I5s-1	03-Sep-98	PVC	300	290	168	154	14	8.3	X	
2H6s-1	03-Sep-98	PVC	304	290	168	154	14	8.3	X	
2I7s-1	04-Sep-98	PVC	321	310	168	155	13	7.7	X	
2I6s-1	04-Sep-98	PVC	324	310	168	156	12	7.1	X	
2K8s-1	04-Sep-98	PVC	276	260	168	153	15	8.9	X	
3F19-2	04-Sep-98	PVC	265	250	168	154	14	8.3	X	
3E18-3	04-Sep-98	PVC	263	250	168	157	11	6.5	X	
3I23-1	04-Sep-98	PVC	247	230	168	158	10	6.0	X	
3E9-1	04-Sep-98	PVC	288	280	168	159	9	5.4	X	
3H22-1	04-Sep-98	PVC	218	210	168	152	16	9.5	X	
3I21-1	04-Sep-98	PVC	216	210	168	154	14	8.3	X	
3J35-1	07-Sep-98	PVC	317	310	168	162	6	3.6	X	
3K31-1	07-Sep-98	PVC	292	280	168	160	8	4.8	X	
3S21-2	08-Sep-98	PVC	205	190	168	162	6	3.6	X	
3N18-2	08-Sep-98	PVC	214	200	168	160	8	4.8	X	
3N21-2	08-Sep-98	PVC	247	210	168	160	8	4.8	X	
3AB82-1	14-Sep-98	PVC	390	380	168	160	8	4.8	X	
3Z86-2	14-Sep-98	PVC	305	290	168	161	7	4.2	X	
3AB74-3	14-Sep-98	PVC	390	380	168	163	5	3.0	X	
3K24-1	17-Sep-98	PVC	242	210	168	162	6	3.6	X	
3L25-1	17-Sep-98	PVC	210	200	168	160	8	4.8	X	
3L26-1	17-Sep-98	PVC	192	160	168	162	6	3.6	X	
3M27-1	17-Sep-98	PVC	196	180	168	161	7	4.2	X	
3P30-1	17-Sep-98	PVC	212	200	168	160	8	4.8	X	

**CHRISTENSEN PRODUCTION UNIT 4
INTEGRITY TESTING SUMMARY - 1998**

Hole #	Date Tested	Casing Type	Bottom Casing Depth	Lower Packer Depth	Initial Pressure	Final Pressure	Pressure Loss	% Loss	Pass	Fail
4K27-2	24-Sep-98	PVC	375	360	168	161	7	4.2	X	
4J26-1	24-Sep-98	PVC	371	360	168	160	8	4.8	X	
4J27-2	24-Sep-98	PVC	378	360	168	159	9	5.4	X	
4K25-1	24-Sep-98	PVC	386	360	168	162	6	3.6	X	
4L9-1	24-Sep-98	PVC	340	330	168	159	9	5.4	X	
4L8-1	28-Sep-98	PVC	320	310	168	158	10	6.0	X	
4L7-1	28-Sep-98	PVC	334	330	168	161	7	4.2	X	
4K7-1	28-Sep-98	PVC	370	360	168	162	6	3.6	X	
4K6-1	28-Sep-98	PVC	359	350	168	159	9	5.4	X	
4L5-1	28-Sep-98	PVC	350	340	168	160	8	4.8	X	
4K4-1	28-Sep-98	PVC	364	350	168	166	2	1.2	X	
4J6-1	28-Sep-98	PVC	412	400	168	159	9	5.4	X	
4J5-1	28-Sep-98	PVC	411	400	168	164	4	2.4	X	
4I4-1	28-Sep-98	PVC	410	400	168	160	8	4.8	X	
4K29-1	29-Sep-98	PVC	360	350	168	159	9	5.4	X	
4K28-1	29-Sep-98	PVC	354	340	168	162	6	3.6	X	
4L34-1	30-Sep-98	PVC	373	360	168	158	10	6.0	X	
4L34-2	30-Sep-98	PVC	339	330	168	162	6	3.6	X	
4L36-2	30-Sep-98	PVC	342	330	168	160	8	4.8	X	
4L35-1	30-Sep-98	PVC	351	340	168	161	7	4.2	X	
4L33-1	30-Sep-98	PVC	339	330	168	162	6	3.6	X	
4K32-2	30-Sep-98	PVC	338	310	168	159	9	5.4	X	
4L31-2	30-Sep-98	PVC	324	310	168	163	5	3.0	X	
4L31-1	30-Sep-98	PVC	379	360	168	160	8	4.8	X	
4L32-1	30-Sep-98	PVC	377	360	168	162	6	3.6	X	
4N37-1	01-Oct-98	PVC	443	430	168	159	9	5.4	X	
4M36-1	01-Oct-98	PVC	443	430	168	160	8	4.8	X	
4M35-2	01-Oct-98	PVC	338	330	168	158	10	6.0	X	
4M34-2	01-Oct-98	PVC	350	340	168	160	8	4.8	X	
4M34-1	01-Oct-98	PVC	459	450	168	157	11	6.5	X	
4N29-1	01-Oct-98	PVC	407	390	168	161	7	4.2	X	
4M28-1	01-Oct-98	PVC	404	390	168	155	13	7.7	X	
4M29-2	01-Oct-98	PVC	406	390	168	156	12	7.1	X	
4L30-2	01-Oct-98	PVC	418	410	168	161	7	4.2	X	
4N38-1	07-Oct-98	PVC	445	430	168	162	6	3.6	X	
4N40-2	07-Oct-98	PVC	441	430	168	160	8	4.8	X	
4M38-3	07-Oct-98	PVC	447	430	168	160	8	4.8	X	
4N39-2	07-Oct-98	PVC	446	430	168	161	7	4.2	X	
4M40-1	08-Oct-98	PVC	350	340	168	163	5	3.0	X	
4N41-2	08-Oct-98	PVC	351	340	168	162	6	3.6	X	
4M42-2	08-Oct-98	PVC	350	340	168	159	9	5.4	X	
4N51-4	08-Oct-98	PVC	373	360	168	158	10	6.0	X	
4M50-1	08-Oct-98	PVC	388	380	168	162	6	3.6	X	
4M49-1	08-Oct-98	PVC	420	410	168	159	9	5.4	X	
4M45-1	08-Oct-98	PVC	426	410	168	162	6	3.6	X	
4M43-2	08-Oct-98	PVC	422	410	168	161	7	4.2	X	
4M43-3	08-Oct-98	PVC	359	350	168	160	8	4.8	X	
4M44-1	08-Oct-98	PVC	421	410	168	159	9	5.4	X	
4N57-2	12-Oct-98	PVC	380	360	168	166	2	1.2	X	
4N58-2	12-Oct-98	PVC	370	360	168	163	5	3.0	X	
4O55-2	12-Oct-98	PVC	370	360	168	160	8	4.8	X	
4N52-1	12-Oct-98	PVC	363	350	168	164	4	2.4	X	
4N53-2	12-Oct-98	PVC	360	350	168	164	4	2.4	X	

**CHRISTENSEN PRODUCTION UNIT 4
INTEGRITY TESTING SUMMARY - 1998**

Hole #	Date Tested	Casing Type	Bottom Casing Depth	Lower Packer Depth	Initial Pressure	Final Pressure	Pressure Loss	% Loss	Pass	Fail
4N54-1	12-Oct-98	PVC	361	350	168	160	8	4.8	X	
4R71-2	19-Oct-98	PVC	391	380	168	166	2	1.2	X	
4Q70-3	19-Oct-98	PVC	385	380	168	164	4	2.4	X	
4R69-1	19-Oct-98	PVC	381	360	168	162	6	3.6	X	
4Q71-1	20-Oct-98	PVC	405	20	168	100	68	40.5	X	X
4Q69-2	20-Oct-98	PVC	387	380	168	163	5	3.0	X	
4P68-1	20-Oct-98	PVC	403	390	168	160	8	4.8	X	
4P67-1	20-Oct-98	PVC	398	380	168	166	2	1.2	X	
4O66-1	20-Oct-98	PVC	391	380	168	161	7	4.2	X	
4P65-2	20-Oct-98	PVC	386	380	168	160	8	4.8	X	
4O64-1	20-Oct-98	PVC	385	380	168	159	9	5.4	X	
4O63-2	20-Oct-98	PVC	387	380	168	155	13	7.7	X	
4O59-2	20-Oct-98	PVC	420	410	168	158	10	6.0	X	
4O61-1	21-Oct-98	PVC	417	410	168	166	2	1.2	X	
4O62-2	21-Oct-98	PVC	393	380	168	165	3	1.8	X	
4P63-1	21-Oct-98	PVC	393	380	168	160	8	4.8	X	
4O67-3	21-Oct-98	PVC	407	390	168	166	2	1.2	X	
4O67-2	21-Oct-98	PVC	405	390	168	161	7	4.2	X	
4N70-1	21-Oct-98	PVC	394	380	168	160	8	4.8	X	
4O71-1	21-Oct-98	PVC	387	380	168	167	1	0.6	X	
4O72-1	21-Oct-98	PVC	385	380	168	165	3	1.8	X	
4O69-1	21-Oct-98	PVC	408	390	168	162	6	3.6	X	
4O70-1	21-Oct-98	PVC	391	380	168	164	4	2.4	X	
4P71-1	21-Oct-98	PVC	392	380	168	167	1	0.6	X	
4P69-1	21-Oct-98	PVC	394	380	168	163	5	3.0	X	
4P71-1	21-Oct-98	PVC	392	380	168	160	8	4.8	X	
4S78-1	23-Nov-98	PVC	396	380	168	164	4	2.4	X	
4S77-2	23-Nov-98	PVC	391	380	168	161	7	4.2	X	
4R77-1	30-Nov-98	PVC	394	380	168	163	5	3.0	X	
4Q75-3	30-Nov-98	PVC	390	380	168	160	8	4.8	X	
4Q73-1	30-Nov-98	PVC	404	390	168	161	7	4.2	X	
4P72-2	30-Nov-98	PVC	393	380	168	162	6	3.6	X	
4R73-2	30-Nov-98	PVC	384	370	168	166	2	1.2	X	
4R75-1	30-Nov-98	PVC	389	380	168	158	10	6.0	X	
4R76-3	30-Nov-98	PVC	387	380	168	164	4	2.4	X	
4P76-1	01-Dec-98	PVC	410	400	168	157	11	6.5	X	
4Q77-2	01-Dec-98	PVC	409	390	168	152	16	9.5	X	
4Q78-1	01-Dec-98	PVC	411	390	168	158	10	6.0	X	
4R79-3	01-Dec-98	PVC	328	310	168	156	12	7.1	X	
4R80-1	01-Dec-98	PVC	341	330	168	164	4	2.4	X	
4S81-2	01-Dec-98	PVC	343	330	168	154	14	8.3	X	
4S79-1	01-Dec-98	PVC	393	380	168	164	4	2.4	X	
4S79-2	01-Dec-98	PVC	330	310	168	153	15	8.9	X	
4R78-1	01-Dec-98	PVC	387	380	168	157	11	6.5	X	
4R81-1	02-Dec-98	PVC	411	30	168	100	68	40.5		X
4P74-1	02-Dec-98	PVC	408	390	168	162	6	3.6	X	
4P73-1	02-Dec-98	PVC	403	390	168	164	4	2.4	X	
4O73-2	02-Dec-98	PVC	416	400	168	165	3	1.8	X	
4O74-1	02-Dec-98	PVC	426	400	168	165	3	1.8	X	
4P75-1	02-Dec-98	PVC	421	400	168	159	9	5.4	X	
4P77-3	03-Dec-98	PVC	330	310	168	165	3	1.8	X	
4P77-2	03-Dec-98	PVC	409	390	168	159	9	5.4	X	
4O78-1	03-Dec-98	PVC	448	430	168	163	5	3.0	X	

**CHRISTENSEN PRODUCTION UNIT 4
INTEGRITY TESTING SUMMARY - 1998**

Hole #	Date Tested	Casing Type	Bottom Casing Depth	Lower Packer Depth	Initial Pressure	Final Pressure	Pressure Loss	% Loss	Pass	Fail
4P79-2	03-Dec-98	PVC	439	420	168	159	9	5.4	X	
4P80-2	03-Dec-98	PVC	445	440	168	158	10	6.0	X	
4R82-2	03-Dec-98	PVC	421	400	168	152	16	9.5	X	
4R83-1	03-Dec-98	PVC	417	400	168	162	6	3.6	X	
4R85-2	03-Dec-98	PVC	465	450	168	164	4	2.4	X	
4O68-1	07-Dec-98	PVC	386	370	168	161	7	4.2	X	
4P78-2	07-Dec-98	PVC	332	310	168	158	10	6.0	X	
4P78-1	07-Dec-98	PVC	407	390	168	155	13	7.7	X	
4Q74-2	07-Dec-98	PVC	388	380	168	166	2	1.2	X	
4N68-1	08-Dec-98	PVC	392	380	168	159	9	5.4	X	
4N66-2	08-Dec-98	PVC	395	380	168	163	5	3.0	X	
4O58-1	08-Dec-98	PVC	416	400	168	155	13	7.7	X	
4P80-2	08-Dec-98	PVC	445	430	168	158	10	6.0	X	
4R87-1	09-Dec-98	PVC	460	450	168	162	6	3.6	X	
4RM07	09-Dec-98	PVC	457	450	168	161	7	4.2	X	
4R88-1	09-Dec-98	PVC	447	430	168	162	6	3.6	X	
4R94-1	10-Dec-98	PVC	413	60	168	100	68	40.5		X
4R95-2	10-Dec-98	PVC	475	460	168	164	4	2.4	X	
4R95-3	10-Dec-98	PVC	415	400	168	161	7	4.2	X	
4R96-1	10-Dec-98	PVC	421	400	168	158	10	6.0	X	
4R86-1	10-Dec-98	PVC	472	460	168	164	4	2.4	X	

CHRISTENSEN PRODUCTION UNIT 6
INTEGRITY TESTING SUMMARY - 1998

Hole #	Date Tested	Casing Type	Bottom Casing Depth	Lower Packer Depth	Initial Pressure	Final Pressure	Pressure Loss	% Loss	Pass	Fail
6X25-1	13-Aug-98	PVC	480	460	168	158	10	6.0	X	
6AD42-1	13-Aug-98	PVC	463	450	168	162	6	3.6	X	

**CHRISTENSEN PRODUCTION UNIT 7
INTEGRITY TESTING SUMMARY - 1998**

Hole #	Date Tested	Casing Type	Bottom Casing Depth	Lower Packer Depth	Initial Pressure	Final Pressure	Pressure Loss	% Loss	Pass	Fail
7AZ77-3	09-Jul-98	PVC	549	540	168	159	9	5.4	X	
7AZ79-1	09-Jul-98	PVC	548	540	168	157	11	6.5	X	
7AZ78-4	09-Jul-98	PVC	589	580	168	156	12	7.1	X	
7AY78-1	09-Jul-98	PVC	595	580	168	158	10	6.0	X	
7AY76-1	09-Jul-98	PVC	593	580	168	160	8	4.8	X	
7AZ78-3	21-Jul-98	PVC	548	530	168	156	12	7.1	X	
7AX80-1	21-Jul-98	PVC	560	550	168	162	6	3.6	X	
7AZ80-1	21-Jul-98	PVC	547	530	168	159	9	5.4	X	
7AZ81-2	21-Jul-98	PVC	548	530	168	158	10	6.0	X	
7AY82-3	21-Jul-98	PVC	542	530	168	156	12	7.1	X	
7AZ83-3	21-Jul-98	PVC	554	540	168	158	10	6.0	X	
7AZ81-1	21-Jul-98	PVC	545	530	168	154	14	8.3	X	
7BG75-1	22-Jul-98	PVC	565	550	168	154	14	8.3	X	
7BF76-2	22-Jul-98	PVC	551	540	168	155	13	7.7	X	
7BH75-1	22-Jul-98	PVC	566	550	168	158	10	6.0	X	
7BI75-1	22-Jul-98	PVC	566	550	168	155	13	7.7	X	
7BI77-1	22-Jul-98	PVC	567	550	168	154	14	8.3	X	
7AY81-2	13-Aug-98	PVC	475	460	168	160	8	4.8	X	
7AZ79-2	13-Aug-98	PVC	471	460	168	162	6	3.6	X	
7AY77-2	13-Aug-98	PVC	475	460	168	156	12	7.1	X	
7AZ83-4	13-Aug-98	PVC	472	460	168	160	8	4.8	X	
7AY83-1	13-Aug-98	PVC	564	550	168	159	9	5.4	X	
7AY85-3	18-Aug-98	PVC	583	560	168	161	7	4.2	X	
7AW82-1	18-Aug-98	PVC	591	570	168	156	12	7.1	X	
7AW85-1	18-Aug-98	PVC	560	540	168	154	14	8.3	X	
7AY86-1	19-Aug-98	PVC	560	540	168	154	14	8.3	X	
7AU85-1	19-Aug-98	PVC	570	560	168	155	13	7.7	X	
7AU84-1	19-Aug-98	PVC	572	560	168	159	9	5.4	X	
7AU82-2	19-Aug-98	PVC	574	560	168	160	8	4.8	X	
7AU80-1	19-Aug-98	PVC	580	560	168	158	10	6.0	X	
7AW80-1	19-Aug-98	PVC	606	590	168	157	11	6.5	X	
7AV82-1	19-Aug-98	PVC	583	560	168	159	9	5.4	X	
7AV83-1	19-Aug-98	PVC	572	560	168	160	8	4.8	X	
7AX86-1	20-Aug-98	PVC	583	570	168	160	8	4.8	X	
7AW87-1	20-Aug-98	PVC	562	550	168	159	9	5.4	X	
7AV89-1	20-Aug-98	PVC	558	540	168	154	14	8.3	X	
7BG76-1	20-Aug-98	PVC	555	540	168	160	8	4.8	X	
7AU83-1	15-Sep-98	PVC	364	350	168	160	8	4.8	X	
7AU84-2	15-Sep-98	PVC	365	350	168	159	9	5.4	X	
7AU88-1	15-Sep-98	PVC	358	350	168	163	5	3.0	X	
7AV88-1	15-Sep-98	PVC	360	350	168	156	12	7.1	X	
7AZ85-3	15-Sep-98	PVC	485	470	168	161	7	4.2	X	
7AU62-2	15-Sep-98	PVC	375	360	168	158	10	6.0	X	
7AX85-1	15-Sep-98	PVC	557	540	168	160	8	4.8	X	
7AX87-1	15-Sep-98	PVC	565	550	168	159	9	5.4	X	
7AW86-1	16-Sep-98	PVC	552	540	168	158	10	6.0	X	
7AX87-2	16-Sep-98	PVC	558	540	168	156	12	7.1	X	
7AX88-2	16-Sep-98	PVC	605	590	168	157	11	6.5	X	
7AY86-1	16-Sep-98	PVC	580	560	168	155	13	7.7	X	
NPHW9A	16-Sep-98	PVC	550	540	168	156	12	7.1	X	
7AU86-1	16-Sep-98	PVC	362	350	168	156	12	7.1	X	
7AW87-2	16-Sep-98	PVC	363	350	168	161	7	4.2	X	
7AW88-2	13-Oct-98	PVC	360	350	168	159	9	5.4	X	

**CHRISTENSEN PRODUCTION UNIT 7
INTEGRITY TESTING SUMMARY - 1998**

Hole #	Date Tested	Casing Type	Bottom Casing Depth	Lower Packer Depth	Initial Pressure	Final Pressure	Pressure Loss	% Loss	Pass	Fail
7AU90-1	13-Oct-98	PVC	355	340	168	165	3	1.8	X	
7AX79-2	13-Oct-98	PVC	609	590	168	160	8	4.8	X	
7AW84-3	13-Oct-98	PVC	557	540	168	156	12	7.1	X	
7AZ88-4	13-Oct-98	PVC	578	560	168	160	8	4.8	X	
7AZ89-1	13-Oct-98	PVC	575	560	168	160	8	4.8	X	
7AY89-1	14-Oct-98	PVC	565	550	168	160	8	4.8	X	
7AX89-1	14-Oct-98	PVC	568	550	168	158	10	6.0	X	
7AX88-1	14-Oct-98	PVC	558	550	168	162	6	3.6	X	
7AX87-2	14-Oct-98	PVC	558	550	168	158	10	6.0	X	
7AX85-2	14-Oct-98	PVC	575	560	168	157	11	6.5	X	
7AT95-1	15-Oct-98	PVC	583	560	168	166	2	1.2	X	
7AV85-1	10-Nov-98	PVC	365	350	168	160	8	4.8	X	
7AW83-1	10-Nov-98	PVC	365	350	168	161	7	4.2	X	
7AU88-2	10-Nov-98	PVC	565	550	168	158	10	6.0	X	
7AV97-1	10-Nov-98	PVC	610	600	168	154	14	8.3	X	
7AV98-1	10-Nov-98	PVC	620	610	168	162	6	3.6	X	
7AU98-1	11-Nov-98	PVC	598	580	168	160	8	4.8	X	
7AT98-1	11-Nov-98	PVC	600	590	168	159	9	5.4	X	
7AT100-2	12-Nov-98	PVC	595	580	168	161	7	4.2	X	
7AT97-1	12-Nov-98	PVC	600	580	168	160	8	4.8	X	
7AU93-2	17-Nov-98	PVC	571	550	168	164	4	2.4	X	
7AV101-1	17-Nov-98	PVC	620	610	168	158	10	6.0	X	
7AU100-1	17-Nov-98	PVC	605	590	168	157	11	6.5	X	
7AU102-2	17-Nov-98	PVC	612	600	168	154	14	8.3	X	
7AU102-1	17-Nov-98	PVC	606	590	168	162	6	3.6	X	
7AT102-1	18-Nov-98	PVC	587	570	168	159	9	5.4	X	
7AT105-2	18-Nov-98	PVC	572	550	168	153	15	8.9	X	
7AU103-3	18-Nov-98	PVC	605	590	168	158	10	6.0	X	
7AT103-1	18-Nov-98	PVC	579	570	168	159	9	5.4	X	
7AW88-3	18-Nov-98	PVC	380	370	168	165	3	1.8	X	
7AW87-2	18-Nov-98	PVC	363	350	168	166	2	1.2	X	
7BI88-1	23-Nov-98	PVC	565	550	168	160	8	4.8	X	
7BJ86-1	23-Nov-98	PVC	563	550	168	161	7	4.2	X	
7BI84-1	23-Nov-98	PVC	562	550	168	156	12	7.1	X	
7BI85-2	23-Nov-98	PVC	560	550	168	164	4	2.4	X	

APPENDIX 2

Individual Monitor and Trend Well Analytical Data

APPENDIX B INDEX
INDIVIDUAL MONITOR and TREND WELL ANALYTICAL DATA

IRIGARAY RANCH
Monitor Wells

Perimeter Ore Zone					
Well No.	Location	Page No.	Well No.	Location	Page No.
M2	Mine Unit 2	1	M27	Mine Unit 7	12
M4	Mine Unit 2	2	M28	Mine Unit 8	13
M7	Mine Unit 1	3	M29	Mine Unit 8	14
M10	Mine Unit 4	4	M30	Mine Unit 9	15
M17	Mine Unit 1	5	M31	Mine Unit 9	16
M18	Mine Unit 1	6	M32	Mine Unit 9	17
M19	Mine Unit 3	7	M33	Mine Unit 9	18
M23	Mine Unit 5	8	T31	Mine Unit 1	19
M24	Mine Unit 6	9	RS27	Mine Unit 5	20
M25	Mine Unit 6	10	16-151	Mine Unit 9	21
M26	Mine Unit 7	11			
Shallow Sand					
SSM2	Mine Unit 1	22	SSM19	Mine Unit 8	33
SSM3	Mine Unit 2	23	SSM34	Mine Unit 9	34
SSM4	Mine Unit 2	24	SSM35	Mine Unit 9	35
SSM5	Mine Unit 3	25	SSM36	Mine Unit 9	36
SSM6	Mine Unit 4	26	SSM37	Mine Unit 7	37
SSM7	Mine Unit 5	27	SSM38	Mine Unit 7	38
SSM8	Mine Unit 5	28	SSM39	Mine Unit 7	39
SSM9	Mine Unit 6	29	SSM40	Mine Unit 8	40
SSM10	Mine Unit 6	30	SSM41	Mine Unit 4	41
SSM11	Mine Unit 6	31	SSM42	Mine Unit 3	42
SSM18	Mine Unit 8	32	SSM43	Mine Unit 1	43
Deep Sand					
DM1	Mine Unit 1	44	DM14	Mine Unit 8	53
DM2	Mine Unit 1	45	DM15	Mine Unit 9	54
DM3	Mine Unit 2	46	DM16	Mine Unit 9	55
DM4	Mine Unit 4	47	DM17	Mine Unit 5	56
DM5	Mine Unit 2	48	DM18	Mine Unit 4	57
DM9	Mine Unit 5	49	DM19	Mine Unit 3	58
DM10	Mine Unit 6	50	DM20	Mine Unit 3	59
DM11	Mine Unit 7	51	DM21	Mine Unit 7	60
DM13	Mine Unit 8	52	DM22	Mine Unit 6	61

APPENDIX B INDEX
INDIVIDUAL MONITOR and TREND WELL ANALYTICAL DATA

IRIGARAY RANCH
Trend Wells

Well No.	Location	Page No.	Well No.	Location	Page No.
Interior Coal Zone					
RS19	Mine Unit 3	62	SM1	Mine Unit 1	65
RS34	Mine Unit 2	63	SM2	Mine Unit 1	66
RS39	Mine Unit 3	64	SM7	Mine Unit 2	67

APPENDIX B INDEX
INDIVIDUAL MONITOR and TREND WELL ANALYTICAL DATA

CHRISTENSEN RANCH
Monitor Wells

Perimeter Ore Zone					
Well No.	Location	Page No.	Well No.	Location	Page No.
MW17-2	Mine Unit 3	68	MW87	Mine Unit 2	110
MW18	Mine Unit 3	69	MW88	Mine Unit 2	111
MW19	Mine Unit 3	70	MW89	Mine Unit 2	112
MW20	Mine Unit 3	71	MW90	Mine Unit 2	113
MW23	Mine Unit 3	72	MW101	Mine Unit 2	114
MW24	Mine Unit 3	73	MW102	Mine Unit 2	115
MW25	Mine Unit 3	74	MW103	Mine Unit 2	116
MW26	Mine Unit 3	75	MW104	Mine Unit 2	117
MW27	Mine Unit 3	76	MW105	Mine Unit 2	118
MW28	Mine Unit 3	77	MW106	Mine Unit 2	119
MW29	Mine Unit 3	78	MW107	Mine Unit 2	120
MW30	Mine Unit 3	79	MW108	Mine Unit 2	121
MW31	Mine Unit 3	80	MW109	Mine Unit 2	122
MW32	Mine Unit 3	81	MW110	Mine Unit 2	123
MW35	Mine Unit 3	82	MW111	Mine Unit 2	124
MW36	Mine Unit 3	83	MW114	Mine Unit 3	125
MW37	Mine Unit 3	84	MW115	Mine Unit 3	126
MW38	Mine Unit 3	85	MW116	Mine Unit 3	127
MW39	Mine Unit 3	86	4MW-1	Mine Unit 4	128
MW40	Mine Unit 3	87	4MW-2	Mine Unit 4	129
MW41	Mine Unit 3	88	4MW-3	Mine Unit 4	130
MW42	Mine Unit 3	89	4MW-4	Mine Unit 4	131
MW43	Mine Unit 3	90	4MW-5	Mine Unit 4	132
MW44	Mine Unit 3	91	4MW-6	Mine Unit 4	133
MW45	Mine Unit 3	92	4MW-7	Mine Unit 4	134
MW62	Mine Unit 3	93	4MW-8	Mine Unit 4	135
MW63	Mine Unit 3	94	4MW-9	Mine Unit 4	136
MW64	Mine Unit 3	95	4MW-10	Mine Unit 4	137
MW73	Mine Unit 2	96	4MW-11	Mine Unit 4	138
MW74	Mine Unit 2	97	4MW-12	Mine Unit 4	139
MW75	Mine Unit 2	98	4MW-13	Mine Unit 4	140
MW76	Mine Unit 2	99	4MW-14	Mine Unit 4	141
MW77	Mine Unit 2	100	4MW-15	Mine Unit 4	142
MW78	Mine Unit 2	101	4MW-16	Mine Unit 4	143
MW79	Mine Unit 2	102	4MW-17	Mine Unit 4	144
MW80	Mine Unit 2	103	4MW-18	Mine Unit 4	145
MW81	Mine Unit 2	104	4MW-19	Mine Unit 4	146
MW82	Mine Unit 2	105	4MW-20	Mine Unit 4	147
MW83	Mine Unit 2	106	4MW-21	Mine Unit 4	148
MW84	Mine Unit 2	107	4MW-22	Mine Unit 4	149
MW85	Mine Unit 2	108	4MW-23	Mine Unit 4	150
MW86	Mine Unit 2	109	4MW-24	Mine Unit 4	151

APPENDIX B INDEX
INDIVIDUAL MONITOR and TREND WELL ANALYTICAL DATA

CHRISTENSEN RANCH
Monitor Wells

Perimeter Ore Zone (cont.)					
4MW-25	Mine Unit 4	152	5MW57	Mine Unit 5	194
5MW1	Mine Unit 5	153	5MW58	Mine Unit 5	195
5MW2	Mine Unit 5	154	5MW59	Mine Unit 5	196
5MW3	Mine Unit 5	155	5MW60	Mine Unit 5	197
5MW4	Mine Unit 5	156	5MW61	Mine Unit 5	198
5MW5	Mine Unit 5	157	5MW62	Mine Unit 5	199
5MW6	Mine Unit 5	158	5MW63	Mine Unit 5	200
5MW7	Mine Unit 5	159	5MW64	Mine Unit 5	201
5MW8	Mine Unit 5	160	5MW65	Mine Unit 5	202
5MW10	Mine Unit 5	161	5MW66	Mine Unit 5	203
5MW12	Mine Unit 5	162	5MW67	Mine Unit 5	204
5MW14	Mine Unit 5	163	5MW69	Mine Unit 5	205
5MW16	Mine Unit 5	164	6MW17-2	Mine Unit 6	206
5MW18	Mine Unit 5	165	6MW19	Mine Unit 6	207
5MW20	Mine Unit 5	166	6MW21	Mine Unit 6	208
5MW30A	Mine Unit 5	167	6MW23	Mine Unit 6	209
5MW31	Mine Unit 5	168	6MW25	Mine Unit 6	210
5MW32A	Mine Unit 5	169	6MW27	Mine Unit 6	211
5MW33	Mine Unit 5	170	6MW29	Mine Unit 6	212
5MW34	Mine Unit 5	171	6MW31	Mine Unit 6	213
5MW35A	Mine Unit 5	172	6MW33	Mine Unit 6	214
5MW36	Mine Unit 5	173	6MW34	Mine Unit 6	215
5MW37	Mine Unit 5	174	6MW35	Mine Unit 6	216
5MW38	Mine Unit 5	175	6MW36	Mine Unit 6	217
5MW39A	Mine Unit 5	176	6MW37	Mine Unit 6	218
5MW40	Mine Unit 5	177	6MW38	Mine Unit 6	219
5MW41A	Mine Unit 5	178	6MW39	Mine Unit 6	220
5MW42	Mine Unit 5	179	6MW40	Mine Unit 6	221
5MW43	Mine Unit 5	180	6MW41	Mine Unit 6	222
5MW44	Mine Unit 5	181	6MW42	Mine Unit 6	223
5MW45	Mine Unit 5	182	6MW43	Mine Unit 6	224
5MW46	Mine Unit 5	183	6MW44	Mine Unit 6	225
5MW47B	Mine Unit 5	184	6MW45	Mine Unit 6	226
5MW48	Mine Unit 5	185	6MW46	Mine Unit 6	227
5MW49	Mine Unit 5	186	6MW47	Mine Unit 6	228
5MW50	Mine Unit 5	187	6MW48-3	Mine Unit 6	229
5MW51	Mine Unit 5	188	6MW49	Mine Unit 6	230
5MW52	Mine Unit 5	189	6MW50	Mine Unit 6	231
5MW53	Mine Unit 5	190	6MW51	Mine Unit 6	232
5MW54	Mine Unit 5	191	6MW52	Mine Unit 6	233
5MW55	Mine Unit 5	192	6MW53	Mine Unit 6	234
5MW56	Mine Unit 5	193	6MW54	Mine Unit 6	235

APPENDIX B INDEX
INDIVIDUAL MONITOR and TREND WELL ANALYTICAL DATA

CHRISTENSEN RANCH
Monitor Wells

Shallow Sand					
MW-11S	Mine Unit 5	236	4SRM-07	Mine Unit 4	258
MW46S	Mine Unit 3	237	5SM-1	Mine Unit 5	259
MW48S	Mine Unit 3	238	5SM2	Mine Unit 5	260
MW50S	Mine Unit 3	239	5SM3	Mine Unit 5	261
MW52S	Mine Unit 3	240	5SM5	Mine Unit 5	262
MW54S	Mine Unit 3	241	5SM6	Mine Unit 5	263
MW56S	Mine Unit 3	242	5SM7	Mine Unit 5	264
MW58S	Mine Unit 3	243	WCOW-04	Mine Unit 5	265
MW66S-2	Mine Unit 3	244	6SM1	Mine Unit 6	266
MW68S	Mine Unit 2	245	6SM2	Mine Unit 6	267
MW70S	Mine Unit 2	246	6SM3	Mine Unit 6	268
MW72S	Mine Unit 2	247	6SM4	Mine Unit 6	269
MW92S	Mine Unit 2	248	6SM5	Mine Unit 6	270
MW94S	Mine Unit 2	249	6SM6	Mine Unit 6	271
MW96S	Mine Unit 2	250	6SM7	Mine Unit 6	272
MW98S	Mine Unit 2	251	6SM8	Mine Unit 6	273
MW100S	Mine Unit 2	252	6SM9	Mine Unit 6	274
MW112S	Mine Unit 2	253	6SM10	Mine Unit 6	275
MW117S	Mine Unit 2	254	6SM11	Mine Unit 6	276
4SM-1	Mine Unit 4	255	6SM12	Mine Unit 6	277
4SM-4	Mine Unit 4	256	6SM13	Mine Unit 6	278
4SM-8	Mine Unit 4	257	6SM14	Mine Unit 6	279

APPENDIX B INDEX
INDIVIDUAL MONITOR and TREND WELL ANALYTICAL DATA

CHRISTENSEN RANCH
Monitor Wells

Deep Sand					
MW-12D	Mine Unit 5	280	5DM1A	Mine Unit 5	302
MW45D	Mine Unit 3	281	5DM2	Mine Unit 5	303
MW47D	Mine Unit 3	282	5DM3	Mine Unit 5	304
MW49D	Mine Unit 3	283	5DM4	Mine Unit 5	305
MW51D	Mine Unit 3	284	5DM5	Mine Unit 5	306
MW53D	Mine Unit 3	285	5DM7	Mine Unit 5	307
MW55D	Mine Unit 3	286	WCOW-37D	Mine Unit 5	308
MW57D	Mine Unit 3	287	6DM1	Mine Unit 6	309
MW65D	Mine Unit 3	288	6DM2	Mine Unit 6	310
MW67D	Mine Unit 2	289	6DM3-2	Mine Unit 6	311
MW69D	Mine Unit 2	290	6DM4-2	Mine Unit 6	312
MW71D	Mine Unit 2	291	6DM5	Mine Unit 6	313
MW91D	Mine Unit 2	292	6DM6	Mine Unit 6	314
MW93D	Mine Unit 2	293	6DM7	Mine Unit 6	315
MW95D	Mine Unit 2	294	6DM8	Mine Unit 6	316
MW97D	Mine Unit 2	295	6DM9	Mine Unit 6	317
MW99D	Mine Unit 2	296	6DM10	Mine Unit 6	318
MW113D	Mine Unit 2	297	6DM11	Mine Unit 6	319
4DM-1	Mine Unit 4	298	6DM12	Mine Unit 6	320
4DM-4	Mine Unit 4	299	6DM13	Mine Unit 6	321
4DM-8	Mine Unit 4	300	6DM14	Mine Unit 6	322
4DRM-07	Mine Unit 4	301			

**APPENDIX B INDEX
INDIVIDUAL MONITOR and TREND WELL ANALYTICAL DATA**

**CHRISTENSEN RANCH
Trend Wells**

Perimeter Ore Zone					
Well No.	Location	Page No.	Well No.	Location	Page No.
MW78T	Mine Unit 2	323	6TW2	Mine Unit 6	327
MW87T	Mine Unit 2	324	6TW3	Mine Unit 6	328
5TW-1	Mine Unit 5	325	6TW4	Mine Unit 6	329
6TW1	Mine Unit 6	326	6TW5	Mine Unit 6	330
Deep Sand					
5DM8T	Mine Unit 5	331	6DT1	Mine Unit 6	333
5DM9T	Mine Unit 5	332			

**IRIGARAY RANCH
5I7 and USMT Sites**

Monitor Well Analysis					
Well No.	Location	Page No.	Well No.	Location	Page No.
	5I7/USMT	334			

IRIGARAY RANCH

PERIMETER ORE ZONE MONITOR WELLS

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 2

PERIMETER ORE ZONE MONITOR WELL

Well I.D. M2

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	18	685	131.1			

Date

19-AUG-98	11.4	629	93.5	8.6		4253.3
08-DEC-98	12.6	657	88.5	8.7		4267.0

* Values Exceed Upper Control Limit

M2

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 2

PERIMETER ORE ZONE MONITOR WELL

2nd Half, 1998

Well I.D. M4

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	18.1	671	100.4			

Date

19-AUG-98	10.6	949 *	85.2	8.5		4276.8
11-NOV-98	10.5	927 *	84.3	8.6		4296.1

* Values Exceed Upper Control Limit

M4

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 1

PERIMETER ORE ZONE MONITOR WELL

Well I.D. M7

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	17.5	679	109.8			

Date

19-AUG-98	11.3	1910 *	99.0	8.1		4282.6
01-DEC-98	11.2	1916 *	97.0	8.0		4295.9

* Values Exceed Upper Control Limit

M7

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 4

PERIMETER ORE ZONE MONITOR WELL

2nd Half, 1998

Well I.D. M10

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	17.5	701	132.3			

Date

08-JUL-98	12.2	620	98.5	8.8		4260.1
12-AUG-98	12.0	615	92.8	8.7		4261.0
09-SEP-98	11.8	619	94.1	8.8		4269.0
14-OCT-98	12.4	617	97.5	8.7		4278.1
23-NOV-98	13.1	613	100.0	8.4		4284.4
15-DEC-98	12.3	610	96.4	8.7		4280.9

* Values Exceed Upper Control Limit

M10

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 1

PERIMETER ORE ZONE MONITOR WELL

Well I.D. M17

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	17.1	724	112.9			

Date

19-AUG-98	9.8	649	88.7	8.6		4268.0
11-NOV-98	9.7	644	87.6	8.7		4290.4

* Values Exceed Upper Control Limit

M17

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 1

PERIMETER ORE ZONE MONITOR WELL

Well I.D. M18

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	17	719	111.7			

Date

19-AUG-98	10.9	1426 *	89.7	8.2		4280.2
01-DEC-98	10.7	1423 *	86.1	8.3		4294.9

* Values Exceed Upper Control Limit

M18

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 3

PERIMETER ORE ZONE MONITOR WELL

Well I.D. M19

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	17	651	116.7			

Date

14-JUL-98	11.3	618	96.2	8.5		4272.7
12-AUG-98	11.1	624	88.5	8.6		4275.1
09-SEP-98	11.1	646	88.8	8.7		4279.9
14-OCT-98	11.0	628	88.7	8.6		4292.8
11-NOV-98	10.9	624	89.7	8.7		4296.8
15-DEC-98	11.6	621	93.8	8.6		4290.6

* Values Exceed Upper Control Limit

M19

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. M23

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	17	614	106.6			

Date

14-JUL-98	10.9	610	93.7	8.6		4274.1
12-AUG-98	10.8	610	89.4	8.8		4276.8
09-SEP-98	10.9	622 *	88.9	8.8		4282.9
14-OCT-98	11.0	617 *	90.0	8.6		4296.0
11-NOV-98	11.1	613	91.5	8.8		4299.9
15-DEC-98	11.3	605	93.2	8.7		4292.1

* Values Exceed Upper Control Limit

M23

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 6

PERIMETER ORE ZONE MONITOR WELL

Well I.D. M24

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	14.5	632	119.4			

Date

07-JUL-98	9.1	503	113.7	8.8		4279.7
05-AUG-98	9.0	501	112.7	8.8		4277.4
01-SEP-98	8.9	501	106.4	8.8		4285.6
07-OCT-98	8.9	501	109.7	8.7		4295.5
11-NOV-98	8.6	496	108.6	8.8		4300.7
08-DEC-98	9.0	496	110.9	8.8		4291.6

* Values Exceed Upper Control Limit

M24

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 6

PERIMETER ORE ZONE MONITOR WELL

Well I.D. M25

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	15.5	692	111.9			

Date

08-JUL-98	10.9	602	96.5	8.8		4263.4
05-AUG-98	11.1	603	97.2	8.7		4262.6
01-SEP-98	10.9	602	90.4	8.7		4278.3
07-OCT-98	11.1	603	94.9	8.6		4286.7
12-NOV-98	10.7	601	90.5	8.4		4292.3
08-DEC-98	10.9	592	94.4	8.6		4281.8

* Values Exceed Upper Control Limit

M25

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 7

PERIMETER ORE ZONE MONITOR WELL

Well I.D. M26

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	14.6	596	113.9			

Date

07-JUL-98	9.6	542	102.6	8.6		4280.5
05-AUG-98	9.8	547	102.6	8.8		4277.8
01-SEP-98	9.7	543	96.7	8.8		4285.2
07-OCT-98	9.8	542	101.6	8.7		4293.6
11-NOV-98	9.8	542	101.6	8.7		4298.6
08-DEC-98	9.8	532	102.2	8.7		4284.9

* Values Exceed Upper Control Limit

M26

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 7

PERIMETER ORE ZONE MONITOR WELL

Well I.D. M27

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	15.2	625	105.8			

Date

07-JUL-98	11.2	609	97.6	8.6		4272.6
11-AUG-98	10.7	609	89.2	8.7		4270.2
01-SEP-98	10.9	607	90.7	8.6		4280.0
07-OCT-98	11.1	608	94.8	8.5		4288.8
12-NOV-98	10.8	604	91.3	8.4		4293.8
09-DEC-98	11.6	604	96.2	8.4		4275.9

* Values Exceed Upper Control Limit

M27

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 8

PERIMETER ORE ZONE MONITOR WELL

Well I.D. M28

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	15.5	715	110.9			

Date

07-JUL-98	11.3	628	94.5	8.4		4287.4
05-AUG-98	11.3	628	94.2	8.7		4285.9
01-SEP-98	11.1	626	89.2	8.4		4291.6
07-OCT-98	11.2	628	92.0	8.6		4298.7
11-NOV-98	10.9	620	92.4	8.7		4303.2
08-DEC-98	11.0	616	92.2	8.6		4280.8

* Values Exceed Upper Control Limit

M28

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 8

PERIMETER ORE ZONE MONITOR WELL

Well I.D. M29

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	16.1	702	109.8			

Date

07-JUL-98	11.3	619	97.4	8.6		4281.8
11-AUG-98	10.6	618	88.6	8.7		4280.2
01-SEP-98	11.2	619	92.1	8.7		4287.5
07-OCT-98	11.3	624	94.5	8.6		4295.5
12-NOV-98	10.9	621	91.5	8.5		4300.3
09-DEC-98	11.5	611	95.6	8.5		4277.3

* Values Exceed Upper Control Limit

M29

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 9

PERIMETER ORE ZONE MONITOR WELL

Well I.D. M30

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	15.2	704	105.5			

Date

07-JUL-98	11.2	629	94.4	8.5		4293.3
05-AUG-98	11.2	628	95.9	8.7		4293.2
01-SEP-98	11.1	626	89.5	8.6		4296.9
07-OCT-98	11.3	626	93.1	8.6		4302.6
11-NOV-98	11.0	620	93.7	8.8		4306.5
08-DEC-98	11.1	619	92.4	8.7		4284.2

* Values Exceed Upper Control Limit

M30

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 9

PERIMETER ORE ZONE MONITOR WELL

Well I.D. M31

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	15.6	690	107.2			

Date

07-JUL-98	10.6	581	97.3	8.7		4286.5
11-AUG-98	13.2	634	101.0	8.4		4285.7
01-SEP-98	13.6	632	101.1	8.5		4291.0
07-OCT-98	10.4	637	98.2	8.3		4298.4
12-NOV-98	13.6	626	107.2	8.1		4302.7
09-DEC-98	13.5	622	102.3	8.3		4276.0

* Values Exceed Upper Control Limit

M31

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 9

PERIMETER ORE ZONE MONITOR WELL

Well I.D. M32

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	16.1	707	107.4			

Date

07-JUL-98	11.3	627	95.2	8.6		4297.6
05-AUG-98	11.2	627	96.9	8.7		4297.8
01-SEP-98	11.0	625	89.9	8.6		4300.8
07-OCT-98	11.2	626	93.9	8.6		4305.5
11-NOV-98	11.0	618	94.3	8.7		4309.2
08-DEC-98	11.0	618	92.2	8.7		4293.9

* Values Exceed Upper Control Limit

M32

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 9

PERIMETER ORE ZONE MONITOR WELL

Well I.D. M33

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	15.9	686	112			

Date

07-JUL-98	11.2	617	96.8	8.5		4287.8
11-AUG-98	10.7	617	89.2	8.7		4287.7
01-SEP-98	11.2	615	91.8	8.6		4291.9
07-OCT-98	11.1	616	94.6	8.5		4298.0
12-NOV-98	10.8	611	90.8	8.4		4302.1
09-DEC-98	11.5	611	95.4	8.4		4280.0

* Values Exceed Upper Control Limit

M33

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 1

PERIMETER ORE ZONE MONITOR WELL

Well I.D. T31

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	21.8	779	106.1			

Date

19-AUG-98	14.1	687	88.0	8.5		4253.8
01-DEC-98	14.6	686	88.5	8.6		4278.5

* Values Exceed Upper Control Limit

T31

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

2nd Half, 1998

Well I.D. RS27

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	16.9	646	101.2			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
08-JUL-98	11.3	629	97.7	8.7	4264.9
12-AUG-98	11.0	629	91.9	8.6	4265.1
09-SEP-98	11.0	627	93.0	8.6	4276.0
14-OCT-98	11.2	621	94.2	8.6	4287.8
23-NOV-98	11.7	619	95.7	8.3	4290.4
15-DEC-98	11.6	620	94.7	8.5	4284.4

* Values Exceed Upper Control Limit

Negative U308 Grades Indicate Less Than Detection Limit.

RS27

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 9

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 16-151

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	16	702	110.2			

Date

07-JUL-98	11.3	606	94.6	8.6		4293.8
11-AUG-98	10.7	607	86.4	8.8		4294.0
01-SEP-98	11.1	608	88.5	8.6		4420.7
07-OCT-98	11.2	607	91.7	8.5		4303.1
12-NOV-98	10.9	602	88.8	8.5		4307.0
09-DEC-98	11.6	604	91.2	8.4		4286.5

* Values Exceed Upper Control Limit

16-151

Negative U3O8 Grades Indicate Less Than Detection Limit.

IRIGARAY RANCH
INTERIOR SHALLOW SAND MONITOR WELLS

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 1

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. SSM2

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	20.3	2075	128.4			

Date

19-AUG-98	22.9	*	1937	107.4	8.0	4303.4
01-DEC-98	22.0	*	1894	106.4	7.9	4305.9

* Values Exceed Upper Control Limit

SSM2

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 2

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. SSM3

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	38.5	1451	219.1			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
01-JUL-98	51.6 *	1723 *	159.6	7.9	-1	4305.2
07-JUL-98	50.6 *	1678 *	157.4	7.7	-1	4305.6
14-JUL-98	50.6 *	1703 *	160.9	7.8	-1	4305.7
21-JUL-98	48.2 *	1689 *	155.3	7.9	-1	4305.6
28-JUL-98	51.1 *	1710 *	156.6	7.8	-1	4305.4
04-AUG-98	47.9 *	1695 *	155.9	7.7	-1	4305.8
11-AUG-98	49.9 *	1714 *	147.5	7.9	-1	4305.8
18-AUG-98	50.9 *	1710 *	153.5	7.8	-1	4305.8
27-AUG-98	51.4 *	1710 *	161.2	7.8	-1	4305.8
01-SEP-98	50.2 *	1696 *	151.9	7.8	-1	4305.8
08-SEP-98	50.5 *	1709 *	156.5	7.8	-1	4306.0
15-SEP-98	50.5 *	1679 *	152.1	7.7	-1	4306.5
23-SEP-98	51.8 *	1712 *	156.3	7.7	-1	4306.8
28-SEP-98	51.5 *	1730 *	150.5	7.7	-1	4306.9
04-NOV-98	51.7 *	1709 *	154.3	7.7	-1	4308.3
11-NOV-98	52.1 *	1715 *	156.3	7.9	-1	4308.5
17-NOV-98	55.3 *	1730 *	155.6	7.9	-1	4308.0
23-NOV-98	54.4 *	1722 *	155.9	7.8	-1	4308.6
01-DEC-98	51.1 *	1720 *	155.8	7.9	-1	4308.7
08-DEC-98	52.6 *	1713 *	154.6	7.9	-1	4308.6
14-DEC-98	52.8 *	1716 *	163.6	7.9	-1	4308.5
21-DEC-98	54.8 *	1711 *	155.8	7.8	-1	4308.4
28-DEC-98	52.4 *	1719 *	164.4	7.8	-1	4308.6

* Values Exceed Upper Control Limit

SSM3

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 2

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. SSM4

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	23.5	883	275.5			

Date

20-AUG-98	16.7	654	196.3	8.2		4298.1
01-DEC-98	4.4	385	90.0	8.1		4301.1
03-DEC-98	15.4	616	192.0	8.2		4301.2

* Values Exceed Upper Control Limit

SSM4

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 3

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. SSM5

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	21.5	825	254.9			

Date

19-AUG-98	14.4	716	221.2	8.1		4302.6
01-DEC-98	14.0	703	217.3	8.1		4307.1

* Values Exceed Upper Control Limit

SSM5

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 4

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. SSM6

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	16.3	2445	122.2			

Date

14-JUL-98	11.6	2073	99.4	7.9	4305.0
12-AUG-98	10.9	2074	96.1	8.0	4305.0
09-SEP-98	10.9	2087	95.1	7.9	4305.6
13-OCT-98	11.0	2067	95.5	7.9	4307.1
17-NOV-98	11.6	2067	97.3	7.9	4307.0
15-DEC-98	11.6	2059	98.0	7.8	4307.9

* Values Exceed Upper Control Limit

SSM6

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 5

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. SSM7

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	17.1	2604	119.4			

Date

14-JUL-98	12.2	2313	98.3	7.9		4305.7
12-AUG-98	11.6	2315	94.3	7.9		4306.0
02-SEP-98	12.1	2307	98.7	7.9		4306.1
13-OCT-98	11.9	2288	98.4	7.9		4307.3
17-NOV-98	12.6	2303	98.4	7.8		4308.0
15-DEC-98	12.7	2296	98.2	7.8		4308.4

* Values Exceed Upper Control Limit

SSM7

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 5

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. SSM8

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	16.6	2389	112.2			

Date

14-JUL-98	11.1	1992	96.3	7.9		4305.5
12-AUG-98	10.3	1990	89.2	8.1		4305.8
08-SEP-98	11.1	1997	94.4	8.0		4305.8
13-OCT-98	11.1	1985	92.5	8.0		4307.0
17-NOV-98	11.5	1992	93.2	8.0		4308.0
15-DEC-98	11.9	1985	95.3	7.9		4308.2

* Values Exceed Upper Control Limit

SSM8

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 6

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. SSM9

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	15	2008	117.8			

Date

08-JUL-98	9.3	1537	97.8	8.0		4308.2
12-AUG-98	9.5	1530	98.8	8.1		4308.5
02-SEP-98	9.4	1535	95.8	8.0		4308.7
08-OCT-98	9.1	1542	91.7	8.0		4309.8
05-NOV-98	9.1	1530	95.6	7.9		4310.7
14-DEC-98	9.5	1520	101.7	7.9		4310.8

* Values Exceed Upper Control Limit

SSM9

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 6

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. SSM10

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	15.5	1955	177.4			

Date

08-JUL-98	12.4	1661	118.3	8.0	4308.2
11-AUG-98	11.8	1651	106.6	8.0	4308.3
02-SEP-98	12.2	1632	115.6	7.9	4308.1
08-OCT-98	12.2	1633	109.4	8.0	4309.2
05-NOV-98	11.8	1617	113.0	7.9	4310.1
14-DEC-98	11.9	1603	117.7	8.0	4310.7

* Values Exceed Upper Control Limit

SSM10

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 6

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. SSM11

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	16.2	2784	122.9			

Date

08-JUL-98	12.4	2410	97.3	7.9	4309.7
11-AUG-98	12.4	2432	89.0	7.9	4310.0
02-SEP-98	12.7	2411	96.2	7.9	4309.8
08-OCT-98	11.9	2390	90.4	7.9	4311.0
11-NOV-98	12.1	2365	92.6	7.9	4312.4
14-DEC-98	12.4	2382	98.7	7.8	4312.2

* Values Exceed Upper Control Limit

SSM11

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 8

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. SSM18

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	14.7	1849	119.4			

Date

01-JUL-98	20.5	*	1734	163.9	*	7.8	-1	4309.0
07-JUL-98	20.4	*	1728	165.2	*	7.7	-1	4309.7
14-JUL-98	21.1	*	1738	167.8	*	7.9	-1	4309.8
21-JUL-98	18.9	*	1721	156.6	*	7.9	-1	4309.7
28-JUL-98	20.8	*	1733	162.8	*	8.2	-1	4309.2
04-AUG-98	19.2	*	1728	158.1	*	8.2	-1	4309.8
11-AUG-98	20.3	*	1743	152.9	*	8.1	-1	4309.8
18-AUG-98	20.7	*	1733	157.9	*	8.0	-1	4309.9
25-AUG-98	21.1	*	1743	159.9	*	8.0	-1	4309.9
01-SEP-98	20.7	*	1726	153.8	*	7.9	-1	4309.9
08-SEP-98	21.1	*	1748	163.0	*	8.0	-1	4310.0
15-SEP-98	20.7	*	1743	158.8	*	8.3	-1	4310.4
23-SEP-98	19.9	*	1730	156.4	*	7.9	-1	4310.7
28-SEP-98	20.5	*	1754	156.1	*	7.9	-1	4310.7
04-NOV-98	19.9	*	1723	155.0	*	7.6	-1	4311.8
11-NOV-98	20.3	*	1726	158.8	*	7.8	-1	4312.1
17-NOV-98	20.9	*	1731	157.7	*	7.8	-1	4312.0
23-NOV-98	21.2	*	1741	159.1	*	7.6	-1	4312.2
01-DEC-98	19.9	*	1725	156.8	*	7.7	-1	4312.2
08-DEC-98	19.9	*	1710	153.9	*	7.8	-1	4312.1
14-DEC-98	20.0	*	1730	162.2	*	7.8	-1	4312.0
21-DEC-98	21.1	*	1721	158.4	*	7.7	-1	4312.0
28-DEC-98	19.4	*	1713	160.6	*	7.7	-1	4312.0

* Values Exceed Upper Control Limit

SSM18

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 8

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. SSM19

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.7	1636	114.1			

Date

08-JUL-98	9.2	1488	92.3	8.3		4309.9
11-AUG-98	8.9	1495	84.0	8.2		4310.0
02-SEP-98	9.0	1487	91.9	8.2		4310.0
08-OCT-98	9.0	1497	88.0	8.2		4311.2
05-NOV-98	9.1	1486	90.2	8.2		4312.0
09-DEC-98	9.6	1488	91.3	8.1		4312.1

* Values Exceed Upper Control Limit

SSM19

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 9

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. SSM34

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.2	1698	110.4			

Date

08-JUL-98	9.1	1225	94.5	8.4	4309.2
11-AUG-98	8.8	1233	88.0	8.2	4309.3
02-SEP-98	9.2	1229	95.1	8.1	4309.4
08-OCT-98	9.0	1226	89.7	8.0	4310.5
05-NOV-98	8.9	1224	94.1	8.1	4311.3
09-DEC-98	9.3	1224	93.1	8.0	4311.5

* Values Exceed Upper Control Limit

SSM34

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 9

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. SSM35

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	14.4	1688	132.7			

Date

08-JUL-98	9.2	1261	105.2	8.1		4309.8
11-AUG-98	8.9	1269	98.2	8.3		4309.9
02-SEP-98	9.0	1265	104.2	8.1		4310.0
08-OCT-98	8.7	1266	100.0	8.1		4311.2
05-NOV-98	8.8	1250	102.8	8.1		4311.8
09-DEC-98	9.3	1262	103.5	8.1		4312.0

* Values Exceed Upper Control Limit

SSM35

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 9

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. SSM36

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.7	1565	119.6			

Date

08-JUL-98	9.0	1279	104.2	8.5		4311.5
11-AUG-98	8.4	1281	96.4	8.3		4311.6
02-SEP-98	8.9	1276	103.2	8.2		4311.8
07-OCT-98	8.9	1277	102.6	8.1		4312.6
05-NOV-98	8.5	1273	102.0	8.2		4313.4
09-DEC-98	9.1	1275	101.6	8.1		4313.5

* Values Exceed Upper Control Limit

SSM36

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 7

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. SSM37

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	14.3	1813	120			

Date

08-JUL-98	10.7	1602	114.0	8.0		4305.7
12-AUG-98	9.8	1594	101.5	8.1		4305.8
02-SEP-98	10.5	1599	113.6	8.1		4305.9
08-OCT-98	10.4	1595	107.8	7.9		4307.0
05-NOV-98	10.4	1581	112.6	8.0		4307.9
14-DEC-98	10.4	1570	117.8	8.0		4308.0

* Values Exceed Upper Control Limit

SSM37

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 7

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. SSM38

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	16.2	2800	118.8			

Date

08-JUL-98	11.4	2215	101.1	8.0		4307.7
12-AUG-98	10.8	2264	98.2	8.0		4307.8
02-SEP-98	11.2	2230	100.1	8.0		4308.0
08-OCT-98	10.9	2254	97.2	7.9		4309.1
05-NOV-98	10.9	2213	99.1	7.9		4310.0
14-DEC-98	11.2	2228	105.2	7.9		4348.7

* Values Exceed Upper Control Limit

SSM38

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 7

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. SSM39

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	14.5	2071	104.4			

Date

08-JUL-98	12.7	1759	110.9	*	8.0	4306.3
11-AUG-98	12.2	1766	103.3		8.0	4306.4
02-SEP-98	12.8	1762	109.5	*	7.9	4306.5
08-OCT-98	12.4	1776	105.3	*	7.8	4307.7
05-NOV-98	12.3	1766	107.5	*	7.9	4308.5
14-DEC-98	12.4	1765	112.8	*	7.9	4364.7

* Values Exceed Upper Control Limit

SSM39

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 8

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. SSM40

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	µ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.6	1672	109.2			

Date

01-JUL-98	14.4	*	1452	118.0	*	8.1	-1	4311.3
07-JUL-98	15.3	*	1488	120.0	*	8.3	-1	4311.4
14-JUL-98	14.5	*	1422	117.1	*	8.3	-1	4311.5
21-JUL-98	13.3		1423	112.5	*	8.3	-1	4311.4
28-JUL-98	15.5	*	1436	115.5	*	8.4	-1	4310.5
04-AUG-98	13.4		1435	111.8	*	8.5	-1	4311.5
11-AUG-98	13.9	*	1435	107.6		8.4	-1	4311.6
18-AUG-98	15.2	*	1498	114.1	*	8.2	-1	4311.6
25-AUG-98	14.5	*	1446	112.4	*	8.3	-1	4311.6
01-SEP-98	14.3	*	1424	107.8		8.2	-1	4311.6
08-SEP-98	14.5	*	1444	113.2	*	8.5	-1	4311.7
15-SEP-98	14.4	*	1427	111.1	*	8.6	-1	4312.1
23-SEP-98	14.4	*	1443	114.3	*	8.3	-1	4312.3
28-SEP-98	14.3	*	1459	110.1	*	8.3	-1	4312.3
04-NOV-98	13.8	*	1417	111.6	*	8.0	-1	4313.5
11-NOV-98	15.0	*	1469	117.2	*	8.1	-1	4313.7
17-NOV-98	15.0	*	1441	114.6	*	8.1	-1	4313.0
23-NOV-98	15.1	*	1441	116.2	*	8.0	-1	4313.9
01-DEC-98	14.5	*	1449	115.2	*	8.1	-1	4313.9
08-DEC-98	14.3	*	1431	111.9	*	8.0	-1	4313.8
14-DEC-98	14.3	*	1435	118.6	*	8.0	-1	4313.8
21-DEC-98	15.5	*	1468	116.4	*	8.0	-1	4313.6
28-DEC-98	14.2	*	1437	118.6	*	8.0	-1	4313.7

* Values Exceed Upper Control Limit

SSM40

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 4

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. SSM41

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	24.9	2566	126.8			

Date

14-JUL-98	30.6	*	2385	125.2	7.9		4305.3
12-AUG-98	29.9	*	2381	120.8	7.9		4305.7
08-SEP-98	32.2	*	2393	126.4	7.9		4306.1
13-OCT-98	31.7	*	2384	125.4	7.8		4306.9
17-NOV-98	33.3	*	2380	128.1	7.8	-1	4308.0
18-NOV-98	32.9	*	2387	126.8	7.7	-1	4308.6
19-NOV-98	32.6	*	2341	128.5	7.7	-1	4308.5
23-NOV-98	33.6	*	2377	129.7	7.7	-1	4308.6
01-DEC-98	31.7	*	2383	128.1	7.5	-1	4308.6
08-DEC-98	31.7	*	2375	126.4	7.8	-1	4308.6
14-DEC-98	31.9	*	2378	132.7	7.8	-1	4308.5
21-DEC-98	33.9	*	2380	128.5	7.7	-1	4308.4
28-DEC-98	31.8	*	2379	134.7	7.7	-1	4308.5

* Values Exceed Upper Control Limit

SSM41

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 3

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. SSM42

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	23.3	1571	213.2			

Date

01-JUL-98	44.4	*	2234	*	123.9	7.9	-1	4301.8
07-JUL-98	43.3	*	2147	*	119.7	7.8	-1	4301.9
14-JUL-98	46.1	*	2225	*	125.4	7.8	-1	4302.2
21-JUL-98	43.2	*	2210	*	122.0	7.9	-1	4302.0
28-JUL-98	46.5	*	2228	*	122.5	8.0	-1	4302.0
04-AUG-98	41.7	*	2186	*	120.6	7.8	-1	4302.1
11-AUG-98	44.4	*	2226	*	115.9	7.8	-1	4302.2
18-AUG-98	45.8	*	2223	*	121.5	7.7	-1	4302.2
27-AUG-98	47.8	*	2249	*	128.0	7.7	-1	4301.9
01-SEP-98	50.0	*	2268	*	120.8	7.8	-1	4302.0
08-SEP-98	48.3	*	2258	*	123.6	7.8	-1	4302.2
15-SEP-98	46.0	*	2158	*	117.4	7.8	-1	4302.5
23-SEP-98	47.3	*	2229	*	124.5	7.7	-1	4302.7
28-SEP-98	48.4	*	2273	*	120.8	7.7	-1	4302.8
04-NOV-98	49.6	*	2205	*	124.6	7.7	-1	4303.9
11-NOV-98	51.7	*	2254	*	129.6	7.9	-1	4304.0
17-NOV-98	55.5	*	2277	*	130.1	7.9	-1	4304.0
23-NOV-98	57.2	*	2278	*	134.7	7.8	-1	4304.2
01-DEC-98	54.2	*	2281	*	133.7	7.9	-1	4304.3
08-DEC-98	55.9	*	2283	*	136.4	7.9	-1	4304.3
14-DEC-98	57.0	*	2283	*	144.8	7.9	-1	4304.2
21-DEC-98	58.2	*	2271	*	137.9	7.8	-1	4304.1
28-DEC-98	53.7	*	2266	*	141.7	7.8	-1	4304.2

* Values Exceed Upper Control Limit

SSM42

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 1

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. SSM43

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO_3		mg/l	msl
Upper Control Limit*	25.6	1456	170.4			

Date

01-JUL-98	35.8	*	1716	*	139.3	8.5	4304.1
07-JUL-98	34.6	*	1657	*	143.0	8.0	4304.4
14-JUL-98	35.9	*	1701	*	146.5	8.0	4304.4
21-JUL-98	33.0	*	1690	*	141.3	8.1	4304.4
28-JUL-98	36.5	*	1708	*	146.4	8.2	4304.4
04-AUG-98	33.0	*	1687	*	142.0	8.2	4304.6
11-AUG-98	34.5	*	1704	*	137.1	8.0	4304.6
18-AUG-98	35.4	*	1704	*	142.7	7.8	4304.6
25-AUG-98	35.3	*	1708	*	145.9	7.7	4304.6
01-SEP-98	35.7	*	1705	*	141.5	7.9	4304.6
08-SEP-98	35.5	*	1706	*	145.3	7.8	4304.7
15-SEP-98	34.8	*	1655	*	140.3	7.9	4305.2
23-SEP-98	35.2	*	1690	*	144.0	7.9	4305.6
28-SEP-98	35.2	*	1710	*	138.3	7.8	4305.7
04-NOV-98	35.2	*	1679	*	142.3	7.8	4307.0
11-NOV-98	35.1	*	1678	*	143.7	8.0	4307.2
17-NOV-98	37.3	*	1692	*	142.9	8.0	4307.0
23-NOV-98	37.0	*	1689	*	142.5	7.8	4307.3
01-DEC-98	35.1	*	1690	*	142.5	8.0	4307.4
08-DEC-98	34.7	*	1680	*	141.0	8.0	4307.3
14-DEC-98	35.1	*	1683	*	149.3	8.0	4307.2
21-DEC-98	37.3	*	1682	*	144.0	7.8	4307.1
28-DEC-98	34.8	*	1680	*	149.9	7.9	4307.3

* Values Exceed Upper Control Limit

SSM43

Negative U308 Grades Indicate Less Than Detection Limit.

IRIGARAY RANCH
INTERIOR DEEP SAND MONITOR WELLS

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 1

INTERIOR DEEP SAND MONITOR WELL

Well I.D. DM1

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	16.2	609	207.4			

Date

19-AUG-98	9.0	481	115.3	8.4		4298.4
01-DEC-98	9.4	478	119.5	8.5		4301.8

* Values Exceed Upper Control Limit

DM1

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 1

INTERIOR DEEP SAND MONITOR WELL

2nd Half, 1998

Well I.D. DM2

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	15.1	757	187.1			

Date

19-AUG-98	8.5	598	188.0 *	8.1		4277.6
01-DEC-98	8.4	588	181.5	8.3		4286.0

* Values Exceed Upper Control Limit

DM2

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 2

INTERIOR DEEP SAND MONITOR WELL

Well I.D. DM3

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	15.8	677	240.9			

Date

19-AUG-98	12.7	564	166.6	8.4		4281.0
01-DEC-98	12.6	554	162.4	8.6		4292.7

* Values Exceed Upper Control Limit

DM3

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 4

INTERIOR DEEP SAND MONITOR WELL

Well I.D. DM4

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	14.4	603	117.6			

Date

14-JUL-98	9.6	526	98.2	8.6		4274.8
12-AUG-98	9.1	526	94.9	8.9		4273.6
09-SEP-98	9.6	529	96.7	8.9		4283.2
13-OCT-98	9.6	524	96.9	8.8		4289.3
17-NOV-98	9.7	523	97.8	8.8		4295.0
15-DEC-98	10.0	522	99.1	8.8		4291.3

* Values Exceed Upper Control Limit

Negative U3O8 Grades Indicate Less Than Detection Limit.

DM4

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 2

INTERIOR DEEP SAND MONITOR WELL

Well I.D. DM5

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	15.7	675	206			

Date

19-AUG-98	8.4	616	200.1	8.2		4265.2
01-DEC-98	8.5	612	199.6	8.3		4274.8

* Values Exceed Upper Control Limit

DM5

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 5

INTERIOR DEEP SAND MONITOR WELL

Well I.D. DM9

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	16.3	647	132.7			

Date

14-JUL-98	9.8	533	99.6	8.6		4274.1
12-AUG-98	9.3	530	94.6	8.9		4275.5
08-SEP-98	9.8	530	96.5	8.9		4286.0
13-OCT-98	9.7	524	92.8	8.8		4292.9
17-NOV-98	10.1	524	95.2	8.8		4296.0
15-DEC-98	10.3	524	97.2	8.7		4292.6

* Values Exceed Upper Control Limit

DM9

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 6

INTERIOR DEEP SAND MONITOR WELL

Well I.D. DM10

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	16.4	606	107.5			

Date

01-JUL-98	16.3	689	*	153.4	*	8.3	-1	4273.2
07-JUL-98	15.7	678	*	147.9	*	8.4	-1	4280.3
14-JUL-98	16.6	682	*	150.5	*	8.2	-1	4275.0
21-JUL-98	14.9	673	*	144.2	*	8.4	-1	4275.8
28-JUL-98	16.2	679	*	149.8	*	8.5	-1	4273.4
04-AUG-98	14.5	673	*	141.3	*	8.6	-1	4275.6
11-AUG-98	15.1	672	*	134.9	*	8.5	-1	4277.3
18-AUG-98	15.5	664	*	138.7	*	8.3	-1	4283.0
25-AUG-98	14.6	652	*	135.1	*	8.3	-1	4287.9
01-SEP-98	14.4	648	*	129.6	*	8.4	-1	4289.9
08-SEP-98	14.4	649	*	136.0	*	8.5	-1	4290.7
15-SEP-98	14.3	648	*	133.5	*	8.7	-1	4292.8
23-SEP-98	14.3	650	*	138.2	*	8.4	-1	4295.3
28-SEP-98	14.2	655	*	134.2	*	8.4	-1	4296.8
06-OCT-98	14.5	651	*	139.6	*	8.3	-1	4296.9
13-OCT-98	14.4	660	*	140.7	*	8.6	-1	4298.1
20-OCT-98	15.1	664	*	145.3	*	8.2	-1	4299.2
26-OCT-98	14.7	675	*	151.0	*	8.3	-1	4299.9
04-NOV-98	14.9	678	*	150.2	*	8.1	-1	4301.1
11-NOV-98	15.4	684	*	156.4	*	8.2	-1	4302.2
17-NOV-98	16.3	692	*	156.2	*	8.2	-1	4300.0
23-NOV-98	16.1	693	*	157.1	*	8.0	-1	4299.5
01-DEC-98	15.7	699	*	161.5	*	8.2	-1	4297.0
08-DEC-98	15.9	697	*	159.2	*	8.3	-1	4295.1
14-DEC-98	16.0	704	*	170.3	*	8.2	-1	4294.7
21-DEC-98	17.1	704	*	163.8	*	8.1	-1	4293.8
28-DEC-98	16.1	712	*	172.3	*	8.2	-1	4293.7

* Values Exceed Upper Control Limit

DM10

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 7

INTERIOR DEEP SAND MONITOR WELL

Well I.D. DM11

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	15	607	104.7			

Date

08-JUL-98	10.6	555	96.2	8.6		4282.7
12-AUG-98	10.3	554	87.7	8.7		4282.4
02-SEP-98	10.6	555	95.5	8.7		4284.9
08-OCT-98	10.3	555	92.2	8.7		4292.8
05-NOV-98	10.4	553	94.5	8.6		4296.3
14-DEC-98	10.3	550	99.7	8.6		4292.8

* Values Exceed Upper Control Limit

DM11

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 8

INTERIOR DEEP SAND MONITOR WELL

Well I.D. DM13

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	15.1	624	113.5			

Date

08-JUL-98	10.5	553	97.1	8.7		4293.2
11-AUG-98	10.0	553	91.0	8.7		4293.9
02-SEP-98	10.3	553	96.2	8.6		4295.7
08-OCT-98	10.1	556	92.9	8.6		4299.3
05-NOV-98	10.1	539	95.4	8.5		4301.9
09-DEC-98	10.8	551	96.3	8.5		4301.7

* Values Exceed Upper Control Limit

DM13

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 8

INTERIOR DEEP SAND MONITOR WELL

Well I.D. DM14

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	15.5	619	109.5			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
08-JUL-98	10.6	563	96.4	8.7		4291.8
11-AUG-98	10.1	565	89.5	8.8		4292.1
02-SEP-98	10.6	563	94.6	8.7		4293.5
08-OCT-98	10.8	567	92.1	8.7		4296.9
05-NOV-98	10.3	561	94.3	8.6		4299.8
09-DEC-98	10.9	561	94.6	8.5		4299.6

* Values Exceed Upper Control Limit

DM14

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 9

INTERIOR DEEP SAND MONITOR WELL

Well I.D. DM15

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	15.1	618	110.6			

Date

08-JUL-98	10.9	566	95.6	8.8		4296.6
11-AUG-98	10.3	567	89.5	8.9		4296.9
02-SEP-98	10.6	566	96.5	8.7		4298.3
08-OCT-98	10.2	566	98.2	8.8		4301.5
05-NOV-98	10.3	548	102.4	8.7		4304.4
09-DEC-98	11.1	563	102.8	8.5		4303.8

* Values Exceed Upper Control Limit

DM15

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 9

INTERIOR DEEP SAND MONITOR WELL

Well I.D. DM16

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	15.7	646	111			

Date

08-JUL-98	10.8	570	93.4	8.9		4297.8
11-AUG-98	10.3	570	87.0	8.9		4298.2
02-SEP-98	10.7	569	91.9	8.9		4299.4
07-OCT-98	10.9	570	92.0	8.7		4302.6
05-NOV-98	10.4	566	92.5	8.9		4305.2
09-DEC-98	11.4	567	93.0	8.8		4305.4

* Values Exceed Upper Control Limit

DM16

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 5

INTERIOR DEEP SAND MONITOR WELL

Well I.D. DM17

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	15	618	108.2			

Date

14-JUL-98	9.8	537	114.1	*	8.5	4271.1
12-AUG-98	9.0	537	109.4	*	8.7	4273.1
08-SEP-98	9.3	540	111.7	*	8.7	4285.8
13-OCT-98	9.4	530	109.4	*	8.7	4291.7
17-NOV-98	9.7	528	108.4	*	8.7	4298.0
15-DEC-98	9.9	529	106.6		8.7	4291.0

* Values Exceed Upper Control Limit

DM17

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 4

INTERIOR DEEP SAND MONITOR WELL

Well I.D. DM18

2nd Half.1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	14.5	598	105.6			

Date

14-JUL-98	10.1	532	97.6	8.5	4272.4
12-AUG-98	9.5	530	93.9	8.7	4274.0
08-SEP-98	9.9	535	96.6	8.7	4282.8
13-OCT-98	10.0	531	95.1	8.6	4290.4
17-NOV-98	10.2	532	97.1	8.6	4295.0
15-DEC-98	10.3	528	96.4	8.5	4290.3

* Values Exceed Upper Control Limit

DM18

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 3

INTERIOR DEEP SAND MONITOR WELL

Well I.D. DM19

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	31.7	1207	245.3			

Date

19-AUG-98	10.4	511	125.3	8.4		4223.6
01-DEC-98	10.6	512	125.2	8.6		4262.7

* Values Exceed Upper Control Limit

DM19

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 3

INTERIOR DEEP SAND MONITOR WELL

Well I.D. DM20

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	17.5	609	135.6			

Date

19-AUG-98	9.5	517	102.4	8.7		4279.5
01-DEC-98	9.4	516	101.1	8.6		4296.1

* Values Exceed Upper Control Limit

DM20

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 7

INTERIOR DEEP SAND MONITOR WELL

Well I.D. DM21

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	15.6	628	126.7			

Date

08-JUL-98	10.6	559	95.4	8.7		4290.4
12-AUG-98	9.8	557	91.2	8.7		4289.9
02-SEP-98	10.6	558	95.0	8.7		4294.1
08-OCT-98	10.3	559	91.4	8.7		4299.0
05-NOV-98	10.1	541	94.9	8.6		4301.9
14-DEC-98	10.4	552	98.3	8.6		4300.0

* Values Exceed Upper Control Limit

DM21

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 6

INTERIOR DEEP SAND MONITOR WELL

Well I.D. DM22

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	15.1	654	117			

Date

08-JUL-98	10.2	544	97.3	8.6		4279.5
11-AUG-98	9.8	545	90.3	8.6		4279.2
02-SEP-98	10.1	544	96.3	8.6		4289.0
08-OCT-98	9.7	542	92.4	8.6		4296.7
11-NOV-98	9.9	535	96.4	8.7		4301.1
14-DEC-98	10.1	539	100.0	8.6		4292.7

* Values Exceed Upper Control Limit

DM22

Negative U3O8 Grades Indicate Less Than Detection Limit.

IRIGARAY RANCH
INTERIOR COAL ZONE TREND WELLS

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 3

INTERIOR COAL ZONE TREND WELL

Well I.D. RS19

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Restoration Target	56					

Date

19-AUG-98	17.3			8.5		4275.8
01-DEC-98	17.5			8.6		4289.8

* Values Exceed Restoration Target

RS19

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 2

INTERIOR COAL ZONE TREND WELL

Well I.D. RS34

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Restoration Target	56					

Date

19-AUG-98	37.6			8.5		4271.3
01-DEC-98	39.4			8.5		4287.6

* Values Exceed Restoration Target

RS34

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 3

INTERIOR COAL ZONE TREND WELL

Well I.D. RS39

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Restoration Target	56					

Date

19-AUG-98	36.3			7.7		4272.6
01-DEC-98	46.7			7.8		4290.4

* Values Exceed Restoration Target

RS39

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 1

INTERIOR COAL ZONE TREND WELL

2nd Half, 1998

Well I.D. SM1

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Restoration Target	56					

Date

19-AUG-98	27.2			8.3		4276.6
01-DEC-98	26.9			8.6		4291.4

* Values Exceed Restoration Target

SM1

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 1

INTERIOR COAL ZONE TREND WELL

Well I.D. SM2

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO_3		mg/l	msl
Restoration Target	56					

Date

19-AUG-98	25.2			8.1		4303.4
01-DEC-98	23.8			7.3		4290.3

* Values Exceed Restoration Target

SM2

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 2

INTERIOR COAL ZONE TREND WELL

Well I.D. SM7

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Restoration Target	56					

Date

19-AUG-98	79.4 *			7.5		4271.4
01-DEC-98	76.8 *			7.8		4287.1

* Values Exceed Restoration Target

SM7

Negative U3O8 Grades Indicate Less Than Detection Limit.

CHRISTENSEN RANCH

PERIMETER ORE ZONE MONITOR WELLS

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW17-2

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	µ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.4	777	129.7			

Date

08-JUL-98	10.3	674	90.3	8.7		4452.0
21-JUL-98	10.2	670	95.7	8.6		4454.0
06-AUG-98	10.0	671	91.2	8.8		4472.0
19-AUG-98	10.0	662	91.3	8.9		4492.8
01-SEP-98	9.8	660	89.7	8.9		4501.4
15-SEP-98	10.0	673	94.3	9.0		4505.3
29-SEP-98	9.8	668	88.5	8.9		4512.0
14-OCT-98	9.7	667	91.9	9.0		4515.3
27-OCT-98	9.9	667	93.2	8.9		4520.1
12-NOV-98	9.5	659	88.3	8.8		4523.8
24-NOV-98	9.5	662	90.7	8.6		4527.1
08-DEC-98	9.4	662	88.8	8.8		4529.3
22-DEC-98	9.2	669	93.6	8.9		4531.2

* Values Exceed Upper Control Limit

MW17-2

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW18

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.4	777	129.7			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
08-JUL-98	9.1	666	92.5	8.7	4449.4
21-JUL-98	9.9	667	96.7	8.5	4452.2
06-AUG-98	9.7	673	92.4	8.7	4462.9
20-AUG-98	9.7	670	95.1	8.7	4477.1
20-AUG-98	9.7	670	95.1	8.7	4477.1
01-SEP-98	9.2	667	91.1	8.7	4499.5
16-SEP-98	9.7	663	92.1	8.7	4504.2
29-SEP-98	9.5	674	90.5	8.7	4511.0
14-OCT-98	9.6	662	93.4	8.7	4517.0
27-OCT-98	9.8	661	92.4	8.7	4519.2
13-NOV-98	9.9	662	91.7	8.5	4522.6
24-NOV-98	10.2	663	94.9	8.4	4524.4
08-DEC-98	10.1	667	93.8	8.8	4527.9
22-DEC-98	9.2	668	94.6	8.6	4530.0

* Values Exceed Upper Control Limit

MW18

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW19

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.4	777	129.7			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
08-JUL-98	9.1	666	91.1	8.6	4441.6
21-JUL-98	10.0	671	96.3	8.3	4443.7
06-AUG-98	10.0	673	92.1	8.3	4460.5
20-AUG-98	9.7	669	93.8	8.5	4474.4
01-SEP-98	9.7	664	95.4	8.5	4481.0
16-SEP-98	7.9	627	96.6	8.3	4485.1
29-SEP-98	8.8	671	90.7	8.4	4510.6
14-OCT-98	9.3	654	91.9	8.3	4514.8
27-OCT-98	9.5	656	91.6	8.3	4491.6
13-NOV-98	9.4	659	90.0	8.0	4522.1
24-NOV-98	9.9	661	95.2	8.0	4524.4
08-DEC-98	10.2	666	95.8	8.4	4526.5
22-DEC-98	9.1	665	95.0	8.4	4529.8

* Values Exceed Upper Control Limit

MW19

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

PERIMETER ORE ZONE MONITOR WELL

2nd Half, 1998

Well I.D. MW20

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.4	777	129.7			

Date

08-JUL-98	8.9	673	95.9	8.5		4456.7
21-JUL-98	9.9	671	101.5	8.4		4458.8
06-AUG-98	9.8	674	95.9	8.5		4478.5
20-AUG-98	9.9	675	101.9	8.4		4494.0
01-SEP-98	9.5	668	95.8	8.6		4498.8
16-SEP-98	9.2	668	95.7	8.6		4503.0
29-SEP-98	9.5	678	95.2	8.6		4512.1
14-OCT-98	9.8	661	97.7	8.5		4517.5
27-OCT-98	9.9	663	98.1	8.5		4517.5
13-NOV-98	9.6	658	95.9	8.3		4520.9
24-NOV-98	10.0	666	99.7	8.2		4523.6
08-DEC-98	9.9	667	98.2	8.5		4525.3
22-DEC-98	9.1	669	99.0	8.5		4528.1

* Values Exceed Upper Control Limit

MW20

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW23

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.4	777	129.7			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
08-JUL-98	9.3	670	92.7	8.6	4458.6
21-JUL-98	10.0	671	96.8	8.3	4433.5
06-AUG-98	10.0	670	94.4	8.5	4451.5
20-AUG-98	10.1	670	93.9	8.3	4467.3
01-SEP-98	9.6	660	92.0	8.6	4473.4
16-SEP-98	9.8	667	91.5	8.6	4478.3
29-SEP-98	9.7	679	91.3	8.6	4484.4
14-OCT-98	10.2	652	92.1	8.6	4487.5
27-OCT-98	10.4	661	90.8	8.6	4489.8
13-NOV-98	10.5	650	87.6	8.3	4492.6
24-NOV-98	10.8	650	92.5	8.4	4495.4
08-DEC-98	10.2	654	90.6	8.7	4517.4
22-DEC-98	9.5	661	91.5	8.6	4519.2

* Values Exceed Upper Control Limit

MW23

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW24

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.4	777	129.7			

Date

08-JUL-98	9.2	667	89.0	8.7		4455.6
21-JUL-98	10.1	665	93.7	8.3		4458.0
06-AUG-98	9.9	661	89.2	8.6		4474.8
20-AUG-98	9.9	671	89.0	8.6		4488.0
01-SEP-98	9.5	653	87.3	8.7		4495.0
16-SEP-98	9.9	655	86.8	8.8		4498.9
29-SEP-98	9.9	670	86.2	8.7		4506.6
14-OCT-98	10.0	649	88.6	8.6		4506.6
27-OCT-98	10.4	650	89.1	8.7		4513.2
13-NOV-98	9.5	649	83.7	8.4		4515.8
24-NOV-98	10.4	653	91.9	8.4		4518.7
08-DEC-98	10.2	660	91.8	8.7		4521.2
22-DEC-98	9.4	660	92.1	8.7		4523.3

* Values Exceed Upper Control Limit

MW24

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW25

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.4	777	129.7			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
08-JUL-98	9.4	665	91.2	8.6	4452.6
21-JUL-98	10.2	661	95.4	8.4	4454.9
06-AUG-98	10.4	662	92.1	8.5	4474.3
20-AUG-98	9.9	664	89.7	8.5	4491.6
01-SEP-98	10.2	654	96.1	8.6	4492.0
16-SEP-98	10.1	661	91.4	8.6	4502.7
29-SEP-98	9.9	672	89.8	8.6	4508.9
14-OCT-98	10.2	654	92.7	8.5	4513.0
27-OCT-98	10.3	655	92.6	8.6	4513.7
13-NOV-98	9.9	650	88.5	8.3	4516.2
24-NOV-98	10.3	658	93.9	8.3	4516.2
08-DEC-98	10.5	658	93.6	8.6	4518.7
22-DEC-98	9.4	662	93.6	8.5	4519.9

* Values Exceed Upper Control Limit

MW25

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW26

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.4	777	129.7			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
08-JUL-98	9.6	663	90.2	8.6		4448.6
21-JUL-98	10.3	659	93.4	8.3		4451.8
06-AUG-98	10.0	662	89.9	8.6		4471.7
20-AUG-98	10.2	663	89.3	8.5		4487.4
01-SEP-98	9.7	654	90.7	8.6		4495.1
16-SEP-98	10.1	661	90.3	8.6		4497.3
29-SEP-98	10.1	672	89.0	8.6		4505.9
14-OCT-98	10.2	654	91.0	8.5		4514.5
27-OCT-98	10.3	656	90.3	8.5		4514.5
13-NOV-98	10.1	649	87.4	8.3		4516.2
24-NOV-98	10.7	659	92.8	8.3		4519.8
08-DEC-98	10.3	659	92.6	8.5		4522.2
22-DEC-98	9.6	659	92.7	8.6		4524.6

* Values Exceed Upper Control Limit

MW26

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW27

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.4	777	129.7			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
08-JUL-98	10.0	663	90.3	8.6	4450.3
21-JUL-98	10.9	662	94.9	8.4	4452.6
06-AUG-98	10.8	666	91.2	8.6	4469.9
19-AUG-98	10.7	668	90.5	8.6	4486.9
01-SEP-98	10.2	653	90.8	8.6	4495.1
16-SEP-98	11.3	664	90.1	8.6	4495.1
29-SEP-98	10.8	672	89.3	8.6	4506.4
14-OCT-98	10.9	656	92.0	8.5	4511.0
27-OCT-98	10.9	656	91.9	8.5	4516.0
13-NOV-98	10.5	650	87.9	8.3	4518.1
24-NOV-98	11.3	657	94.2	8.3	4520.7
08-DEC-98	11.1	660	93.6	8.5	4523.6
22-DEC-98	10.1	662	93.4	8.5	4525.9

* Values Exceed Upper Control Limit

MW27

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

PERIMETER ORE ZONE MONITOR WELL

2nd Half, 1998

Well I.D. MW28

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.4	777	129.7			

Date

08-JUL-98	9.7	665	92.1	8.6	4456.0
21-JUL-98	9.7	659	91.5	8.6	4459.8
06-AUG-98	10.9	668	92.5	8.5	4474.3
19-AUG-98	10.6	657	91.7	8.6	4490.5
01-SEP-98	10.3	661	94.7	8.6	4498.9
15-SEP-98	10.6	668	96.3	8.5	4504.0
29-SEP-98	10.4	664	90.5	8.5	4510.0
14-OCT-98	10.5	655	94.4	8.6	4510.0
27-OCT-98	10.8	664	93.7	8.6	4519.9
12-NOV-98	10.8	655	93.2	8.4	4522.3
24-NOV-98	11.3	661	96.5	8.3	4524.7
08-DEC-98	10.8	661	92.1	8.4	4527.2
22-DEC-98	10.4	666	96.7	8.5	4529.9

* Values Exceed Upper Control Limit

MW28

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW29

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO_3		mg/l	msl
Upper Control Limit	13.4	777	129.7			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
08-JUL-98	9.3	667	93.7	8.6	4466.4
21-JUL-98	10.0	667	98.9	8.5	4471.1
06-AUG-98	9.9	669	94.1	8.6	4481.6
19-AUG-98	10.0	657	93.2	8.6	4494.1
01-SEP-98	9.7	662	94.3	8.6	4502.2
15-SEP-98	9.7	668	96.5	8.6	4508.3
29-SEP-98	9.7	670	91.4	8.5	4513.2
14-OCT-98	9.9	653	96.4	8.6	4515.6
27-OCT-98	10.0	661	94.6	8.5	4522.3
12-NOV-98	10.3	654	96.5	8.4	4525.4
24-NOV-98	10.4	659	97.1	8.3	4527.8
08-DEC-98	10.1	657	91.4	8.4	4530.1
22-DEC-98	9.2	663	95.7	8.5	4533.1

* Values Exceed Upper Control Limit

MW29

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW30

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.4	777	129.7			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
08-JUL-98	9.1	677	96.9	8.6	4470.6
21-JUL-98	9.2	669	97.6	8.6	4471.9
06-AUG-98	9.9	676	97.8	8.5	4483.8
19-AUG-98	9.7	668	97.1	8.6	4497.4
01-SEP-98	9.4	669	96.9	8.6	4505.2
15-SEP-98	9.8	675	99.2	8.6	4512.3
29-SEP-98	9.7	672	95.4	8.6	4517.0
14-OCT-98	9.7	666	99.1	8.6	4520.0
27-OCT-98	10.0	669	98.1	8.5	4525.2
12-NOV-98	9.5	662	94.0	8.4	4528.1
24-NOV-98	10.2	669	100.5	8.3	4530.5
08-DEC-98	10.0	664	95.1	8.4	4533.1
22-DEC-98	9.1	672	98.7	8.5	4535.7

* Values Exceed Upper Control Limit

MW30

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW31

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.4	777	129.7			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
08-JUL-98	8.9	680	97.0	8.6	4469.3
21-JUL-98	9.2	668	97.4	8.6	4471.2
06-AUG-98	9.6	681	97.6	8.6	4487.4
19-AUG-98	9.6	670	96.7	8.6	4500.4
01-SEP-98	9.3	673	97.3	8.6	4508.1
15-SEP-98	9.7	678	99.9	8.7	4514.6
29-SEP-98	9.6	676	95.4	8.6	4519.4
14-OCT-98	9.7	672	99.0	8.6	4523.7
27-OCT-98	10.0	675	98.3	8.5	4527.6
12-NOV-98	9.6	666	97.0	8.4	4531.2
24-NOV-98	10.2	674	100.4	8.3	4533.6
08-DEC-98	9.6	672	96.2	8.4	4536.0
22-DEC-98	9.4	677	100.5	8.6	4538.7

* Values Exceed Upper Control Limit

MW31

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW32

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l.	msl
Upper Control Limit	13.4	777	129.7			

Date					
08-JUL-98	8.8	678	97.9	8.5	4478.7
21-JUL-98	9.0	678	98.3	8.6	4481.6
06-AUG-98	9.5	678	98.1	8.5	4497.8
19-AUG-98	9.6	676	97.0	8.6	4503.1
01-SEP-98	9.2	672	97.9	8.6	4510.5
15-SEP-98	9.4	675	100.3	8.7	4516.3
29-SEP-98	9.2	679	96.1	8.6	4521.6
14-OCT-98	9.4	665	99.1	8.6	452
27-OCT-98	9.6	674	98.5	8.5	4529.1
12-NOV-98	9.3	662	95.4	8.4	4532.9
24-NOV-98	9.4	670	95.7	8.3	4537.2
08-DEC-98	9.7	670	100.4	8.5	4538.6
22-DEC-98	9.1	670	100.0	8.5	4540.7

* Values Exceed Upper Control Limit

MW32

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW35

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.4	777	129.7			

Date					
08-JUL-98	8.9	675	96.6	8.5	4463.0
21-JUL-98	9.7	677	101.4	8.5	4468.0
06-AUG-98	9.8	679	97.2	8.4	4477.7
19-AUG-98	9.5	674	95.5	8.6	4497.9
01-SEP-98	9.3	675	97.9	8.7	4505.4
16-SEP-98	9.6	673	100.8	8.6	4511.8
29-SEP-98	9.9	678	95.7	8.5	4516.0
14-OCT-98	9.5	668	99.1	8.5	4519.9
27-OCT-98	10.0	666	98.5	8.4	4523.8
12-NOV-98	9.7	662	95.8	8.3	4528.6
24-NOV-98	10.1	670	100.1	8.2	4530.7
09-DEC-98	10.1	667	100.1	8.5	4533.0
22-DEC-98	9.8	665	101.0	8.4	4534.9

* Values Exceed Upper Control Limit

MW35

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW36

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.4	777	129.7			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
08-JUL-98	9.7	677	96.0	8.5	4469.5
21-JUL-98	9.9	677	102.0	8.4	4471.4
06-AUG-98	9.6	678	96.6	8.4	4489.1
19-AUG-98	9.7	671	95.7	8.5	4502.1
01-SEP-98	9.5	669	94.3	8.5	4509.8
16-SEP-98	9.6	670	99.8	8.6	4514.5
29-SEP-98	9.6	672	94.5	8.5	4520.4
14-OCT-98	9.4	664	98.4	8.5	4525.2
27-OCT-98	9.6	670	96.7	8.5	4529.2
12-NOV-98	9.5	663	95.6	8.3	4534.5
24-NOV-98	10.2	668	98.7	8.4	4535.4
09-DEC-98	9.8	662	98.5	8.5	4538.2
22-DEC-98	9.1	658	99.2	8.3	4540.4

* Values Exceed Upper Control Limit

MW36

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW37

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	mst
Upper Control Limit	13.4	777	129.7			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
08-JUL-98	9.0	677	96.6	8.5	4462.7
21-JUL-98	9.9	676	101.2	8.4	4464.7
06-AUG-98	9.6	677	96.4	8.4	4483.6
19-AUG-98	9.6	669	95.6	8.5	4495.4
01-SEP-98	10.0	668	96.9	8.5	4503.1
16-SEP-98	9.8	670	100.3	8.5	4507.6
29-SEP-98	9.4	674	94.3	8.5	4514.5
14-OCT-98	9.5	662	98.6	8.5	4517.9
27-OCT-98	9.7	670	97.0	8.5	4522.5
12-NOV-98	9.6	662	94.6	8.3	4526.3
24-NOV-98	10.3	668	100.2	8.4	4528.7
09-DEC-98	10.4	660	101.3	8.5	4531.4
22-DEC-98	9.7	660	102.3	8.3	4533.5

* Values Exceed Upper Control Limit

MW37

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW38

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO_3		mg/l	msl
Upper Control Limit	13.4	777	129.7			
Date						
08-JUL-98	9.0	677	97.1	8.6		4468.0
21-JUL-98	9.9	669	102.4	8.4		4469.0
06-AUG-98	9.8	676	97.2	8.7		4476.4
20-AUG-98	9.7	676	96.4	8.6		4492.4
01-SEP-98	9.4	663	98.2	8.6		4502.2
16-SEP-98	9.9	667	99.7	8.7		4508.9
29-SEP-98	9.8	670	94.1	8.6		4518.0
14-OCT-98	9.8	659	97.4	8.5		4517.8
27-OCT-98	9.8	661	97.3	8.5		4521.8
12-NOV-98	9.7	654	99.0	8.6		4525.1
24-NOV-98	9.7	663	95.0	8.3		4527.5
08-DEC-98	9.6	663	94.0	8.4		4529.3
22-DEC-98	10.1	669	99.4	8.6		4532.5

* Values Exceed Upper Control Limit

MW38

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW39

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.4	777	129.7			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
08-JUL-98	9.5	674	94.9	8.7	4466.0
21-JUL-98	10.5	664	100.2	8.6	4467.0
06-AUG-98	10.2	674	96.0	8.8	4481.3
20-AUG-98	10.4	672	95.8	8.6	4496.8
01-SEP-98	10.4	665	97.0	8.7	4502.6
16-SEP-98	10.2	667	99.4	8.8	4509.3
29-SEP-98	10.0	672	95.1	8.7	4516.1
14-OCT-98	10.4	660	99.4	8.7	4518.1
27-OCT-98	10.2	662	97.1	8.6	4522.1
12-NOV-98	10.1	648	101.2	8.8	4525.4
24-NOV-98	10.1	662	96.2	8.4	4527.7
08-DEC-98	10.1	664	97.6	8.6	4529.5
22-DEC-98	10.5	671	101.2	8.7	4532.7

* Values Exceed Upper Control Limit

MW39

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW40

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.4	777	129.7			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
08-JUL-98	9.3	666	92.2	8.6		4469.0
21-JUL-98	10.0	666	95.8	8.6		4471.0
06-AUG-98	9.6	676	95.1	8.7		4483.4
20-AUG-98	9.8	673	95.5	8.6		4495.5
01-SEP-98	10.0	669	101.9	8.6		4503.2
16-SEP-98	9.6	670	94.7	8.7		4508.5
29-SEP-98	9.5	672	93.2	8.7		4517.4
14-OCT-98	9.5	665	97.4	8.7		4519.0
27-OCT-98	9.8	665	96.2	8.5		4523.3
12-NOV-98	9.4	662	91.6	8.5		4526.0
24-NOV-98	10.1	672	98.7	8.5		4529.2
08-DEC-98	9.8	663	94.1	8.5		4531.6
22-DEC-98	9.5	670	94.3	8.6		4533.6

* Values Exceed Upper Control Limit

MW40

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW41

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.4	777	129.7			

Date

08-JUL-98	8.8	682	99.7	8.6	4484.2
21-JUL-98	8.9	681	100.4	8.7	4486.7
06-AUG-98	9.3	681	99.8	8.6	4496.4
19-AUG-98	9.4	683	98.7	8.6	4506.7
01-SEP-98	9.1	674	99.5	8.6	4513.0
15-SEP-98	9.5	678	102.8	8.7	4520.0
29-SEP-98	9.3	682	98.5	8.6	4524.9
14-OCT-98	9.2	669	102.1	8.6	4528.1
27-OCT-98	9.5	676	100.3	8.5	4531.7
12-NOV-98	9.2	666	98.5	8.4	4536.3
24-NOV-98	9.3	675	97.0	8.3	4540.7
08-DEC-98	9.6	675	102.3	8.6	4542.3
22-DEC-98	9.2	674	98.7	8.5	4543.3

* Values Exceed Upper Control Limit

MW41

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW42

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.4	777	129.7			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
08-JUL-98	9.5	672	96.4	8.6	4483.7
21-JUL-98	8.8	670	96.5	8.7	4485.9
06-AUG-98	9.5	672	95.8	8.8	4498.9
20-AUG-98	9.6	678	95.9	8.6	4508.7
01-SEP-98	9.3	662	97.1	8.7	4515.6
15-SEP-98	9.5	670	100.5	8.9	4522.0
29-SEP-98	9.4	676	94.4	8.8	4526.8
14-OCT-98	9.4	660	97.8	8.7	4533.7
27-OCT-98	9.7	662	96.8	8.5	4537.7
12-NOV-98	9.3	660	93.7	8.5	4537.7
24-NOV-98	10.1	669	98.5	8.5	4541.8
08-DEC-98	9.6	666	98.7	8.6	4542.7
22-DEC-98	9.2	664	94.9	8.7	4545.1

* Values Exceed Upper Control Limit

MW42

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW43

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.4	777	129.7			

Date					
08-JUL-98	9.4	671	96.3	8.5	4484.4
21-JUL-98	8.9	671	95.9	8.6	4486.4
06-AUG-98	9.5	673	96.2	8.3	4502.1
20-AUG-98	9.7	671	95.0	8.4	4511.4
01-SEP-98	9.3	659	96.7	8.5	4518.0
15-SEP-98	9.5	666	99.0	8.6	4524.2
29-SEP-98	9.3	670	92.6	8.5	4528.5
14-OCT-98	9.1	659	98.3	8.6	4532.6
27-OCT-98	9.5	666	96.5	8.4	4535.6
12-NOV-98	9.0	661	91.0	8.4	4539.3
24-NOV-98	9.7	666	98.0	8.4	4543.1
09-DEC-98	9.6	647	98.3	8.6	4544.9
22-DEC-98	9.2	659	94.6	8.5	4547.3

* Values Exceed Upper Control Limit

MW43

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW44

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.4	777	129.7			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
08-JUL-98	9.0	677	94.9	8.5	4461.3
21-JUL-98	9.3	675	97.2	8.5	4466.0
06-AUG-98	9.5	678	94.9	8.5	4484.5
20-AUG-98	9.4	678	95.3	8.4	4495.7
01-SEP-98	9.6	676	93.2	8.6	4503.0
16-SEP-98	9.9	675	100.4	8.6	4510.2
29-SEP-98	9.5	676	94.3	8.5	4514.7
14-OCT-98	9.9	670	98.5	8.6	4519.8
27-OCT-98	10.0	663	97.4	8.4	4519.8
12-NOV-98	9.9	659	99.4	8.4	4525.5
24-NOV-98	10.2	671	99.9	8.4	4527.2
09-DEC-98	10.0	663	99.1	8.5	4530.7
22-DEC-98	9.7	664	94.9	8.4	4533.0

* Values Exceed Upper Control Limit

MW44

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW45

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO_3		mg/l	msl
Upper Control Limit	13.4	777	129.7			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
08-JUL-98	9.0	678	96.2	8.5	4455.2
21-JUL-98	9.1	673	96.5	8.5	4459.2
06-AUG-98	9.6	678	96.1	8.5	4477.8
19-AUG-98	9.7	676	95.8	8.5	4498.2
01-SEP-98	9.8	676	95.7	8.5	4505.6
16-SEP-98	9.8	676	100.0	8.6	4511.9
29-SEP-98	9.5	676	95.0	8.5	4516.9
14-OCT-98	9.6	672	98.1	8.5	4521.3
27-OCT-98	10.0	663	98.1	8.4	4524.4
13-NOV-98	9.3	673	91.3	8.2	4527.8
24-NOV-98	10.3	670	99.0	8.4	4531.1
09-DEC-98	10.2	664	99.1	8.5	4533.6
22-DEC-98	9.9	664	95.7	8.3	4535.6

* Values Exceed Upper Control Limit

MW45

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW62

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.4	777	129.7			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
08-JUL-98	9.9	678	91.9	9.1	4469.4
21-JUL-98	9.2	675	94.0	9.1	4473.3
05-AUG-98	10.0	675	96.2	9.2	4492.1
19-AUG-98	9.3	671	85.0	9.1	4503.0
01-SEP-98	9.6	663	90.4	9.2	4510.0
16-SEP-98	10.0	670	89.2	9.2	4517.4
29-SEP-98	9.5	671	84.5	9.3	4522.0
14-OCT-98	9.8	666	87.5	9.2	4528.7
28-OCT-98	9.7	657	87.6	9.3	4528.7
12-NOV-98	9.5	661	85.6	9.2	4533.4
24-NOV-98	10.2	669	88.8	9.2	4537.8
09-DEC-98	10.1	660	89.0	9.2	4540.9
22-DEC-98	9.2	664	90.5	9.3	4540.0

* Values Exceed Upper Control Limit

MW62

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW63

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.4	777	129.7			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
08-JUL-98	9.6	676	92.2	9.0	4470.7
21-JUL-98	9.7	671	97.9	8.8	4474.7
05-AUG-98	9.6	669	95.1	9.0	4487.6
19-AUG-98	9.4	671	91.9	8.8	4506.5
01-SEP-98	9.7	658	96.2	8.9	4512.4
16-SEP-98	10.0	673	91.2	9.3	4519.9
29-SEP-98	9.1	671	88.3	8.9	4524.5
14-OCT-98	9.4	658	92.4	8.9	4528.1
28-OCT-98	9.2	657	90.8	9.2	4530.0
12-NOV-98	9.2	654	91.5	9.0	4534.6
24-NOV-98	9.8	669	93.5	8.8	4539.1
09-DEC-98	9.6	659	93.0	8.9	4541.9
22-DEC-98	9.1	666	94.0	8.9	4544.1

* Values Exceed Upper Control Limit

MW63

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW64

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO_3		mg/l	msl
Upper Control Limit	13.4	777	129.7			

Date

08-JUL-98	8.8	686	101.9	8.5		4474.0
21-JUL-98	9.5	684	107.0	8.5		4481.1
05-AUG-98	9.5	684	104.9	8.5		4491.8
19-AUG-98	9.4	684	101.2	8.4		4511.0
01-SEP-98	9.3	666	102.6	8.5		4517.8
16-SEP-98	9.6	681	104.6	8.5		4524.4
29-SEP-98	9.0	685	97.5	8.6		4528.1
14-OCT-98	9.3	667	102.0	8.5		453
28-OCT-98	9.1	666	102.0	8.5		4533.6
12-NOV-98	9.2	663	101.2	8.5		4536.8
24-NOV-98	9.4	676	102.6	8.3		4542.1
09-DEC-98	9.6	668	101.4	8.5		4544.9
22-DEC-98	8.8	674	101.5	8.5		4547.2

* Values Exceed Upper Control Limit

MW64

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW73

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.6	823	121.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
07-JUL-98	9.9	670	100.0	8.7	4478.5
20-JUL-98	9.2	666	95.5	8.8	4479.6
03-AUG-98	9.9	675	99.0	8.7	4480.7
18-AUG-98	9.8	673	101.7	7.7	4497.0
31-AUG-98	9.7	672	92.3	8.8	4505.7
15-SEP-98	9.5	667	95.7	8.9	4513.5
28-SEP-98	9.7	668	93.6	9.0	4515.2
13-OCT-98	9.8	661	96.0	8.9	4519.6
27-OCT-98	10.0	660	96.0	8.9	4525.5
11-NOV-98	9.8	662	93.9	8.6	4526.3
23-NOV-98	9.5	663	97.7	8.9	4528.6
07-DEC-98	9.8	658	92.1	8.7	4531.3
22-DEC-98	9.5	662	100.0	9.0	4533.6

* Values Exceed Upper Control Limit

MW73

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

PERIMETER ORE ZONE MONITOR WELL

2nd Half, 1998

Well I.D. MW74

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.6	823	121.3			
Date						
07-JUL-98	9.7	669	97.9	9.0		4479.1
20-JUL-98	9.2	665	96.7	8.7		4480.1
03-AUG-98	9.8	674	100.2	8.8		4480.7
18-AUG-98	9.7	668	101.3	8.8		4497.2
31-AUG-98	9.4	673	95.4	8.8		4505.0
15-SEP-98	9.6	671	100.2	8.9		4511.3
28-SEP-98	9.5	672	97.1	9.0		4514.2
13-OCT-98	9.6	662	98.5	8.9		451
27-OCT-98	9.8	665	99.0	8.9		4525.6
11-NOV-98	9.8	663	95.7	8.6		4526.5
23-NOV-98	9.4	665	100.7	8.9		4528.6
07-DEC-98	9.5	662	94.1	8.7		4531.9
22-DEC-98	9.7	665	104.9	8.9		4534.2

* Values Exceed Upper Control Limit

MW74

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW75

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.6	823	121.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
07-JUL-98	9.9	673	100.3	8.7	4476.5
20-JUL-98	9.2	673	94.5	9.1	4478.3
03-AUG-98	9.8	676	99.7	8.6	4480.4
18-AUG-98	9.6	668	97.7	8.7	4496.9
31-AUG-98	9.4	675	93.5	8.7	4505.8
15-SEP-98	9.5	671	96.7	8.8	4513.0
28-SEP-98	9.5	674	93.6	8.9	4514.2
13-OCT-98	9.6	665	96.1	8.8	4517.9
27-OCT-98	9.6	666	95.3	8.8	4525.0
11-NOV-98	9.7	667	94.7	8.5	4526.1
23-NOV-98	9.5	667	99.1	8.8	4528.3
07-DEC-98	9.8	662	94.8	8.6	4531.2
22-DEC-98	9.5	666	102.5	8.8	4533.3

* Values Exceed Upper Control Limit

MW75

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW76

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.6	823	121.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
07-JUL-98	8.8	721	95.6	8.7		4485.4
20-JUL-98	9.1	708	97.2	8.6		4486.3
03-AUG-98	8.8	723	95.7	8.7		4486.9
18-AUG-98	8.8	716	96.4	8.6		4499.5
31-AUG-98	8.6	721	90.3	8.7		4507.4
15-SEP-98	8.8	715	95.7	8.7		4515.5
28-SEP-98	8.5	720	92.1	8.8		4517.7
13-OCT-98	8.8	712	94.8	8.7		4526.8
27-OCT-98	8.9	712	94.9	8.7		4526.8
11-NOV-98	9.0	715	93.6	8.4		4529.0
23-NOV-98	8.7	714	97.2	8.7		4531.2
07-DEC-98	8.8	710	92.4	8.5		4533.7
22-DEC-98	8.8	713	102.1	8.7		4536.4

* Values Exceed Upper Control Limit

MW76

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW77

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.6	823	121.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
07-JUL-98	9.0	728	97.2	8.5	4485.9
20-JUL-98	8.4	723	93.9	8.8	4486.8
03-AUG-98	9.0	725	96.6	8.4	4488.0
18-AUG-98	9.2	722	98.6	8.5	4502.5
31-AUG-98	8.7	727	91.5	8.5	4509.2
15-SEP-98	8.7	726	93.8	8.5	4518.8
28-SEP-98	8.6	729	92.9	8.6	4518.0
13-OCT-98	8.7	720	94.1	8.5	4521.6
27-OCT-98	8.9	720	94.2	8.5	4526.6
11-NOV-98	8.8	718	91.5	8.1	4528.2
23-NOV-98	8.6	725	96.9	8.5	4531.2
07-DEC-98	8.6	721	90.6	8.4	4533.5
22-DEC-98	8.6	721	100.2	8.5	4535.9

* Values Exceed Upper Control Limit

MW77

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

PERIMETER ORE ZONE MONITOR WELL

2nd Half, 1998

Well I.D. MW78

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	µ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.6	823	121.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
07-JUL-98	9.7	684	98.3	8.6	4478.0
20-JUL-98	9.1	680	94.8	8.5	4478.5
03-AUG-98	9.5	691	97.1	8.6	4480.7
18-AUG-98	9.2	699	98.2	8.6	4493.0
31-AUG-98	9.2	702	96.9	8.7	4499.9
15-SEP-98	9.0	702	95.8	8.6	4509.9
28-SEP-98	9.0	707	92.6	8.7	4513.1
13-OCT-98	8.9	708	94.4	8.6	4513.1
27-OCT-98	9.2	695	95.3	8.6	4521.7
11-NOV-98	9.2	699	92.7	8.3	4524.3
23-NOV-98	9.4	699	95.7	8.4	4526.8
07-DEC-98	9.2	697	93.6	8.4	4528.7
22-DEC-98	9.2	699	101.2	8.6	4530.9

* Values Exceed Upper Control Limit

MW78

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW79

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.6	823	121.3			

Date

07-JUL-98	8.9	724	97.3	8.5	4477.9
20-JUL-98	8.7	724	96.6	8.4	4478.1
03-AUG-98	8.9	717	96.4	8.5	4481.4
18-AUG-98	8.8	716	97.5	8.5	4496.2
31-AUG-98	8.8	721	97.6	8.6	4503.2
15-SEP-98	8.7	721	95.8	8.5	4507.6
28-SEP-98	8.7	727	92.9	8.6	4512.7
13-OCT-98	8.9	728	95.1	8.5	4516.2
27-OCT-98	8.8	717	94.2	8.5	4520.3
11-NOV-98	9.1	717	95.3	8.1	4522.6
23-NOV-98	9.1	718	95.9	8.3	4525.5
07-DEC-98	8.8	714	92.1	8.3	4527.3
22-DEC-98	8.8	717	102.3	8.5	4529.4

* Values Exceed Upper Control Limit

MW79

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

PERIMETER ORE ZONE MONITOR WELL

2nd Half, 1998

Well I.D. MW80

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.6	823	121.3			

Date

07-JUL-98	9.4	705	98.8	8.6		4478.1
20-JUL-98	9.3	703	97.5	8.5		4478.4
03-AUG-98	9.4	693	97.8	8.6		4483.5
18-AUG-98	9.4	693	98.1	8.5		4495.7
31-AUG-98	9.4	701	98.1	8.6		4503.0
15-SEP-98	9.1	702	96.6	8.6		4508.6
28-SEP-98	9.4	710	94.5	8.6		4512.2
13-OCT-98	9.4	706	96.5	8.6		4519.2
27-OCT-98	9.5	693	95.3	8.5		4519.2
11-NOV-98	9.4	693	91.5	8.2		4522.5
23-NOV-98	9.7	692	95.8	8.3		4525.0
07-DEC-98	9.8	686	96.4	8.4		4526.7
22-DEC-98	9.6	688	101.6	8.5		4528.5

* Values Exceed Upper Control Limit

MW80

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW81

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.6	823	121.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
07-JUL-98	9.9	676	97.7	8.5	4484.9
20-JUL-98	9.7	674	96.6	8.5	4485.5
03-AUG-98	9.9	667	97.7	8.6	4487.7
18-AUG-98	9.8	668	96.9	8.5	4496.5
31-AUG-98	9.7	671	96.6	8.6	4504.6
15-SEP-98	10.1	670	95.8	8.5	4509.8
28-SEP-98	9.5	677	91.9	8.6	4513.3
13-OCT-98	9.6	672	94.5	8.5	4516.4
27-OCT-98	10.0	666	95.0	8.5	4519.8
11-NOV-98	9.7	667	92.4	8.2	4523.2
23-NOV-98	10.2	667	95.6	8.3	4525.5
07-DEC-98	10.2	664	95.5	8.4	4527.1
22-DEC-98	9.8	666	101.1	8.6	4529.2

* Values Exceed Upper Control Limit

MW81

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW82

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.6	823	121.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
07-JUL-98	10.3	661	95.2	8.5		4478.0
20-JUL-98	10.2	657	95.0	8.4		4478.9
03-AUG-98	10.3	666	96.8	8.6		4481.9
18-AUG-98	10.1	670	96.5	8.4		4493.4
31-AUG-98	10.0	665	96.5	8.6		4499.2
14-SEP-98	9.8	661	92.7	8.6		4504.3
28-SEP-98	10.1	671	95.3	8.6		4508.0
13-OCT-98	10.1	662	93.6	8.5		4511.4
26-OCT-98	10.4	661	94.1	8.6		4514.4
11-NOV-98	10.4	657	93.0	8.4		4517.8
23-NOV-98	9.9	655	95.8	8.6		4519.6
07-DEC-98	10.1	653	90.0	8.4		4522.0
21-DEC-98	10.2	655	89.1	8.4		4523.7

* Values Exceed Upper Control Limit

MW82

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW83

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.6	823	121.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
07-JUL-98	9.9	675	97.8	8.5	4474.4
20-JUL-98	9.8	675	98.2	8.4	4475.7
03-AUG-98	9.8	675	97.9	8.6	4479.0
18-AUG-98	9.6	682	93.3	8.6	4492.7
31-AUG-98	9.8	674	99.4	8.6	4498.8
14-SEP-98	9.5	670	94.8	8.6	4504.1
28-SEP-98	9.7	682	97.4	8.5	4509.8
13-OCT-98	9.7	673	95.0	8.5	4512.9
26-OCT-98	9.8	673	96.5	8.7	4514.4
11-NOV-98	10.1	671	95.7	8.5	4517.6
23-NOV-98	9.6	669	98.2	8.6	4519.7
07-DEC-98	9.8	666	91.9	8.4	4521.8
21-DEC-98	9.7	670	90.5	8.5	4524.8

* Values Exceed Upper Control Limit

MW83

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW84

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.6	823	121.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
07-JUL-98	10.2	672	99.7	8.6	4473.6
20-JUL-98	9.9	665	98.5	8.5	4474.9
03-AUG-98	10.1	671	99.1	8.6	4478.6
18-AUG-98	9.8	670	94.5	8.7	4490.1
31-AUG-98	9.7	669	99.4	8.7	4498.2
14-SEP-98	9.9	667	95.5	8.6	4503.5
28-SEP-98	9.7	679	97.9	8.5	4507.2
13-OCT-98	9.8	670	96.4	8.5	4509.1
26-OCT-98	9.7	670	96.1	8.6	4514.1
11-NOV-98	10.1	660	96.5	8.4	4517.3
23-NOV-98	9.6	668	99.1	8.5	4519.3
07-DEC-98	10.0	666	96.4	8.3	4521.3
21-DEC-98	9.8	666	93.0	8.3	4523.7

* Values Exceed Upper Control Limit

MW84

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW85

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃			msl
Upper Control Limit	13.6	823	121.3			

Date

07-JUL-98	10.3	666	98.6	8.5	4472.6
20-JUL-98	10.2	661	98.3	8.4	4474.1
03-AUG-98	10.4	665	98.0	8.6	4475.7
18-AUG-98	10.1	666	92.7	8.5	4488.8
31-AUG-98	10.1	662	98.8	8.6	4496.7
14-SEP-98	10.1	659	94.1	8.5	4502.0
28-SEP-98	10.1	672	97.2	8.5	4506.0
13-OCT-98	10.2	661	96.0	8.5	4508.6
26-OCT-98	10.2	664	95.3	8.6	4510.4
11-NOV-98	10.5	663	96.2	8.4	4516.2
23-NOV-98	10.0	658	99.8	8.5	4518.4
07-DEC-98	10.1	657	92.4	8.3	4520.6
21-DEC-98	10.2	660	92.8	8.3	4522.6

* Values Exceed Upper Control Limit

MW85

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW86

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.6	823	121.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
07-JUL-98	10.0	666	98.5	8.5	4467.1
20-JUL-98	10.3	664	99.2	8.4	4468.3
03-AUG-98	10.5	670	99.9	8.6	4471.6
18-AUG-98	10.0	671	94.1	8.5	4486.2
31-AUG-98	10.4	668	97.4	8.5	4495.4
14-SEP-98	10.0	665	96.5	8.5	4501.1
28-SEP-98	10.2	673	97.9	8.5	4505.2
13-OCT-98	10.4	659	96.4	8.5	4508.0
26-OCT-98	10.6	666	95.9	8.6	4513.0
11-NOV-98	10.3	664	95.8	8.4	4516.1
23-NOV-98	10.2	661	99.6	8.6	4518.3
07-DEC-98	10.2	659	92.7	8.3	4520.5
21-DEC-98	10.2	657	92.3	8.3	4522.6

* Values Exceed Upper Control Limit

MW86

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW87

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.6	823	121.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
07-JUL-98	10.1	663	97.8	8.4	4465.0
20-JUL-98	10.1	663	98.5	8.4	4466.7
03-AUG-98	10.4	667	99.0	8.6	4468.7
18-AUG-98	9.9	668	94.1	8.5	4484.5
31-AUG-98	9.9	667	93.4	8.5	4492.8
14-SEP-98	9.9	664	95.9	8.5	4501.1
28-SEP-98	10.1	671	98.3	8.5	4505.0
13-OCT-98	10.1	659	96.7	8.4	4507.7
26-OCT-98	10.1	665	95.6	8.6	4510.4
11-NOV-98	10.2	664	95.7	8.3	4516.1
23-NOV-98	9.8	662	98.7	8.4	4515.2
07-DEC-98	9.9	659	91.8	8.3	4516.9
21-DEC-98	10.2	657	92.6	8.3	4519.5

* Values Exceed Upper Control Limit

MW87

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW88

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.6	823	121.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
07-JUL-98	10.2	666	99.2	8.5	4465.8
20-JUL-98	10.2	666	99.2	8.4	4468.1
03-AUG-98	9.2	670	96.9	8.7	4466.7
18-AUG-98	9.9	670	94.0	8.5	4486.3
31-AUG-98	9.5	669	91.5	8.5	4494.5
14-SEP-98	9.8	665	97.2	8.6	4501.4
28-SEP-98	10.0	673	99.3	8.5	4504.5
13-OCT-98	10.1	662	96.5	8.5	4501.4
26-OCT-98	10.1	665	98.1	8.6	4510.1
11-NOV-98	10.1	667	96.2	8.4	4516.1
23-NOV-98	10.1	657	96.6	8.4	4519.2
07-DEC-98	9.8	661	89.6	8.1	4520.9
21-DEC-98	9.9	667	93.0	8.3	4523.4

* Values Exceed Upper Control Limit

MW88

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW89

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.6	823	121.3			

Date

07-JUL-98	15.5	*	724	120.3	8.4		4462.6
20-JUL-98	15.2	*	722	120.0	8.3		4464.6
06-AUG-98	14.0	*	725	126.3	8.9	-1	4473.3
07-AUG-98	14.4	*	718	121.9	8.7	-1	4473.3
10-AUG-98	14.3	*	713	107.6	8.8	-1	4478.3
17-AUG-98	14.3	*	703	105.1	8.9	-1	4485.1
24-AUG-98	14.3	*	708	109.4	8.9	-1	4490.5
31-AUG-98	13.9	*	716	103.6	8.8	-1	4494.4
14-SEP-98	16.2	*	738	122.6	8.6	-1	4502.8
16-SEP-98	15.9	*	729	117.9	8.6	-1	4499.6
17-SEP-98	15.3	*	720	118.9	8.6	-1	4499.2
28-SEP-98	14.5	*	709	108.4	8.8	-1	4505.6
13-OCT-98	13.1		686	100.3	8.8		4509.0
26-OCT-98	15.2	*	717	113.1	8.7		4517.6
09-NOV-98	14.6	*	695	106.2	8.6		4517.0
23-NOV-98	13.9	*	692	104.5	8.6		4519.6
07-DEC-98	12.7		693	94.7	8.5		4522.4
21-DEC-98	13.3		696	100.1	8.5		4524.3

* Values Exceed Upper Control Limit

MW89

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW90

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.6	823	121.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
07-JUL-98	10.1	673	97.3	8.6	4488.8
20-JUL-98	9.7	677	96.5	8.5	4488.9
03-AUG-98	9.0	672	92.9	8.6	4492.0
18-AUG-98	9.7	676	91.2	8.5	4500.8
31-AUG-98	9.7	678	95.9	8.6	4505.9
14-SEP-98	9.5	674	92.4	8.5	4510.4
28-SEP-98	9.5	686	96.7	8.5	4513.6
12-OCT-98	9.6	677	93.9	8.6	4519.8
26-OCT-98	9.9	680	94.8	8.6	4519.8
11-NOV-98	9.5	676	91.1	8.1	4523.0
23-NOV-98	9.8	676	94.0	8.4	4525.9
07-DEC-98	9.5	674	88.6	8.1	4526.7
21-DEC-98	9.4	679	95.6	8.5	4528.6

* Values Exceed Upper Control Limit

MW90

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW101

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	11.6	778	124.6			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
07-JUL-98	9.8	671	96.0	8.6	4491.4
20-JUL-98	9.3	677	92.8	8.6	4491.7
03-AUG-98	9.1	673	92.5	8.6	4494.1
19-AUG-98	9.4	675	95.6	8.7	4503.4
31-AUG-98	9.8	675	93.3	8.7	4497.3
14-SEP-98	9.5	670	90.8	8.5	4512.0
28-SEP-98	9.5	680	93.7	8.7	4515.3
13-OCT-98	9.8	667	92.8	8.4	4518.0
26-OCT-98	9.7	672	93.0	8.6	4520.9
11-NOV-98	9.4	665	88.7	8.3	4523.9
23-NOV-98	9.6	666	89.4	8.4	4526.3
07-DEC-98	10.0	677	89.6	8.0	4527.5
21-DEC-98	10.2	665	93.3	8.5	4529.0

* Values Exceed Upper Control Limit

MW101

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW102

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	11.6	778	124.6			
Date						
07-JUL-98	10.4	657	94.6	8.6		4494.0
20-JUL-98	9.6	660	91.3	8.6		4494.3
03-AUG-98	9.5	662	92.0	8.6		4497.0
19-AUG-98	9.8	662	93.6	8.7		4506.4
31-AUG-98	9.9	663	91.4	8.7		4510.6
14-SEP-98	10.0	660	90.6	8.5		4511.2
28-SEP-98	9.9	680	92.0	8.7		4514.4
13-OCT-98	10.2	660	92.8	8.5		4517.0
26-OCT-98	9.9	660	91.4	8.6		4519.4
11-NOV-98	9.9	653	88.3	8.3		4521.6
23-NOV-98	10.1	656	91.8	8.4		4523.6
07-DEC-98	9.8	660	86.6	8.0		4525.6
21-DEC-98	10.2	658	90.8	8.5		4527.8

* Values Exceed Upper Control Limit

MW102

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW103

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	11.6	778	124.6			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
07-JUL-98	10.1	665	94.4	8.8	4496.7
20-JUL-98	9.3	665	90.6	8.7	4497.1
03-AUG-98	9.1	669	90.3	8.7	4500.1
19-AUG-98	9.5	670	93.3	8.8	4500.1
31-AUG-98	9.8	670	92.4	8.8	4503.9
14-SEP-98	9.9	667	93.4	8.9	4505.9
28-SEP-98	9.6	669	91.7	8.8	4509.1
13-OCT-98	9.8	667	91.8	8.7	4511.3
26-OCT-98	9.8	675	91.9	8.8	4513.7
11-NOV-98	9.8	659	89.5	8.5	4523.5
23-NOV-98	9.6	660	87.4	8.6	4526.0
07-DEC-98	10.2	663	90.8	8.3	4527.7
21-DEC-98	10.1	658	92.6	8.7	4529.6

* Values Exceed Upper Control Limit

MW103

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW104

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	11.6	778	124.6			

Date

07-JUL-98	9.9	671	94.4	8.7		4495.9
20-JUL-98	9.0	681	91.4	8.6		4496.3
03-AUG-98	9.0	678	91.6	8.6		4499.4
19-AUG-98	9.2	685	96.3	8.7		4503.6
31-AUG-98	9.7	684	92.2	8.6		4507.7
14-SEP-98	9.8	677	94.3	8.6		4510.6
28-SEP-98	9.5	675	92.4	8.7		4514.2
13-OCT-98	9.6	686	92.3	8.5		4517.1
26-OCT-98	9.7	694	92.6	8.7		4517.1
11-NOV-98	9.4	676	89.8	8.3		4520.5
23-NOV-98	9.3	677	88.7	8.5		4522.4
07-DEC-98	9.1	684	88.2	8.4		4523.7
21-DEC-98	9.6	678	89.7	8.5		4525.6

* Values Exceed Upper Control Limit

MW104

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW105

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	11.6	778	124.6			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
07-JUL-98	10.5	662	92.8	8.6		4492.3
20-JUL-98	10.0	657	91.7	8.4		4493.3
03-AUG-98	9.7	655	89.2	8.8		4496.9
19-AUG-98	10.1	658	92.0	8.7		4502.4
31-AUG-98	10.1	659	89.9	8.7		4504.5
15-SEP-98	10.1	664	92.5	8.6		4508.2
28-SEP-98	9.9	689	91.9	8.7		4511.5
13-OCT-98	9.9	663	92.2	8.5		4514.2
26-OCT-98	10.1	677	91.2	8.7		4515.6
11-NOV-98	10.1	671	90.6	8.4		4518.2
23-NOV-98	10.1	668	92.6	8.5		4518.7
07-DEC-98	9.6	666	88.4	8.4		4521.3
21-DEC-98	9.5	665	93.5	8.4		4523.0

* Values Exceed Upper Control Limit

MW105

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW106

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	11.6	778	124.6			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
07-JUL-98	10.3	664	93.3	8.6	4489.9
20-JUL-98	10.3	658	92.9	8.4	4491.0
03-AUG-98	9.6	662	89.0	8.7	4494.2
19-AUG-98	10.0	665	93.4	8.7	4498.5
31-AUG-98	10.8	670	90.9	8.6	4502.6
15-SEP-98	10.1	661	91.8	8.6	4505.5
28-SEP-98	9.8	671	90.7	8.7	4508.9
13-OCT-98	10.2	659	91.0	8.6	4513.9
26-OCT-98	10.3	669	90.5	8.7	4513.9
11-NOV-98	10.5	661	89.6	8.4	4517.1
23-NOV-98	10.5	657	90.6	8.5	4518.6
07-DEC-98	9.8	663	87.5	8.4	4520.5
21-DEC-98	9.4	657	90.4	8.5	4522.4

* Values Exceed Upper Control Limit

MW106

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW107

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	11.6	778	124.6			

Date

07-JUL-98	10.5	662	93.8	8.5	4491.0
20-JUL-98	10.4	653	92.5	8.4	4492.1
03-AUG-98	9.5	661	89.1	8.6	4494.9
19-AUG-98	10.1	660	93.9	8.6	4498.8
31-AUG-98	9.9	660	90.2	8.6	4503.8
15-SEP-98	10.1	657	92.5	8.6	4506.7
28-SEP-98	10.0	666	91.7	8.6	4510.3
13-OCT-98	10.1	652	90.5	8.5	4512.8
26-OCT-98	10.3	662	91.4	8.6	4515.3
11-NOV-98	10.5	657	91.6	8.4	4517.9
23-NOV-98	10.7	655	91.3	8.4	4519.5
07-DEC-98	10.1	654	87.9	8.4	4521.1
21-DEC-98	9.8	653	90.4	8.4	4523.8

* Values Exceed Upper Control Limit

MW107

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW108

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	11.6	778	124.6			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
07-JUL-98	11.1	646	90.7	8.7	4487.7
20-JUL-98	10.0	654	87.7	8.6	4488.5
03-AUG-98	10.8	655	91.1	8.6	4491.3
19-AUG-98	10.6	655	91.6	8.4	4498.0
31-AUG-98	10.6	656	89.7	8.7	4502.7
14-SEP-98	10.5	652	90.5	8.7	4505.7
28-SEP-98	10.2	660	89.2	8.4	4509.2
13-OCT-98	10.7	651	90.2	8.6	4514.0
26-OCT-98	10.4	652	89.6	8.7	4514.0
11-NOV-98	10.5	645	86.8	8.4	4516.5
23-NOV-98	11.0	643	90.2	8.5	4518.1
07-DEC-98	10.8	647	90.0	8.4	4520.1
21-DEC-98	10.9	643	90.5	8.5	4522.3

* Values Exceed Upper Control Limit

MW108

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW109

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	11.6	778	124.6			

Date					
07-JUL-98	10.9	651	92.2	8.6	4485.4
20-JUL-98	10.0	647	88.2	8.6	4486.6
03-AUG-98	10.7	655	91.6	8.5	4490.9
19-AUG-98	10.5	658	92.7	8.6	4497.1
31-AUG-98	10.5	655	88.4	8.6	4500.9
14-SEP-98	10.4	652	89.9	8.6	4504.8
28-SEP-98	10.5	658	88.3	8.5	4508.0
13-OCT-98	10.6	651	89.0	8.5	4510.5
26-OCT-98	10.4	651	89.2	8.6	4513.3
11-NOV-98	10.5	646	85.5	8.2	4516.0
23-NOV-98	11.1	646	90.6	8.4	4518.3
07-DEC-98	10.1	648	83.8	8.4	4519.4
21-DEC-98	9.9	642	89.3	8.4	4521.8

* Values Exceed Upper Control Limit

MW109

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW110

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	11.6	778	124.6			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
07-JUL-98	10.5	658	93.1	8.6		4484.2
20-JUL-98	9.6	662	88.9	8.6		4485.5
03-AUG-98	10.4	658	91.7	8.6		4490.1
19-AUG-98	10.1	661	92.6	8.7		4496.7
31-AUG-98	10.0	661	89.8	8.7		4500.8
14-SEP-98	10.1	660	91.9	8.7		4505.4
28-SEP-98	10.0	666	90.6	8.7		4508.6
13-OCT-98	10.2	661	89.4	8.4		4513.9
26-OCT-98	10.0	658	89.9	8.7		4513.9
11-NOV-98	10.1	651	86.7	8.3		4517.5
23-NOV-98	10.6	651	91.8	8.5		4519.5
07-DEC-98	10.1	654	87.8	8.4		4520.7
21-DEC-98	9.6	652	90.1	8.6		4523.8

* Values Exceed Upper Control Limit

MW110

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW111

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	11.6	778	124.6			

Date

07-JUL-98	10.5	660	95.6	8.6	4474.5
20-JUL-98	9.7	661	91.4	8.6	4475.6
03-AUG-98	10.3	662	94.8	8.6	4480.1
19-AUG-98	10.0	664	95.0	8.6	4488.5
31-AUG-98	10.3	662	92.5	8.6	4494.8
14-SEP-98	9.9	658	92.8	8.6	4504.5
28-SEP-98	10.1	664	93.2	8.6	4507.9
13-OCT-98	10.3	658	92.7	8.6	4510.4
26-OCT-98	10.1	659	92.1	8.6	4512.8
11-NOV-98	10.1	649	89.0	8.3	4517.0
23-NOV-98	10.2	651	89.7	8.5	4518.7
07-DEC-98	10.4	652	93.1	8.5	4520.6
21-DEC-98	10.0	650	94.9	8.5	4522.5

* Values Exceed Upper Control Limit

MW111

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW114

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.4	777	129.7			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
08-JUL-98	9.8	680	95.6	8.9	4455.5
21-JUL-98	10.1	675	98.9	8.8	4457.7
06-AUG-98	10.0	678	94.3	8.9	4471.1
19-AUG-98	9.7	669	90.4	8.8	4490.8
01-SEP-98	9.9	671	91.9	8.9	4497.7
16-SEP-98	10.0	667	94.5	9.0	4501.7
29-SEP-98	10.1	676	93.1	8.9	4511.5
14-OCT-98	9.9	662	95.6	9.0	4517.5
28-OCT-98	10.0	664	95.7	8.9	4517.5
13-NOV-98	9.9	659	92.4	8.7	4517.6
24-NOV-98	10.2	669	94.5	8.5	4522.1
08-DEC-98	10.4	671	96.1	8.8	4525.3
22-DEC-98	9.4	670	95.2	8.8	4526.7

* Values Exceed Upper Control Limit

MW114

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW115

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.4	777	129.7			

Date

08-JUL-98	9.5	681	95.8	8.6	4466.4
21-JUL-98	10.0	678	100.0	8.4	4469.1
06-AUG-98	9.8	679	96.0	8.6	4478.6
19-AUG-98	9.4	672	91.6	8.4	4496.9
01-SEP-98	9.3	673	92.7	8.5	4496.7
16-SEP-98	9.7	674	96.0	8.6	4502.0
29-SEP-98	9.7	680	96.1	8.4	4511.7
14-OCT-98	9.6	668	98.8	8.4	4516.3
28-OCT-98	9.6	671	99.8	8.4	4519.2
13-NOV-98	10.0	663	96.5	8.1	4517.8
24-NOV-98	10.0	672	100.0	8.0	4520.0
08-DEC-98	10.1	671	101.2	8.3	4522.4
22-DEC-98	9.4	674	100.2	8.4	4524.9

* Values Exceed Upper Control Limit

MW115

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW116

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.4	777	129.7			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
08-JUL-98	9.2	670	97.8	8.6	4462.8
21-JUL-98	10.0	667	103.7	8.5	4465.6
06-AUG-98	9.9	670	98.3	8.6	4477.3
19-AUG-98	9.4	664	93.0	8.6	4489.6
01-SEP-98	9.5	666	97.9	8.8	4496.9
16-SEP-98	9.6	666	95.6	8.9	4501.0
29-SEP-98	9.5	676	92.1	8.8	4506.7
14-OCT-98	9.6	663	96.4	8.6	4510.2
28-OCT-98	9.7	668	95.8	8.8	4514.2
13-NOV-98	9.9	660	95.0	8.4	4517.3
24-NOV-98	9.8	665	94.2	8.5	4519.6
08-DEC-98	10.1	668	95.9	8.8	4522.1
22-DEC-98	9.3	671	96.5	8.8	4524.2

* Values Exceed Upper Control Limit

MW116

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 4

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 4MW-1

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	11.1	825	116.9			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
13-JUL-98	9.2	654	87.0	8.7	4467.6
27-JUL-98	9.6	665	97.7	8.7	4467.6
10-AUG-98	9.0	655	94.4	8.6	4496.8
24-AUG-98	9.2	661	98.1	8.7	4512.3
08-SEP-98	9.3	662	97.1	8.6	4518.5
21-SEP-98	9.4	663	97.0	8.5	4523.5
05-OCT-98	9.4	670	96.6	8.7	4532.2
19-OCT-98	9.5	665	95.6	8.6	4536.9
02-NOV-98	9.4	663	95.7	8.6	4538.6
16-NOV-98	9.8	655	96.2	8.5	4542.0
30-NOV-98	9.8	662	97.3	8.6	4543.2
14-DEC-98	9.6	658	96.6	8.5	4544.1
28-DEC-98	9.6	664	97.2	8.5	4545.5

* Values Exceed Upper Control Limit

4MW-1

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 4

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 4MW-2

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	11.1	825	116.9			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
13-JUL-98	9.4	672	100.5	8.6	4481.0
27-JUL-98	9.4	664	100.6	8.7	4495.0
10-AUG-98	8.8	660	94.8	8.6	4512.3
24-AUG-98	9.3	662	97.5	8.6	4517.1
08-SEP-98	9.2	662	100.5	8.6	4522.9
21-SEP-98	9.6	664	102.3	8.6	4528.4
05-OCT-98	9.2	660	96.1	8.7	4530.9
19-OCT-98	9.4	663	97.6	8.6	4530.9
03-NOV-98	9.5	657	97.8	8.5	4540.1
16-NOV-98	9.5	666	97.6	8.6	4543.4
30-NOV-98	9.7	667	99.9	8.6	4546.6
14-DEC-98	9.4	654	99.0	8.6	4547.1
28-DEC-98	9.3	654	99.2	8.6	4550.4

* Values Exceed Upper Control Limit

4MW-2

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 4

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 4MW-3

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	11.1	825	116.9			

Date					
13-JUL-98	9.7	661	98.9	8.5	4484.3
27-JUL-98	9.4	664	96.2	8.7	4484.3
10-AUG-98	9.0	654	91.5	8.6	4503.1
24-AUG-98	9.3	656	96.6	8.6	4512.4
08-SEP-98	9.4	660	96.4	8.6	4519.5
21-SEP-98	9.0	661	90.5	8.5	4524.4
05-OCT-98	9.4	667	93.8	8.7	4526.6
19-OCT-98	9.4	660	93.2	8.6	4531.8
02-NOV-98	9.4	663	92.4	8.6	4533.5
16-NOV-98	9.7	653	93.1	8.5	4536.3
30-NOV-98	9.8	657	93.7	8.6	4539.2
14-DEC-98	9.7	652	94.2	8.6	4540.3
28-DEC-98	9.5	660	94.1	8.6	4546.2

* Values Exceed Upper Control Limit

4MW-3

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 4

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 4MW-4

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	11.1	825	116.9			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
13-JUL-98	9.3	680	103.8	8.5	4484.6
27-JUL-98	9.3	674	104.3	8.6	4500.2
10-AUG-98	8.8	670	98.6	8.5	4512.7
24-AUG-98	9.4	671	101.4	8.5	4521.1
08-SEP-98	8.9	659	102.9	8.5	4527.6
21-SEP-98	9.0	671	100.2	8.5	4531.9
05-OCT-98	9.1	667	99.1	8.6	4534.7
19-OCT-98	9.2	669	101.1	8.5	453
03-NOV-98	9.5	667	101.9	8.4	4542.4
16-NOV-98	9.5	677	102.0	8.5	4544.9
30-NOV-98	9.4	674	102.8	8.5	4548.6
14-DEC-98	9.5	664	103.3	8.5	4549.7
28-DEC-98	9.3	666	102.5	8.5	4553.6

* Values Exceed Upper Control Limit

4MW-4

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 4

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 4MW-5

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO_3		mg/l	msl
Upper Control Limit	11.1	825	116.9			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
13-JUL-98	9.4	665	98.4	8.5	4474.0
27-JUL-98	9.5	670	102.6	8.6	4480.1
10-AUG-98	9.1	660	101.5	8.5	4498.5
24-AUG-98	9.2	658	108.4	8.5	4504.0
08-SEP-98	9.5	669	101.8	8.4	4510.7
21-SEP-98	9.1	663	94.0	8.4	4514.0
05-OCT-98	9.5	669	96.7	8.6	4515.9
19-OCT-98	9.4	665	95.6	8.5	4521.3
02-NOV-98	9.6	667	95.2	8.5	4522.6
16-NOV-98	9.8	657	96.6	8.5	4524.7
30-NOV-98	9.8	662	97.5	8.5	4528.9
14-DEC-98	9.7	656	98.4	8.5	4530.7
28-DEC-98	9.5	660	98.2	8.5	4533.5

* Values Exceed Upper Control Limit

4MW-5

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 4

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 4MW-6

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO_3		mg/l	msl
Upper Control Limit	11.1	825	116.9			

Date

13-JUL-98	9.3	674	99.9	8.7		4485.3
27-JUL-98	9.3	674	103.2	8.8		4503.0
10-AUG-98	8.9	668	100.1	8.7		4516.4
24-AUG-98	9.2	670	99.5	8.7		4523.7
08-SEP-98	9.1	662	102.4	8.6		4528.9
21-SEP-98	9.5	670	104.5	8.6		4533.7
05-OCT-98	9.0	666	97.7	8.8		4536.8
19-OCT-98	9.2	669	100.4	8.7		4540.0
03-NOV-98	9.2	667	99.2	8.6		4544.7
16-NOV-98	9.5	667	100.6	8.6		4547.6
30-NOV-98	9.5	668	101.4	8.6		4550.0
14-DEC-98	9.6	662	101.5	8.6		4551.3
28-DEC-98	9.2	662	100.6	8.6		4554.2

* Values Exceed Upper Control Limit

4MW-6

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 4

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 4MW-7

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	11.1	825	116.9			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
13-JUL-98	9.0	663	95.0	8.6	4471.8
27-JUL-98	9.3	667	98.8	8.7	4493.7
10-AUG-98	8.8	658	93.1	8.6	4511.3
24-AUG-98	9.1	658	97.8	8.7	4517.0
08-SEP-98	9.1	669	97.8	8.7	4522.4
21-SEP-98	8.8	663	93.0	8.9	4526.7
05-OCT-98	9.2	668	96.2	9.1	4531.9
19-OCT-98	9.0	658	94.1	9.1	4537.9
02-NOV-98	9.2	665	94.0	9.0	4538.5
16-NOV-98	9.6	656	96.3	8.9	4540.6
30-NOV-98	9.5	658	95.8	8.9	4544.5
14-DEC-98	9.3	653	94.9	8.8	4546.7
28-DEC-98	9.3	657	96.6	8.9	4549.3

* Values Exceed Upper Control Limit

4MW-7

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 4

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 4MW-8

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	11.1	825	116.9			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
13-JUL-98	9.4	680	103.0	8.6	4477.2
27-JUL-98	9.4	676	104.7	8.7	4501.8
10-AUG-98	8.9	671	98.8	8.6	4515.5
24-AUG-98	9.5	672	101.4	8.6	4523.8
08-SEP-98	9.4	660	104.0	8.5	4529.9
21-SEP-98	8.9	672	97.7	8.5	4534.1
05-OCT-98	9.2	668	99.2	8.7	4536.0
19-OCT-98	9.2	671	100.6	8.6	4540.0
03-NOV-98	9.5	668	100.9	8.5	4544.2
16-NOV-98	9.8	676	102.3	8.5	4547.8
30-NOV-98	9.5	674	102.7	8.5	4550.5
14-DEC-98	9.6	666	103.4	8.5	4552.8
28-DEC-98	9.3	664	102.7	8.5	4555.3

* Values Exceed Upper Control Limit

4MW-8

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 4

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 4MW-9

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	11.1	825	116.9			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
13-JUL-98	9.0	665	102.0	8.5	4472.1
27-JUL-98	9.2	668	98.3	8.7	4495.7
10-AUG-98	9.0	658	94.7	8.5	4509.7
24-AUG-98	9.2	660	98.8	8.6	4518.5
08-SEP-98	9.2	672	98.3	8.5	4525.0
21-SEP-98	9.0	664	95.2	8.5	4528.4
05-OCT-98	9.2	668	96.7	8.6	4531.5
19-OCT-98	9.2	662	96.3	8.5	4536.5
03-NOV-98	9.4	666	95.1	8.4	4537.3
16-NOV-98	9.5	658	96.3	8.4	4539.6
30-NOV-98	9.4	661	96.0	8.5	4542.8
14-DEC-98	9.3	654	96.1	8.5	4546.1
28-DEC-98	9.3	656	97.4	8.5	4550.3

* Values Exceed Upper Control Limit

4MW-9

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 4

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 4MW-10

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	11.1	825	116.9			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
13-JUL-98	9.7	678	100.9	8.5	4477.3
27-JUL-98	9.5	672	99.5	8.7	4502.9
10-AUG-98	9.1	665	95.7	8.6	4516.9
24-AUG-98	9.5	666	95.7	8.7	4524.9
08-SEP-98	9.3	660	97.2	8.7	4530.3
24-SEP-98	9.2	667	96.7	8.7	4535.2
05-OCT-98	9.4	660	93.1	8.8	4538.6
20-OCT-98	9.6	659	95.0	8.8	4541.1
03-NOV-98	9.7	664	94.9	8.6	4546.5
16-NOV-98	9.8	669	96.5	8.7	4546.6
30-NOV-98	9.9	668	97.6	8.7	4549.7
14-DEC-98	9.6	658	95.4	8.7	4552.2
28-DEC-98	9.4	664	97.5	8.7	4556.1

* Values Exceed Upper Control Limit

4MW-10

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 4

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 4MW-11

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	11.1	825	116.9			

Date					
13-JUL-98	9.7	663	96.6	8.6	4472.7
27-JUL-98	9.6	670	97.8	8.7	4498.6
10-AUG-98	9.2	664	93.7	8.6	4512.8
24-AUG-98	9.5	668	98.4	8.7	4521.2
08-SEP-98	9.7	663	98.2	8.6	4527.3
21-SEP-98	9.5	668	96.3	8.5	4531.6
05-OCT-98	9.6	676	97.1	8.7	4535.1
19-OCT-98	9.9	667	96.0	8.6	4541.2
03-NOV-98	9.7	674	95.6	8.5	4541.7
16-NOV-98	9.9	663	97.7	8.5	4545.6
30-NOV-98	9.8	669	97.0	8.6	4548.3
14-DEC-98	9.8	660	95.1	8.6	4551.5
28-DEC-98	9.6	662	94.6	8.5	4551.8

* Values Exceed Upper Control Limit

4MW-11

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 4

PERIMETER ORE ZONE MONITOR WELL

2nd Half, 1998

Well I.D. 4MW-12

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	µ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	11.1	825	116.9			

Date

13-JUL-98	9.1	775	101.8	8.6		4482.3
27-JUL-98	9.2	677	102.8	8.8		4506.0
10-AUG-98	9.1	675	98.6	8.7		4517.8
24-AUG-98	9.3	675	98.8	8.8		4527.7
08-SEP-98	9.4	667	100.9	8.8		4533.5
24-SEP-98	9.2	670	99.3	8.8		4537.4
05-OCT-98	9.2	664	95.8	9.0		4539.9
20-OCT-98	9.5	668	97.4	8.9		454
03-NOV-98	9.6	669	96.9	8.8		4547.7
16-NOV-98	9.9	673	97.8	8.7		4550.7
30-NOV-98	9.8	670	98.3	8.8		4554.5
14-DEC-98	9.8	664	97.8	8.7		4556.3
28-DEC-98	9.5	662	98.1	8.8		4558.1

* Values Exceed Upper Control Limit

4MW-12

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 4

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 4MW-13

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	11.1	825	116.9			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
13-JUL-98	9.5	664	93.6	8.5	4472.0
27-JUL-98	9.6	670	98.2	8.6	4501.1
10-AUG-98	9.2	670	94.1	8.5	4515.3
24-AUG-98	9.5	668	98.5	8.6	4523.3
08-SEP-98	9.4	670	98.6	8.5	4530.0
24-SEP-98	9.1	669	94.0	8.6	4533.5
05-OCT-98	9.4	671	96.7	8.6	4536.9
20-OCT-98	9.6	670	97.5	8.6	4541.7
03-NOV-98	9.8	664	94.4	8.4	4542.1
16-NOV-98	10.0	663	96.4	8.4	4545.4
30-NOV-98	9.7	672	96.6	8.5	4548.7
14-DEC-98	10.0	663	98.6	8.5	4551.3
28-DEC-98	9.6	659	96.6	8.5	4553.4

* Values Exceed Upper Control Limit

4MW-13

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 4

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 4MW-14

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO_3		mg/l	msl
Upper Control Limit	11.1	825	116.9			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
13-JUL-98	9.1	673	101.9	8.5	4478.1
27-JUL-98	9.3	677	103.3	8.6	4508.1
10-AUG-98	9.3	680	100.0	8.5	4520.5
24-AUG-98	9.6	676	101.4	8.5	4530.7
08-SEP-98	9.4	667	103.4	8.5	4537.5
24-SEP-98	9.4	678	103.1	8.5	4542.4
05-OCT-98	9.4	668	100.4	8.6	4542.2
20-OCT-98	9.6	674	101.9	8.6	4544.8
03-NOV-98	9.6	671	100.5	8.4	4548.8
16-NOV-98	9.7	678	101.9	8.5	4551.2
30-NOV-98	9.7	676	103.3	8.5	4555.1
14-DEC-98	9.7	668	103.0	8.4	4557.5
28-DEC-98	9.5	667	103.0	8.4	4559.7

* Values Exceed Upper Control Limit

4MW-14

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 4

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 4MW-15

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	11.1	825	116.9			

Date

13-JUL-98	10.1	667	101.6	8.5		4468.4
27-JUL-98	9.9	676	99.4	8.6		4501.8
10-AUG-98	9.6	669	96.7	8.5		4516.1
24-AUG-98	9.8	668	99.6	8.6		4524.0
08-SEP-98	9.7	673	99.5	8.5		4529.9
24-SEP-98	9.4	672	95.0	8.6		4535.2
05-OCT-98	9.8	673	98.7	8.6		4538.5
20-OCT-98	9.9	671	97.5	8.6		4543.7
03-NOV-98	10.1	673	96.8	8.4		4543.9
16-NOV-98	10.2	666	99.3	8.4		4545.9
30-NOV-98	10.0	672	99.3	8.5		4548.1
14-DEC-98	10.1	663	98.7	8.5		4550.2
28-DEC-98	10.0	668	99.3	8.5		4552.8

* Values Exceed Upper Control Limit

4MW-15

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 4

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 4MW-16

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	11.1	825	116.9			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
13-JUL-98	9.0	673	103.7	8.4	4478.6
27-JUL-98	8.8	669	103.6	8.7	4510.4
10-AUG-98	8.6	668	97.5	8.6	4524.3
24-AUG-98	8.7	665	100.0	8.6	4538.2
08-SEP-98	8.7	666	101.4	8.5	4544.5
24-SEP-98	8.8	669	102.1	8.5	4549.2
05-OCT-98	8.6	661	98.7	8.7	4543.5
20-OCT-98	8.8	665	101.3	8.6	4548.6
03-NOV-98	9.0	662	100.9	8.5	4550.7
16-NOV-98	9.1	669	101.2	8.5	4553.6
30-NOV-98	9.1	666	101.7	8.6	4558.1
14-DEC-98	8.9	658	101.7	8.5	4560.3
28-DEC-98	8.9	657	101.2	8.5	4560.6

* Values Exceed Upper Control Limit

4MW-16

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 4

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 4MW-17

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	11.1	825	116.9			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
13-JUL-98	9.7	664	94.7	8.4	4475.7
27-JUL-98	9.8	668	99.9	8.5	4504.2
10-AUG-98	9.6	669	91.1	8.5	4517.6
24-AUG-98	9.7	664	98.2	8.6	4524.7
08-SEP-98	9.7	662	95.7	8.4	4530.2
24-SEP-98	9.2	666	93.1	8.6	4536.2
05-OCT-98	9.7	677	94.4	8.6	4539.7
20-OCT-98	9.9	664	94.6	8.6	4544.1
03-NOV-98	9.8	669	94.1	8.4	4545.1
16-NOV-98	10.1	658	95.0	8.4	4548.1
30-NOV-98	9.9	663	95.5	8.5	4550.0
14-DEC-98	10.1	657	96.3	8.5	4552.6
28-DEC-98	9.7	660	95.4	8.5	4558.2

* Values Exceed Upper Control Limit

4MW-17

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 4

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 4MW-18

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	11.1	825	116.9			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
13-JUL-98	9.7	684	103.9	8.5	4457.8
27-JUL-98	9.8	681	104.1	8.7	4510.3
10-AUG-98	9.3	680	98.5	8.5	4521.4
24-AUG-98	9.7	677	100.8	8.5	4534.8
08-SEP-98	9.5	676	99.9	8.6	4537.0
24-SEP-98	9.5	680	101.9	8.5	4540.9
05-OCT-98	9.4	672	98.8	8.6	4543.0
20-OCT-98	9.7	678	100.3	8.6	4547.0
02-NOV-98	9.8	675	100.2	8.5	4550.0
16-NOV-98	9.9	680	101.6	8.5	4551.7
30-NOV-98	10.1	678	102.1	8.5	4556.0
14-DEC-98	10.2	670	102.1	8.5	4558.3
28-DEC-98	9.9	670	102.6	8.5	4558.5

* Values Exceed Upper Control Limit

4MW-18

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 4

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 4MW-19

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	11.1	825	116.9			

Date

13-JUL-98	9.7	665	95.2	8.4		4469.7
27-JUL-98	9.8	663	98.1	8.6		4504.9
10-AUG-98	9.3	669	92.7	8.4		4519.2
24-AUG-98	9.8	664	100.2	8.5		4526.9
08-SEP-98	9.7	664	97.4	8.4		4532.5
24-SEP-98	9.5	669	95.2	8.5		4536.9
05-OCT-98	9.9	669	97.3	8.5		4539.3
20-OCT-98	9.9	668	96.6	8.5		4543.9
03-NOV-98	10.1	673	96.0	8.3		4546.1
16-NOV-98	10.3	662	97.8	8.3		4549.0
30-NOV-98	10.2	667	98.6	8.4		4550.6
14-DEC-98	10.1	660	97.3	8.4		4552.6
28-DEC-98	9.9	664	97.6	8.4		4555.8

* Values Exceed Upper Control Limit

4MW-19

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 4

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 4MW-20

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	11.1	825	116.9			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
13-JUL-98	9.5	669	104.4	8.5		4503.5
27-JUL-98	9.1	679	104.7	8.6		4534.6
10-AUG-98	8.7	679	99.8	8.5		4547.7
24-AUG-98	8.9	674	101.3	8.5		4556.3
08-SEP-98	8.9	674	101.7	8.5		4540.5
21-SEP-98	8.8	677	101.7	8.5		4543.9
05-OCT-98	8.8	677	99.9	8.6		4546
20-OCT-98	8.9	675	102.6	8.5		4550
02-NOV-98	9.1	671	101.5	8.4		4553.3
16-NOV-98	9.5	679	102.7	8.5		4554.0
30-NOV-98	9.3	678	102.4	8.5		4558.6
14-DEC-98	9.1	668	102.7	8.4		4560.8
28-DEC-98	8.9	671	103.2	8.5		4562.7

* Values Exceed Upper Control Limit

4MW-20

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 4

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 4MW-21

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	11.1	825	116.9			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
13-JUL-98	9.6	663	96.3	8.4	4477.4
27-JUL-98	9.8	661	99.3	8.6	4507.3
10-AUG-98	9.3	666	92.0	8.4	4521.0
24-AUG-98	9.7	661	99.8	8.5	4529.1
08-SEP-98	9.5	661	95.1	8.5	4533.6
24-SEP-98	9.2	663	94.2	8.5	4537.5
05-OCT-98	9.6	667	97.9	8.6	4540.5
20-OCT-98	9.9	664	96.6	8.5	4545.6
02-NOV-98	9.9	660	96.4	8.4	4546.9
16-NOV-98	10.1	658	96.5	8.3	4549.7
30-NOV-98	9.9	663	98.0	8.4	4552.1
14-DEC-98	9.8	655	95.6	8.4	4554.3
28-DEC-98	9.9	659	96.9	8.4	4556.4

* Values Exceed Upper Control Limit

4MW-21

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 4

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 4MW-22

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	11.1	825	116.9			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
13-JUL-98	9.4	682	103.3	8.4	4495.4
27-JUL-98	9.3	681	103.6	8.6	4516.1
10-AUG-98	8.9	679	97.5	8.5	4527.9
24-AUG-98	9.1	675	100.9	8.4	4535.4
08-SEP-98	9.1	671	99.4	8.5	4540.7
21-SEP-98	9.1	675	99.2	8.5	4543.6
05-OCT-98	9.1	674	99.0	8.6	4546.2
20-OCT-98	9.2	674	100.0	8.5	4550.0
02-NOV-98	9.4	671	100.0	8.4	4554.7
16-NOV-98	9.4	679	100.9	8.5	4555.6
30-NOV-98	9.7	677	102.2	8.5	4558.0
14-DEC-98	9.5	667	101.5	8.4	4559.3
28-DEC-98	9.2	673	100.9	8.5	4562.1

* Values Exceed Upper Control Limit

4MW-22

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 4

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 4MW-23

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	11.1	825	116.9			

Date

13-JUL-98	9.3	671	98.5	8.4	4486.0
27-JUL-98	9.6	672	101.2	8.5	4511.1
10-AUG-98	9.3	677	94.2	8.4	4524.9
24-AUG-98	9.4	673	100.5	8.5	4532.0
08-SEP-98	9.3	671	97.0	8.4	4536.7
24-SEP-98	9.1	672	96.6	8.5	4539.3
05-OCT-98	9.5	676	99.7	8.5	4541.9
20-OCT-98	9.5	675	98.4	8.4	4548.2
02-NOV-98	9.5	675	97.7	8.4	4548.8
16-NOV-98	9.8	665	98.4	8.3	4551.1
30-NOV-98	9.7	674	99.9	8.4	4553.8
14-DEC-98	9.8	671	98.4	8.4	4556.5
28-DEC-98	9.5	669	99.1	8.4	4557.9

* Values Exceed Upper Control Limit

4MW-23

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 4

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 4MW-24

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	11.1	825	116.9			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
13-JUL-98	9.5	684	102.2	8.5	4495.9
27-JUL-98	9.3	680	101.0	8.6	4516.6
10-AUG-98	8.9	678	94.8	8.5	4528.7
24-AUG-98	9.3	673	97.4	8.5	4535.2
08-SEP-98	9.1	671	96.9	8.5	4540.0
21-SEP-98	9.2	675	96.2	8.5	4540.0
05-OCT-98	9.2	669	96.7	8.5	4542.2
20-OCT-98	9.4	673	98.5	8.5	4546.0
02-NOV-98	9.4	670	98.3	8.4	4552.4
16-NOV-98	9.4	678	98.1	8.5	4554.8
30-NOV-98	9.6	673	99.0	8.5	4556.9
14-DEC-98	9.5	666	98.4	8.4	4558.9
28-DEC-98	9.2	672	99.4	8.5	4561.2

* Values Exceed Upper Control Limit

4MW-24

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 4

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 4MW-25

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	11.1	825	116.9			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
13-JUL-98	9.8	689	103.4	8.6	4493.3
27-JUL-98	9.4	688	100.8	8.6	4514.9
10-AUG-98	9.2	684	97.2	8.5	4526.8
24-AUG-98	9.5	679	104.5	8.7	4531.5
08-SEP-98	9.2	668	98.1	8.5	4538.4
21-SEP-98	9.7	682	103.6	8.6	4541.2
05-OCT-98	9.2	675	96.9	8.6	4543.5
20-OCT-98	9.4	682	99.5	8.5	4548.4
02-NOV-98	9.5	676	98.4	8.4	4553.1
16-NOV-98	9.7	684	100.1	8.4	4553.2
30-NOV-98	9.7	683	100.6	8.5	4555.5
14-DEC-98	9.7	672	100.5	8.4	4557.8
28-DEC-98	9.5	679	100.6	8.5	4559.6

* Values Exceed Upper Control Limit

4MW-25

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW1

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
15-JUL-98	6.9	856	88.1	8.4	4582.0
28-JUL-98	7.6	855	91.5	8.4	4579.0
11-AUG-98	8.0	739	99.1	8.5	4585.0
25-AUG-98	8.4	755	98.2	8.4	4587.0
08-SEP-98	8.6	753	102.4	8.4	4585.0
22-SEP-98	8.6	745	102.1	8.4	4585.0
06-OCT-98	8.8	737	100.9	8.4	4589.0
21-OCT-98	8.9	738	99.0	8.2	4590.0
03-NOV-98	8.4	751	98.3	8.2	4598.0
17-NOV-98	8.5	763	96.9	8.4	4601.0
30-NOV-98	8.1	811	92.9	8.4	4604.0
14-DEC-98	8.0	815	94.7	8.3	4604.0
29-DEC-98	8.5	760	98.2	8.7	4607.0

* Values Exceed Upper Control Limit

5MW1

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW2

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
15-JUL-98	8.6	774	107.4	8.4	4564.0
27-JUL-98	8.5	787	105.8	8.4	4563.0
10-AUG-98	8.2	783	100.7	8.5	4575.0
24-AUG-98	8.3	773	103.1	8.5	4574.0
08-SEP-98	8.4	785	102.6	8.4	4573.0
22-SEP-98	8.2	778	96.6	8.4	4572.0
06-OCT-98	8.4	789	100.5	8.3	4589.0
21-OCT-98	7.9	777	95.4	8.5	4578.0
04-NOV-98	8.5	781	100.5	8.4	4596.0
17-NOV-98	8.7	784	100.0	8.3	4591.0
30-NOV-98	8.7	792	99.7	8.3	4597.0
15-DEC-98	8.5	783	100.1	8.3	4594.0
29-DEC-98	8.4	781	99.9	8.3	4597.0

* Values Exceed Upper Control Limit

5MW2

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW3

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date

15-JUL-98	7.9	750	98.2	8.4		4585.0
28-JUL-98	8.6	739	103.1	8.3		4581.0
11-AUG-98	8.1	733	98.9	8.4		4585.0
25-AUG-98	8.5	739	100.0	8.3		4585.0
08-SEP-98	8.6	747	103.2	8.3		4585.0
22-SEP-98	8.5	747	102.5	8.3		4586.0
06-OCT-98	8.1	768	98.2	8.3		4589.0
21-OCT-98	8.2	770	96.3	8.0		4596.0
03-NOV-98	8.3	767	99.9	8.1		4596.0
17-NOV-98	7.9	825	95.5	8.2		4601.0
30-NOV-98	7.9	846	94.5	8.2		4604.0
14-DEC-98	7.6	870	93.2	8.2		4603.0
29-DEC-98	7.4	858	93.7	8.2		4607.0

* Values Exceed Upper Control Limit

5MW3

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW4

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date

15-JUL-98	9.4	676	115.5	8.5		4567.0
27-JUL-98	9.8	688	114.2	8.4		4565.0
10-AUG-98	8.8	686	110.1	8.6		4578.0
24-AUG-98	9.2	682	113.6	8.6		4581.0
08-SEP-98	9.5	711	113.8	8.6		4577.0
22-SEP-98	9.8	706	109.3	8.5		4577.0
06-OCT-98	9.9	723	112.2	8.4		4580.0
21-OCT-98	11.1	734	111.2	8.6		4582.0
04-NOV-98	18.1	830	145.4 *	8.3		4598.0
17-NOV-98	10.4	715	113.6	8.4		4596.0
30-NOV-98	12.6	754	119.2	8.3		4601.0
15-DEC-98	9.6	709	110.9	8.4		4599.0
29-DEC-98	9.6	715	113.3	8.4		4602.0

* Values Exceed Upper Control Limit

5MW4

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW5

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date

15-JUL-98	6.9	868	89.1	8.3		4586.0
28-JUL-98	7.5	862	92.0	8.2		4581.0
11-AUG-98	7.4	860	90.7	8.3		4583.0
25-AUG-98	8.3	795	95.9	8.3		4581.0
08-SEP-98	8.0	792	98.9	8.3		4583.0
22-SEP-98	7.4	851	93.8	8.3		4584.0
06-OCT-98	7.1	905	89.2	8.2		4585.0
21-OCT-98	7.4	876	88.6	8.1		4581.0
03-NOV-98	7.2	904	88.7	8.1		4592.0
17-NOV-98	7.5	925	88.3	8.2		4600.0
30-NOV-98	7.1	922	88.9	8.1		4603.0
14-DEC-98	6.9	934	88.0	8.1		4603.0
29-DEC-98	7.2	920	89.4	8.1		4605.0

* Values Exceed Upper Control Limit

5MW5

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW6

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
15-JUL-98	9.5	665	114.8	8.5	4569.0
27-JUL-98	9.9	671	115.1	8.5	4567.0
10-AUG-98	9.3	660	110.8	8.6	4578.0
24-AUG-98	9.5	651	114.7	8.6	4583.0
08-SEP-98	9.7	656	115.6	8.6	4577.0
22-SEP-98	9.5	647	108.6	8.6	4577.0
06-OCT-98	9.8	654	113.7	8.5	4581.0
21-OCT-98	9.1	644	106.9	8.6	4582.0
04-NOV-98	9.8	655	111.9	8.5	4597.0
17-NOV-98	9.8	662	112.7	8.5	4596.0
30-NOV-98	9.8	674	111.9	8.4	4600.0
15-DEC-98	10.0	650	113.9	8.4	4599.0
29-DEC-98	9.9	648	113.8	8.4	4602.0

* Values Exceed Upper Control Limit

5MW6

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW7

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
15-JUL-98	9.9	900	98.2	8.4		4585.0
28-JUL-98	11.8	891	104.1	8.4		4579.0
11-AUG-98	8.4	865	94.6	8.7		4580.0
25-AUG-98	7.7	863	92.7	8.6		4577.0
08-SEP-98	7.3	922	93.5	8.9		4580.0
22-SEP-98	7.3	891	92.9	8.7		4581.0
06-OCT-98	7.3	892	91.3	8.7		4585.0
21-OCT-98	7.3	884	88.5	8.3		4580.0
03-NOV-98	7.1	894	89.7	8.3		4588.0
17-NOV-98	7.5	901	89.4	8.5		4598.0
30-NOV-98	7.6	903	91.2	8.4		4602.0
14-DEC-98	7.3	910	90.7	8.5		4600.0
29-DEC-98	6.9	918	88.4	8.4		4602.0

* Values Exceed Upper Control Limit

5MW7

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW8

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO_3		mg/l	msl
Upper Control Limit	23	1423	122.5			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
15-JUL-98	10.5	852	131.0 *	8.1	4576.0
27-JUL-98	10.2	770	122.7 *	8.2	4572.0
10-AUG-98	10.1	748	120.3	8.2	4577.0
24-AUG-98	12.9	798	143.8 *	8.0	4578.0
08-SEP-98	10.4	712	122.5	8.3	4578.0
22-SEP-98	9.2	670	107.3	8.4	4578.0
06-OCT-98	10.5	733	121.1	8.1	4582.0
21-OCT-98	8.9	667	105.9	8.5	4582.0
04-NOV-98	11.8	727	131.1 *	8.1	4590.0
17-NOV-98	10.9	724	121.0	8.4	4595.0
30-NOV-98	10.4	750	118.0	8.2	4600.0
15-DEC-98	10.3	757	118.1	8.2	4598.0
29-DEC-98	10.0	767	118.3	8.2	4602.0

* Values Exceed Upper Control Limit

5MW8

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW10

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
15-JUL-98	8.9	709	106.6	8.5		4580.0
27-JUL-98	8.9	715	106.1	8.4		4574.0
10-AUG-98	8.3	712	102.0	8.5		4578.0
24-AUG-98	8.6	696	106.2	8.5		4577.0
08-SEP-98	8.6	712	105.8	8.5		4578.0
22-SEP-98	8.5	710	105.1	8.5		4578.0
06-OCT-98	8.7	713	104.0	8.3		4582.0
21-OCT-98	8.2	704	98.5	8.5		4583.0
04-NOV-98	8.7	706	103.8	8.5		4588.0
17-NOV-98	9.0	703	105.4	8.4		4595.0
30-NOV-98	9.3	712	104.5	8.4		4600.0
15-DEC-98	8.8	702	105.1	8.4		4598.0
29-DEC-98	9.2	701	107.0	8.4		4602.0

* Values Exceed Upper Control Limit

5MW10

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW12

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.8	1725	145.4			

Date

15-JUL-98	8.7	849	108.1	8.2		4573.0
27-JUL-98	9.0	837	105.9	8.2		4570.0
10-AUG-98	8.5	862	103.5	8.2		4572.0
24-AUG-98	8.9	802	105.1	8.3		4569.0
08-SEP-98	8.7	813	103.8	8.3		4573.0
22-SEP-98	8.7	808	102.6	8.3		4573.0
06-OCT-98	8.7	861	104.4	8.1		4578.0
21-OCT-98	8.5	812	97.5	8.3		4577.0
04-NOV-98	8.8	942	105.7	8.2		4582.0
17-NOV-98	8.5	888	103.5	8.2		4591.0
30-NOV-98	9.0	901	111.2	8.0		4596.0
15-DEC-98	9.1	937	108.6	8.1		4593.0
29-DEC-98	8.8	903	112.2	8.2		4597.0

* Values Exceed Upper Control Limit

5MW12

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW14

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
15-JUL-98	9.0	684	109.2	8.4	4573.0
27-JUL-98	9.1	694	108.0	8.3	4572.0
10-AUG-98	8.5	696	105.0	8.5	4572.0
24-AUG-98	8.9	702	107.4	8.5	4570.0
08-SEP-98	9.1	693	109.8	8.5	4574.0
22-SEP-98	8.9	692	108.6	8.5	4575.0
06-OCT-98	9.0	692	107.2	8.3	4579.0
21-OCT-98	8.3	684	100.1	8.5	457
04-NOV-98	8.9	696	105.9	8.5	4583.0
17-NOV-98	8.8	685	107.1	8.5	4591.0
30-NOV-98	9.4	689	107.8	8.4	4596.0
15-DEC-98	9.2	681	108.1	8.3	4593.0
29-DEC-98	9.2	680	113.2	8.5	4596.0

* Values Exceed Upper Control Limit

5MW14

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW16

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
15-JUL-98	8.2	767	101.3	8.3	4573.0
27-JUL-98	8.4	762	102.5	8.2	4575.0
10-AUG-98	8.1	751	99.1	8.4	4570.0
24-AUG-98	8.2	761	100.9	8.3	4568.0
08-SEP-98	8.4	753	102.6	8.4	4574.0
22-SEP-98	8.5	734	103.2	8.4	4577.0
06-OCT-98	8.3	768	100.0	8.2	4581.0
21-OCT-98	7.9	714	95.7	8.4	4580.0
04-NOV-98	8.5	721	102.1	8.4	4583.0
17-NOV-98	8.7	745	103.4	8.4	4592.0
30-NOV-98	9.3	764	111.6	8.3	4598.0
15-DEC-98	9.0	746	108.4	8.2	4593.0
29-DEC-98	8.3	738	107.9	8.4	4595.0

* Values Exceed Upper Control Limit

5MW16

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW18

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
15-JUL-98	7.8	835	97.3	8.3		4574.0
27-JUL-98	8.2	823	99.2	8.3		4574.0
10-AUG-98	7.9	809	95.7	8.3		4571.0
24-AUG-98	7.8	828	98.0	8.4		4568.0
08-SEP-98	7.7	848	97.4	8.3		4573.0
22-SEP-98	8.1	795	99.4	8.4		4575.0
06-OCT-98	8.0	817	96.6	8.2		4579.0
21-OCT-98	7.6	795	92.4	8.4		4577.0
04-NOV-98	8.1	795	97.7	8.4		4582.0
17-NOV-98	8.4	798	98.1	8.4		4591.0
30-NOV-98	10.3	809	103.6	8.3		4596.0
15-DEC-98	8.6	842	97.8	8.2		4592.0
29-DEC-98	7.8	865	99.8	8.3		4594.0

* Values Exceed Upper Control Limit

5MW18

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW20

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
15-JUL-98	6.6	928	88.6	8.6	4579.0
28-JUL-98	19.1	895	110.6	8.5	4578.0
11-AUG-98	8.3	870	91.8	8.6	4576.0
25-AUG-98	7.3	859	92.1	8.5	4573.0
08-SEP-98	7.4	872	94.4	8.5	4577.0
22-SEP-98	7.1	877	92.2	8.6	4579.0
06-OCT-98	6.9	925	87.2	8.5	4583.0
21-OCT-98	7.3	867	89.1	8.3	4583.0
03-NOV-98	7.1	882	89.9	8.4	4585.0
17-NOV-98	7.1	893	87.2	8.6	4593.0
30-NOV-98	8.5	867	93.2	8.5	4600.0
14-DEC-98	7.3	916	89.7	8.4	4596.0
29-DEC-98	6.9	908	93.2	8.4	4598.0

* Values Exceed Upper Control Limit

5MW20

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW30A

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
15-JUL-98	7.6	680	104.4	8.5	4535.0
28-JUL-98	8.7	664	107.4	8.5	4547.0
11-AUG-98	7.9	678	103.6	8.5	4549.0
26-AUG-98	8.6	675	108.8	8.6	4549.0
09-SEP-98	8.1	683	96.5	7.4	4554.0
22-SEP-98	8.4	673	108.5	8.5	4548.0
07-OCT-98	8.2	676	106.3	8.4	4557.0
22-OCT-98	8.1	665	102.5	8.6	4565.0
04-NOV-98	8.5	665	107.3	8.5	4565.0
17-NOV-98	8.3	679	110.7	8.5	4564.0
01-DEC-98	8.5	670	104.3	8.4	4567.0
16-DEC-98	8.6	677	107.6	8.5	4570.0
29-DEC-98	8.4	675	108.5	8.5	4576.0

* Values Exceed Upper Control Limit

5MW30A

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW31

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date

15-JUL-98	8.1	675	104.7	8.7		4539.0
28-JUL-98	8.6	662	106.6	8.6		4548.0
11-AUG-98	8.1	673	103.1	8.6		4551.0
26-AUG-98	8.5	668	108.1	8.7		4551.0
09-SEP-98	8.4	678	98.5	7.7		4555.0
22-SEP-98	8.5	667	105.9	8.6		4551.0
07-OCT-98	8.5	672	104.2	8.5		4558.0
22-OCT-98	8.3	661	100.9	8.6		4565.0
04-NOV-98	8.4	661	103.6	8.5		4567.0
17-NOV-98	8.4	673	108.8	8.6		4565.0
01-DEC-98	9.0	664	105.8	8.5		4568.0
16-DEC-98	8.7	674	105.9	8.4		4571.0
29-DEC-98	8.6	671	107.2	8.5		4577.0

* Values Exceed Upper Control Limit

5MW31

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW32A

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date

15-JUL-98	8.3	680	107.4	8.5		4540.0
28-JUL-98	8.5	668	108.5	8.5		4551.0
11-AUG-98	8.4	678	109.2	8.6		4553.0
25-AUG-98	8.3	660	107.9	8.6		4552.0
09-SEP-98	8.4	674	104.9	8.6		4556.0
22-SEP-98	8.3	671	101.0	8.5		4552.0
06-OCT-98	8.4	676	104.7	8.3		4560.0
21-OCT-98	8.0	672	100.6	8.5		4560.0
04-NOV-98	8.4	664	105.5	8.5		4569.0
17-NOV-98	8.3	675	110.3	8.5		4568.0
01-DEC-98	8.7	670	105.5	8.5		4572.0
15-DEC-98	8.7	666	106.1	8.3		4574.0
29-DEC-98	8.5	675	107.7	8.5		4579.0

* Values Exceed Upper Control Limit

5MW32A

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW33

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date

15-JUL-98	8.0	677	102.1	8.5		4546.0
28-JUL-98	8.8	666	104.5	8.5		4552.0
11-AUG-98	8.3	675	100.2	8.4		4554.0
26-AUG-98	8.5	669	104.9	8.6		4555.0
09-SEP-98	8.4	678	92.9	7.5		4559.0
22-SEP-98	8.6	669	104.3	8.5		4556.0
07-OCT-98	8.5	670	102.5	8.4		4562.0
22-OCT-98	8.4	663	99.7	8.6		4568.0
04-NOV-98	8.7	663	102.6	8.5		4570.0
17-NOV-98	8.5	674	106.8	8.5		4569.0
01-DEC-98	9.0	666	104.1	8.4		4570.0
16-DEC-98	9.1	674	105.3	8.4		4573.0
29-DEC-98	8.6	672	103.8	8.5		4578.0

* Values Exceed Upper Control Limit

5MW33

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW34

2nd Half.1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date

15-JUL-98	8.4	684	108.6	8.4		4544.0
28-JUL-98	8.6	670	109.3	8.4		4555.0
11-AUG-98	8.1	679	104.6	8.4		4556.0
26-AUG-98	8.4	674	108.7	8.5		4553.0
09-SEP-98	8.3	683	97.2	7.6		4558.0
22-SEP-98	8.5	672	102.9	8.5		4554.0
06-OCT-98	8.5	679	106.6	8.3		4562.0
21-OCT-98	8.1	673	100.9	8.5		4572.0
04-NOV-98	8.4	666	105.5	8.4		4572.0
17-NOV-98	8.2	678	108.5	8.5		4572.0
01-DEC-98	8.9	671	107.4	8.4		4575.0
15-DEC-98	8.8	666	107.6	8.3		4577.0
29-DEC-98	8.5	675	106.9	8.5		4582.0

* Values Exceed Upper Control Limit

5MW34

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW35A

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date

15-JUL-98	8.0	680	103.2	8.7		4553.0
28-JUL-98	8.9	668	105.6	8.6		4557.0
11-AUG-98	8.3	676	101.9	8.5		4558.0
26-AUG-98	8.8	671	106.5	8.7		4560.0
09-SEP-98	8.4	681	96.9	7.9		4563.0
22-SEP-98	8.4	671	104.3	8.6		4561.0
07-OCT-98	8.6	672	104.3	8.4		4565.0
22-OCT-98	8.3	665	99.9	8.6		4570.0
04-NOV-98	8.6	664	103.8	8.5		4573.0
17-NOV-98	8.4	676	106.9	8.6		4569.0
01-DEC-98	9.0	670	105.0	8.5		4570.0
16-DEC-98	8.8	676	105.3	8.5		4574.0
29-DEC-98	8.8	673	105.9	8.5		4574.0

* Values Exceed Upper Control Limit

5MW35A

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW36

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date

15-JUL-98	8.3	687	109.6	8.6		4545.0
28-JUL-98	8.5	675	111.6	8.6		4560.0
11-AUG-98	8.5	678	109.5	8.7		4558.0
26-AUG-98	8.4	678	108.9	8.7		4554.0
09-SEP-98	8.3	683	100.1	8.1		4560.0
22-SEP-98	8.4	675	103.0	8.6		4555.0
06-OCT-98	8.6	682	107.2	8.5		4564.0
21-OCT-98	8.1	676	102.6	8.7		4574.0
04-NOV-98	8.4	667	107.0	8.6		4574.0
17-NOV-98	8.4	680	111.3	8.6		4574.0
01-DEC-98	8.8	676	107.3	8.6		4578.0
16-DEC-98	8.5	680	108.2	8.6		4579.0
29-DEC-98	8.4	679	109.0	8.5		4585.0

* Values Exceed Upper Control Limit

5MW36

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW37

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date

15-JUL-98	8.1	670	101.7	8.7		4559.0
28-JUL-98	8.7	660	104.7	8.7		4562.0
11-AUG-98	8.3	669	101.4	8.5		4561.0
26-AUG-98	8.8	666	108.1	8.7		4563.0
09-SEP-98	8.4	674	96.8	7.9		4566.0
22-SEP-98	8.7	666	107.0	8.7		4564.0
07-OCT-98	8.6	669	106.7	8.6		4569.0
22-OCT-98	8.3	661	102.5	8.7		4573.0
04-NOV-98	8.7	662	106.3	8.6		4575.0
17-NOV-98	8.6	671	110.6	8.6		4575.0
01-DEC-98	9.1	665	108.0	8.6		4571.0
16-DEC-98	8.7	668	107.2	8.5		4577.0
29-DEC-98	8.6	669	107.5	8.5		4581.0

* Values Exceed Upper Control Limit

5MW37

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW38

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
15-JUL-98	9.7	737	134.9 *	8.4		4550.0
28-JUL-98	12.0	764	155.1 *	8.3		4565.0
11-AUG-98	11.8	777	159.1 *	8.3		4561.0
26-AUG-98	12.5	773	156.3 *	8.3		4555.0
09-SEP-98	11.8	771	140.4 *	7.7		4562.0
22-SEP-98	11.9	757	141.6 *	8.3		4557.0
06-OCT-98	11.4	751	140.3 *	8.2		4566.0
21-OCT-98	12.3	792	151.7 *	8.3		4570.0
04-NOV-98	13.7	811	166.8 *	8.1		4577.0
17-NOV-98	12.7	796	166.2 *	8.3		4579.0
01-DEC-98	15.8	845	187.7 *	8.1		4583.0
16-DEC-98	15.5	848	187.6 *	8.0		4582.0
29-DEC-98	15.9	862	193.6 *	8.0		4588.0

* Values Exceed Upper Control Limit

5MW38

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW39A

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
15-JUL-98	8.0	681	105.5	8.5	4563.0
28-JUL-98	8.6	673	107.7	8.6	4567.0
11-AUG-98	8.7	681	109.4	8.5	4562.0
26-AUG-98	8.5	674	107.2	8.6	4564.0
09-SEP-98	8.5	683	98.8	7.8	4568.0
22-SEP-98	8.4	674	106.1	8.6	4567.0
07-OCT-98	8.4	677	105.0	8.5	4575.0
22-OCT-98	8.3	667	100.7	8.6	4578.0
04-NOV-98	8.6	677	103.8	8.5	4581.0
17-NOV-98	8.4	676	108.9	8.5	4580.0
01-DEC-98	8.9	672	104.0	8.4	4570.0
16-DEC-98	8.8	677	105.7	8.4	4581.0
29-DEC-98	8.5	674	104.4	8.5	4586.0

* Values Exceed Upper Control Limit

5MW39A

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW40

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date

15-JUL-98	8.0	681	105.7	8.7		4554.0
28-JUL-98	8.7	678	112.4	8.6		4566.0
11-AUG-98	8.2	685	107.2	8.6		4563.0
26-AUG-98	8.5	675	110.7	8.7		4557.0
09-SEP-98	8.7	685	100.8	8.0		4564.0
22-SEP-98	8.7	675	102.5	8.6		4560.0
06-OCT-98	8.9	679	105.9	8.4		4568.0
21-OCT-98	8.3	675	101.4	8.6		4580.0
04-NOV-98	8.7	677	104.2	8.5		4578.0
17-NOV-98	8.6	678	108.9	8.6		4581.0
01-DEC-98	8.9	674	106.2	8.5		4584.0
16-DEC-98	9.0	678	109.1	8.5		4584.0
29-DEC-98	8.8	679	109.1	8.6		4590.0

* Values Exceed Upper Control Limit

5MW40

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW41A

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO_3		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date

15-JUL-98	7.9	682	106.3	8.5		4569.0
28-JUL-98	8.6	671	107.8	8.4		4574.0
11-AUG-98	8.7	680	110.6	8.4		4568.0
26-AUG-98	8.5	674	109.5	8.5		4574.0
09-SEP-98	8.4	684	102.8	7.6		4574.0
22-SEP-98	8.7	674	108.6	8.5		4575.0
07-OCT-98	8.5	677	106.8	8.3		4581.0
22-OCT-98	8.4	667	102.3	8.5		4587.0
04-NOV-98	8.5	677	104.4	8.4		4587.0
17-NOV-98	8.3	677	108.4	8.5		4588.0
01-DEC-98	8.8	674	107.6	8.6		4577.0
16-DEC-98	8.7	677	107.3	8.3		4589.0
29-DEC-98	8.7	675	107.3	8.4		4592.0

* Values Exceed Upper Control Limit

5MW41A

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW42

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date

15-JUL-98	8.2	682	107.3	8.5		4559.0
28-JUL-98	8.7	675	111.3	8.5		4567.0
11-AUG-98	8.5	682	108.7	8.6		4567.0
26-AUG-98	8.7	677	110.5	8.5		4562.0
09-SEP-98	8.2	686	101.5	7.7		4569.0
22-SEP-98	8.5	677	104.4	8.5		4567.0
06-OCT-98	8.9	681	109.3	8.3		4573.0
21-OCT-98	8.2	681	106.2	8.6		4580.0
04-NOV-98	8.8	670	108.7	8.5		4582.0
17-NOV-98	8.7	680	111.6	8.5		4583.0
01-DEC-98	8.8	676	109.3	8.6		4585.0
16-DEC-98	8.9	680	110.4	8.4		4587.0
29-DEC-98	8.6	679	109.3	8.5		4594.0

* Values Exceed Upper Control Limit

5MW42

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW43

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date

	7.7	686	107.4	8.7		4573.0
28-JUL-98	8.3	675	108.5	8.9		4580.0
11-AUG-98	8.0	687	107.3	8.8		4573.0
26-AUG-98	8.4	680	110.0	8.9		4581.0
09-SEP-98	8.2	690	104.9	8.3		4579.0
22-SEP-98	8.4	667	98.0	8.9		4581.0
07-OCT-98	8.3	681	108.4	8.6		4585.0
22-OCT-98	8.2	671	102.8	8.9		4594.0
04-NOV-98	8.5	681	105.7	8.6		4590.0
17-NOV-98	8.4	681	110.6	8.8		4594.0
01-DEC-98	8.5	673	104.8	8.8		4581.0
16-DEC-98	8.9	681	110.1	8.6		4596.0
29-DEC-98	8.6	681	109.6	8.7		4597.0

*Values Exceed Upper Control Limit

5MW43

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW44

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
15-JUL-98	7.9	683	106.7	8.7		4560.0
28-JUL-98	8.6	675	110.8	8.6		4569.0
11-AUG-98	8.2	683	104.7	8.6		4569.0
26-AUG-98	8.6	679	111.1	8.7		4563.0
09-SEP-98	8.4	687	104.3	8.1		4571.0
22-SEP-98	8.4	679	106.0	8.6		4570.0
06-OCT-98	8.4	686	110.0	8.5		4576.0
21-OCT-98	8.1	678	106.2	8.6		4580.0
04-NOV-98	8.5	672	108.1	8.6		4583.0
17-NOV-98	8.6	679	111.8	8.6		4585.0
01-DEC-98	8.8	678	109.4	8.6		4584.0
16-DEC-98	8.9	683	112.2	8.5		4588.0
29-DEC-98	8.6	682	110.9	8.6		4596.0

* Values Exceed Upper Control Limit

5MW44

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW45

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
15-JUL-98	8.2	686	112.8	8.6	4576.0
28-JUL-98	8.6	677	113.2	8.5	4583.0
11-AUG-98	8.0	685	108.9	8.5	4578.0
26-AUG-98	8.2	681	113.1	8.5	4586.0
09-SEP-98	7.7	688	100.6	7.7	4583.0
22-SEP-98	8.1	678	106.7	8.7	4588.0
07-OCT-98	8.1	680	112.3	8.5	4589.0
22-OCT-98	7.9	670	106.6	8.6	4586.0
04-NOV-98	8.2	678	109.6	8.5	4591.0
17-NOV-98	7.9	684	114.6	8.6	4595.0
01-DEC-98	8.4	680	111.1	8.6	4584.0
16-DEC-98	8.7	684	114.0	8.4	4599.0
29-DEC-98	8.3	681	111.6	8.5	4602.0

* Values Exceed Upper Control Limit

5MW45

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW46

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
15-JUL-98	8.3	686	112.5	8.5	4561.0
28-JUL-98	8.7	690	114.6	8.5	4575.0
11-AUG-98	8.3	690	111.7	8.5	4571.0
25-AUG-98	8.3	668	112.3	8.5	4569.0
09-SEP-98	8.6	687	111.5	8.5	4577.0
22-SEP-98	8.8	681	108.0	8.5	4585.0
06-OCT-98	8.6	687	112.0	8.4	4583.0
21-OCT-98	8.7	679	108.0	8.5	4590.0
04-NOV-98	8.3	687	104.9	8.4	4588.0
17-NOV-98	9.3	671	108.2	8.5	4586.0
01-DEC-98	8.8	676	109.2	8.5	4586.0
16-DEC-98	9.0	687	113.0	8.4	4592.0
29-DEC-98	8.5	686	111.5	8.5	4603.0

* Values Exceed Upper Control Limit

5MW46

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW47B

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date					
15-JUL-98	8.2	692	114.8	8.5	4580.0
28-JUL-98	8.3	681	113.9	8.4	4581.0
11-AUG-98	8.5	689	116.3	8.4	4583.0
26-AUG-98	8.3	684	114.2	8.4	4590.0
09-SEP-98	7.8	693	104.0	7.7	4588.0
22-SEP-98	8.1	683	107.8	8.5	4590.0
07-OCT-98	8.4	685	113.2	8.3	4592.0
22-OCT-98	8.0	677	109.0	8.5	4597.0
04-NOV-98	8.3	687	112.4	8.3	4594.0
17-NOV-98	8.1	689	116.8	8.5	4595.0
01-DEC-98	8.5	686	113.4	8.4	4595.0
16-DEC-98	8.4	689	112.9	8.3	4602.0
29-DEC-98	8.3	684	113.2	8.5	4610.0

* Values Exceed Upper Control Limit

5MW47B

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW48

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	µ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date

15-JUL-98	10.6	597	199.1	*	8.2	4565.0
28-JUL-98	9.1	668	137.2	*	8.4	4577.0
11-AUG-98	8.9	648	149.9	*	8.3	4583.0
11-AUG-98	8.9	648	149.9	*	8.3	4583.0
25-AUG-98	9.2	640	142.7	*	8.3	4574.0
09-SEP-98	9.4	652	144.8	*	8.4	4580.0
22-SEP-98	9.6	640	147.0	*	8.4	4588.0
06-OCT-98	9.4	650	147.3	*	8.4	4588.0
21-OCT-98	10.0	611	166.2	*	8.3	4591.0
04-NOV-98	11.4	567	215.7	*	8.2	4587.0
17-NOV-98	11.7	561	218.8	*	8.3	4585.0
01-DEC-98	11.1	591	197.5	*	8.3	4590.0
16-DEC-98	9.6	656	143.0	*	8.1	4597.0
29-DEC-98	8.7	669	125.2		8.3	4611.0

* Values Exceed Upper Control Limit

5MW48

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW49

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	µ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
15-JUL-98	8.3	693	115.1	8.5	4578.0
28-JUL-98	8.4	687	115.0	8.4	4578.0
11-AUG-98	8.3	690	115.4	8.4	4583.0
26-AUG-98	8.3	686	114.9	8.4	4590.0
09-SEP-98	8.6	693	108.0	7.6	4590.0
22-SEP-98	8.1	683	107.8	8.5	4590.0
07-OCT-98	8.3	685	113.0	8.3	4594.0
22-OCT-98	8.2	678	108.8	8.5	4600.0
04-NOV-98	8.4	687	112.0	8.3	4595.0
17-NOV-98	8.4	685	113.4	8.4	4595.0
01-DEC-98	8.6	686	113.8	8.4	4601.0
15-DEC-98	8.4	688	113.6	8.4	4606.0
29-DEC-98	8.5	684	113.6	8.4	4616.0

* Values Exceed Upper Control Limit

5MW49

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW50

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO_3		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date

15-JUL-98	8.1	695	110.6	8.4		4568.0
28-JUL-98	8.7	694	114.1	8.4		4577.0
11-AUG-98	8.2	695	111.5	8.5		4577.0
25-AUG-98	8.5	680	111.7	8.4		4576.0
09-SEP-98	8.6	692	110.5	8.5		4582.0
22-SEP-98	8.5	688	113.1	8.4		4582.0
06-OCT-98	8.5	690	111.9	8.4		4589.0
21-OCT-98	8.7	685	110.8	8.2		4590.0
03-NOV-98	8.7	681	112.6	8.3		4587.0
17-NOV-98	8.8	684	112.9	8.4		4585.0
01-DEC-98	8.8	687	113.4	8.4		4588.0
15-DEC-98	8.7	690	113.0	8.4		4596.0
29-DEC-98	8.5	682	118.2	8.4		4607.0

* Values Exceed Upper Control Limit

5MW50

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW51

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO_3		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date

15-JUL-98	8.2	691	113.8	8.4		4584.0
28-JUL-98	8.3	690	113.9	8.3		4584.0
11-AUG-98	7.7	689	107.5	8.4		4587.0
26-AUG-98	8.0	683	112.0	8.5		4593.0
09-SEP-98	7.7	693	105.9	8.4		4592.0
22-SEP-98	8.1	682	107.0	8.5		4592.0
07-OCT-98	8.2	685	112.1	8.2		4596.0
22-OCT-98	8.1	680	108.3	8.4		4602.0
04-NOV-98	8.5	692	112.0	8.2		4598.0
17-NOV-98	8.4	684	112.4	8.3		4599.0
01-DEC-98	8.6	685	112.8	8.4		4605.0
15-DEC-98	8.4	688	112.8	8.3		4608.0
29-DEC-98	8.3	687	112.8	8.3		4616.0

* Values Exceed Upper Control Limit

5MW51

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW52

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
15-JUL-98	8.5	706	113.9	8.3	4571.0
28-JUL-98	8.7	701	114.5	8.2	4575.0
11-AUG-98	8.7	704	114.1	8.4	4578.0
25-AUG-98	9.1	691	115.6	8.3	4576.0
09-SEP-98	9.0	703	114.5	8.4	4582.0
22-SEP-98	9.1	695	115.7	8.4	4581.0
06-OCT-98	8.9	698	114.7	8.4	4589.0
21-OCT-98	9.0	692	111.6	8.2	4590.0
03-NOV-98	9.0	691	113.9	8.2	4588.0
17-NOV-98	9.2	688	115.3	8.3	4587.0
01-DEC-98	9.1	693	115.5	8.4	4589.0
15-DEC-98	9.1	696	114.8	8.3	4596.0
29-DEC-98	9.0	690	121.8	8.4	4605.0

* Values Exceed Upper Control Limit

5MW52

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW53

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
15-JUL-98	8.5	695	116.4	8.4	4585.0
28-JUL-98	8.4	690	114.7	8.4	4584.0
11-AUG-98	8.2	694	110.7	8.4	4589.0
26-AUG-98	8.5	683	114.6	8.5	4593.0
09-SEP-98	8.1	698	107.7	8.4	4592.0
22-SEP-98	8.4	688	108.2	8.5	4593.0
07-OCT-98	8.6	693	112.7	8.3	4597.0
22-OCT-98	8.3	684	108.7	8.5	4603.0
04-NOV-98	8.7	691	112.7	8.3	4598.0
17-NOV-98	8.6	688	113.6	8.3	4598.0
01-DEC-98	8.7	689	113.1	8.4	4608.0
15-DEC-98	8.5	691	112.7	8.3	4609.0
29-DEC-98	8.6	690	113.1	8.4	4617.0

* Values Exceed Upper Control Limit

5MW53

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

2nd Half, 1998

Well I.D. 5MW54

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	µ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date

15-JUL-98	9.4	719	116.1	8.4		4575.0
28-JUL-98	9.4	714	115.9	8.3		4577.0
11-AUG-98	9.4	714	115.4	8.5		4580.0
25-AUG-98	9.6	703	116.4	8.4		4578.0
09-SEP-98	9.6	714	114.2	8.5		4585.0
22-SEP-98	9.4	704	116.7	8.4		4583.0
06-OCT-98	9.2	706	114.5	8.5		4592.0
21-OCT-98	9.3	705	111.4	8.3		459
03-NOV-98	9.2	699	112.5	8.2		4589.0
17-NOV-98	9.4	692	113.3	8.3		4588.0
01-DEC-98	9.4	693	114.0	8.4		4589.0
15-DEC-98	9.7	698	116.2	8.3		4596.0
29-DEC-98	9.7	690	118.8	8.4		4606.0

* Values Exceed Upper Control Limit

5MW54

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW55

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
15-JUL-98	8.6	693	113.6	8.4	4583.0
28-JUL-98	8.6	688	112.4	8.4	4583.0
11-AUG-98	8.3	692	107.4	8.4	4591.0
26-AUG-98	8.5	678	112.3	8.5	4594.0
09-SEP-98	8.1	696	105.6	8.4	4594.0
22-SEP-98	8.5	685	105.5	8.5	4596.0
07-OCT-98	8.7	685	112.0	8.3	4598.0
22-OCT-98	8.5	681	107.7	8.5	4603.0
04-NOV-98	8.7	694	111.1	8.3	4595.0
17-NOV-98	8.8	688	110.9	8.3	4595.0
01-DEC-98	8.8	688	111.5	8.4	4610.0
15-DEC-98	9.0	691	112.3	8.3	4609.0
29-DEC-98	8.7	690	112.4	8.4	4619.0

* Values Exceed Upper Control Limit

5MW55

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW56

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
15-JUL-98	9.0	704	114.6	8.5	4568.0
28-JUL-98	8.4	700	109.8	8.4	4567.0
11-AUG-98	8.5	704	115.4	8.5	4572.0
25-AUG-98	8.8	703	112.8	8.5	4569.0
09-SEP-98	8.9	701	110.1	8.5	4577.0
22-SEP-98	9.0	695	112.8	8.5	4577.0
06-OCT-98	8.9	703	111.9	8.3	4583.0
21-OCT-98	9.2	701	111.1	8.3	4590.0
03-NOV-98	8.6	689	110.2	8.2	4589.0
17-NOV-98	8.8	690	111.4	8.4	4586.0
01-DEC-98	9.1	698	112.5	8.4	4587.0
15-DEC-98	9.0	700	112.3	8.3	4592.0
29-DEC-98	8.8	688	117.6	8.4	4599.0

* Values Exceed Upper Control Limit

5MW56

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW57

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date

15-JUL-98	8.6	696	112.0	8.5	4585.0
28-JUL-98	9.0	689	111.7	8.5	4585.0
11-AUG-98	8.3	695	107.8	8.4	4593.0
26-AUG-98	8.5	682	111.4	8.5	4595.0
09-SEP-98	8.2	699	105.5	8.5	4595.0
22-SEP-98	8.6	686	105.3	8.5	4597.0
07-OCT-98	8.5	693	110.8	8.3	4599.0
22-OCT-98	8.6	683	106.2	8.5	4601.0
04-NOV-98	9.0	691	110.9	8.3	4594.0
17-NOV-98	8.8	690	110.4	8.3	4594.0
01-DEC-98	9.2	692	112.5	8.4	4606.0
15-DEC-98	9.0	693	111.4	8.3	4608.0
29-DEC-98	8.8	691	111.4	8.4	4618.0

* Values Exceed Upper Control Limit

5MW57

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW58

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date

15-JUL-98	8.9	693	113.6	8.5	4567.0
27-JUL-98	9.0	696	112.8	8.5	4566.0
10-AUG-98	8.6	695	109.9	8.5	4572.0
24-AUG-98	8.8	674	114.8	8.6	4568.0
08-SEP-98	9.0	692	113.9	8.6	4574.0
22-SEP-98	8.8	683	107.8	8.5	4574.0
07-OCT-98	8.9	692	111.5	8.4	4579.0
21-OCT-98	8.7	683	106.0	8.4	4580.0
04-NOV-98	8.8	691	109.6	8.4	4591.0
17-NOV-98	9.1	686	109.3	8.6	4586.0
30-NOV-98	9.1	687	109.9	8.5	4588.0
14-DEC-98	9.0	686	110.4	8.5	4591.0
29-DEC-98	8.9	679	118.5	8.5	4597.0

* Values Exceed Upper Control Limit

5MW58

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW59

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO_3		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
15-JUL-98	8.9	695	115.2	8.4	4583.0
28-JUL-98	8.7	689	113.1	8.4	4583.0
11-AUG-98	9.0	694	117.5	8.4	4588.0
26-AUG-98	8.6	680	113.5	8.5	4589.0
09-SEP-98	8.5	698	107.6	8.4	4591.0
22-SEP-98	8.8	676	107.9	8.4	4588.0
07-OCT-98	8.9	685	112.1	8.3	4596.0
22-OCT-98	9.1	672	110.3	8.5	4593.0
04-NOV-98	9.4	678	113.8	8.3	4589.0
17-NOV-98	9.5	691	114.5	8.3	4589.0
01-DEC-98	9.5	674	114.3	8.4	4594.0
15-DEC-98	9.5	676	115.5	8.3	4600.0
29-DEC-98	9.3	675	115.0	8.4	4612.0

* Values Exceed Upper Control Limit

5MW59

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW60

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	23.7	779	191.3			

Date

15-JUL-98	11.1	514	247.9	*	8.2	4565.0
27-JUL-98	10.3	631	190.8		8.2	4565.0
10-AUG-98	9.4	720	170.1		8.3	4572.0
24-AUG-98	10.0	651	171.3		8.3	4567.0
08-SEP-98	11.2	512	247.0	*	8.4	4572.0
22-SEP-98	10.6	572	211.6	*	8.4	4571.0
07-OCT-98	10.5	597	212.1	*	8.3	4576.0
21-OCT-98	10.4	577	208.0	*	8.3	458
04-NOV-98	11.1	566	220.5	*	8.2	4593.0
17-NOV-98	10.9	562	219.2	*	8.4	4587.0
30-NOV-98	11.1	580	212.5	*	8.2	4590.0
14-DEC-98	11.2	553	228.5	*	8.2	4590.0
29-DEC-98	11.2	546	237.3	*	8.4	4595.0

* Values Exceed Upper Control Limit

5MW60

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW61

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
15-JUL-98	8.7	696	115.1	8.3		4580.0
28-JUL-98	9.1	692	115.7	8.3		4579.0
11-AUG-98	8.9	695	115.1	8.3		4585.0
26-AUG-98	8.9	683	114.3	8.4		4584.0
09-SEP-98	8.7	687	114.2	8.4		4587.0
22-SEP-98	8.7	686	107.2	8.4		4584.0
07-OCT-98	8.9	697	112.2	8.3		4591.0
22-OCT-98	8.9	683	108.5	8.3		4591.0
04-NOV-98	8.8	690	111.2	8.3		4594.0
17-NOV-98	9.3	691	112.7	8.2		4592.0
01-DEC-98	8.9	689	111.2	8.3		4594.0
15-DEC-98	9.1	691	112.2	8.2		4598.0
29-DEC-98	8.9	689	113.5	8.3		4606.0

* Values Exceed Upper Control Limit

5MW61

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW62

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
15-JUL-98	12.8	876	146.0 *	8.1	4563.0
27-JUL-98	12.4	871	142.7 *	8.1	4562.0
10-AUG-98	14.2	976	168.7 *	7.9	4571.0
24-AUG-98	12.6	853	152.6 *	8.0	4565.0
08-SEP-98	12.9	873	153.5 *	8.2	4569.0
22-SEP-98	11.6	855	122.0	8.2	4568.0
07-OCT-98	10.0	818	116.5	8.3	4573.0
21-OCT-98	9.0	855	105.3	8.1	4571.0
04-NOV-98	9.8	812	116.0	8.2	4594.0
17-NOV-98	10.1	804	127.7	8.3	4587.0
30-NOV-98	12.4	881	147.7 *	8.1	4590.0
15-DEC-98	11.3	798	134.0	8.1	4589.0
29-DEC-98	12.3	871	159.4 *	8.2	4594.0

* Values Exceed Upper Control Limit

5MW62

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW63

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date

15-JUL-98	8.7	672	106.6	8.4	4575.0
27-JUL-98	9.8	678	109.0	8.4	4573.0
10-AUG-98	8.7	688	107.9	8.4	4581.0
24-AUG-98	9.1	673	111.8	8.4	4580.0
09-SEP-98	8.9	687	112.0	8.5	4582.0
21-SEP-98	8.8	688	110.5	8.4	4580.0
06-OCT-98	8.8	685	108.9	8.4	4585.0
21-OCT-98	8.9	681	108.7	8.3	4586.0
03-NOV-98	9.0	680	110.6	8.2	4595.0
17-NOV-98	9.0	683	109.0	8.4	4591.0
30-NOV-98	9.3	685	110.2	8.3	4593.0
14-DEC-98	9.3	686	111.5	8.3	4595.0
29-DEC-98	9.0	682	117.2	8.4	4602.0

* Values Exceed Upper Control Limit

5MW63

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW64

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date

15-JUL-98	9.0	718	113.9	8.4		4563.0
27-JUL-98	9.1	721	112.2	8.4		4561.0
10-AUG-98	8.6	720	108.8	8.4		4573.0
24-AUG-98	9.0	694	113.2	8.4		4569.0
09-SEP-98	9.0	711	113.5	8.5		4570.0
22-SEP-98	9.2	697	108.1	8.4		4569.0
07-OCT-98	9.0	711	112.1	8.4		4573.0
21-OCT-98	8.7	696	106.9	8.3		4573.0
04-NOV-98	9.2	711	111.6	8.4		4597.0
17-NOV-98	9.1	706	110.6	8.5		4589.0
30-NOV-98	9.4	711	111.5	8.5		4593.0
15-DEC-98	9.3	713	111.9	8.3		4591.0
29-DEC-98	9.1	703	119.4	8.4		4596.0

* Values Exceed Upper Control Limit

5MW64

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW65

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	24.9	734	128.1			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
15-JUL-98	9.5	702	107.1	8.4	4572.0
27-JUL-98	10.6	713	111.1	8.3	4571.0
10-AUG-98	9.7	701	108.8	8.3	4582.0
24-AUG-98	10.4	692	113.2	8.3	4583.0
09-SEP-98	10.3	714	113.8	8.4	4582.0
21-SEP-98	10.2	709	111.2	8.4	4580.0
06-OCT-98	10.4	715	110.4	8.4	4584.0
21-OCT-98	10.4	705	110.3	8.2	4586.0
03-NOV-98	9.9	689	109.0	8.1	4601.0
17-NOV-98	10.0	691	107.8	8.4	4594.0
30-NOV-98	10.3	694	109.5	8.3	4597.0
14-DEC-98	10.4	695	111.2	8.3	4598.0
29-DEC-98	10.2	693	115.6	8.3	4603.0

* Values Exceed Upper Control Limit

5MW65

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW66

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
15-JUL-98	15.6	776	131.7	8.3	4562.0
27-JUL-98	17.2	790	137.0 *	8.3	4561.0
11-AUG-98	12.5	762	120.2	8.4	4574.0
24-AUG-98	15.3	759	131.7	8.3	4574.0
09-SEP-98	11.1	777	116.7	8.4	4573.0
22-SEP-98	10.0	774	104.5	8.4	4571.0
07-OCT-98	9.8	777	107.2	8.3	4575.0
21-OCT-98	9.3	759	103.0	8.1	4571.0
04-NOV-98	11.0	772	111.3	8.2	4600.0
17-NOV-98	9.8	764	104.6	8.3	4590.0
30-NOV-98	9.9	765	106.2	8.3	4596.0
15-DEC-98	10.1	767	108.1	8.1	4594.0
29-DEC-98	9.9	754	113.4	8.3	4598.0

* Values Exceed Upper Control Limit

5MW66

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW67

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO_3		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date					
15-JUL-98	7.2	823	90.4	8.2	4575.0
27-JUL-98	7.7	838	93.3	8.2	4573.0
11-AUG-98	7.4	842	90.4	8.3	4585.0
24-AUG-98	7.7	818	92.4	8.3	4589.0
09-SEP-98	7.3	843	92.0	8.3	4585.0
21-SEP-98	7.4	844	90.8	8.3	4584.0
06-OCT-98	7.4	841	89.3	8.3	4587.0
21-OCT-98	7.4	832	89.1	8.1	4589.0
03-NOV-98	7.4	839	90.1	8.0	4604.0
17-NOV-98	7.6	836	90.1	8.3	4598.0
30-NOV-98	7.8	840	90.3	8.2	4601.0
14-DEC-98	7.8	839	91.6	8.2	4601.0
29-DEC-98	7.4	827	91.5	8.3	4606.0

* Values Exceed Upper Control Limit

5MW67

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW69

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
15-JUL-98	9.0	723	110.0	8.5	4578.0
28-JUL-98	8.3	715	104.2	8.4	4576.0
11-AUG-98	8.0	738	97.5	8.6	4585.0
25-AUG-98	8.3	785	101.0	8.7	4588.0
09-SEP-98	8.0	792	100.9	8.7	4585.0
22-SEP-98	8.5	748	99.4	8.6	4585.0
06-OCT-98	8.4	771	101.3	8.6	4588.0
21-OCT-98	8.4	767	101.1	8.4	4590.0
03-NOV-98	7.9	796	95.5	8.3	4602.0
17-NOV-98	8.1	827	91.9	8.6	4599.0
30-NOV-98	8.0	857	92.7	8.5	4603.0
15-DEC-98	8.0	834	93.3	8.4	4603.0
29-DEC-98	8.0	808	94.2	8.6	4606.0

* Values Exceed Upper Control Limit

5MW69

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 6MW17-2

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	20	1576	95.2			

Date

16-SEP-98	5.1	1352	69.6	8.1		4562.0
29-SEP-98	5.0	1343	70.4	8.1		4546.0
15-OCT-98	5.0	1334	69.3	8.1		4563.0
28-OCT-98	5.3	1337	69.3	8.0		4561.1
10-NOV-98	5.4	1320	68.6	7.8		4564.0
24-NOV-98	5.0	1337	71.1	8.2		4564.0
09-DEC-98	5.4	1331	70.5	8.1		4563.7
22-DEC-98	5.1	1319	73.2	8.0		4561.0

* Values Exceed Upper Control Limit

6MW17-2

Negative U308 Grades indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 6MW19

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	20	1576	95.2			

Date

17-SEP-98	5.2	1360	67.2	8.2		4603.0
29-SEP-98	5.3	1376	70.2	8.3		4601.0
13-OCT-98	5.6	1362	68.6	7.9		4606.0
27-OCT-98	5.3	1357	71.5	8.2		4604.0
10-NOV-98	5.5	1354	68.3	7.8		4607.0
24-NOV-98	5.3	1353	72.2	8.1		4606.0
08-DEC-98	5.7	1354	71.1	8.0		4606.0
22-DEC-98	5.5	1344	67.2	8.0		4599.0

* Values Exceed Upper Control Limit

6MW19

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 6MW21

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	20	1576	95.2			

Date

16-SEP-98	5.7	1168	69.4	8.5		4597.0
29-SEP-98	5.0	1298	71.9	8.3		4615.0
13-OCT-98	5.4	1276	68.2	8.1		4603.0
27-OCT-98	5.1	1283	70.9	8.4		4602.0
10-NOV-98	5.4	1275	67.3	8.0		4605.0
23-NOV-98	5.2	1282	72.6	8.3		4603.0
08-DEC-98	5.3	1276	70.9	8.1		4603.0
22-DEC-98	5.4	1257	67.3	8.1		4601.0

* Values Exceed Upper Control Limit

6MW21

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 6MW23

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	20	1576	95.2			

Date

16-SEP-98	7.7	1177	24.6	9.4		4594.0
29-SEP-98	5.3	1292	71.8	8.6		4629.0
13-OCT-98	5.4	1256	58.5	8.6		4600.0
27-OCT-98	5.5	1264	62.8	8.7		4599.0
10-NOV-98	5.7	1262	60.8	8.6		4602.0
23-NOV-98	5.5	1265	62.8	8.7		4601.0
08-DEC-98	5.4	1261	63.5	8.4		4600.0
22-DEC-98	5.5	1242	62.1	8.5		4600.0

* Values Exceed Upper Control Limit

6MW23

Negative U3O8 Grades Indicate Less Than Detection Limit.

Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 6MW25

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	20	1576	95.2			

Date

16-SEP-98	5.7	1210	51.5	8.4		4590.0
29-SEP-98	6.1	1238	67.2	8.5		4628.0
13-OCT-98	5.9	1229	65.7	8.3		4597.0
27-OCT-98	5.8	1226	66.3	8.6		4596.0
10-NOV-98	6.3	1208	66.4	8.3		4599.0
24-NOV-98	6.1	1224	67.5	8.5		4598.0
08-DEC-98	6.1	1232	65.6	8.3		4598.0
22-DEC-98	5.8	1221	63.0	8.3		4597.0

* Values Exceed Upper Control Limit

6MW25

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 6MW27

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	20	1576	95.2			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
07-JUL-98	5.7	1488	71.1	8.7	4588.0
20-JUL-98	6.1	1478	73.8	8.7	4592.0
03-AUG-98	5.7	1460	71.2	8.0	4590.0
17-AUG-98	6.4	1453	66.9	8.2	4590.0
01-SEP-98	6.2	1464	74.5	8.7	4588.0
16-SEP-98	5.8	1452	72.6	8.6	4588.0
29-SEP-98	6.4	1512	70.7	8.7	4638.0
13-OCT-98	6.5	1519	66.4	8.3	4590.0
27-OCT-98	6.2	1495	70.7	8.6	4595.0
10-NOV-98	6.5	1441	70.1	8.5	4599.0
24-NOV-98	6.2	1444	72.9	8.6	4597.0
09-DEC-98	6.3	1442	71.7	8.6	4597.0
22-DEC-98	5.9	1401	69.2	8.5	4596.0

* Values Exceed Upper Control Limit

6MW27

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 6MW29

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO_3		mg/l	msl
Upper Control Limit	20	1576	95.2			

Date

07-JUL-98	4.7	1222	62.0	8.6		4587.0
20-JUL-98	4.9	1284	71.3	9.4		4592.0
03-AUG-98	4.9	1269	58.5	9.3		4589.0
17-AUG-98	5.3	1264	51.4	9.5		4590.0
01-SEP-98	5.4	1261	49.7	9.9		4586.0
16-SEP-98	5.6	1190	59.0	9.1		4586.0
29-SEP-98	5.4	1306	73.0	8.8		4644.0
13-OCT-98	5.4	1254	62.2	9.2		4597.0
27-OCT-98	5.3	1258	60.2	9.5		4596.0
10-NOV-98	5.8	1261	72.4	9.4		4599.0
24-NOV-98	5.7	1233	58.7	9.1		4597.0
09-DEC-98	5.6	1266	53.4	9.3		4596.0
22-DEC-98	5.9	1220	47.0	9.3		4595.0

* Values Exceed Upper Control Limit

6MW29

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 6MW31

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	20	1576	95.2			

Date

07-JUL-98	5.1	1297	68.0	8.2		4578.0
21-JUL-98	4.9	1300	68.8	8.3		4586.0
03-AUG-98	5.0	1285	68.9	8.4		4586.0
17-AUG-98	5.3	1274	68.7	8.5		4586.0
01-SEP-98	5.3	1298	71.5	8.3		4579.0
14-SEP-98	5.1	1301	67.3	8.4		4580.0
29-SEP-98	5.3	1304	69.2	8.2		4622.0
15-OCT-98	5.2	1297	68.0	8.3		4595.0
28-OCT-98	5.3	1297	68.0	8.3		4595.0
10-NOV-98	5.4	1293	70.2	8.4		4598.0
24-NOV-98	5.3	1277	70.3	8.5		4595.0
09-DEC-98	5.4	1299	69.2	8.4		4595.0
22-DEC-98	5.8	1282	68.9	8.3		4593.0

* Values Exceed Upper Control Limit

6MW31

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 6MW33

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	20	1576	95.2			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
07-JUL-98	5.0	1282	70.7	8.1		4568.0
21-JUL-98	5.3	1279	73.7	8.3		4575.0
03-AUG-98	5.0	1273	70.9	8.3		4573.0
17-AUG-98	5.2	1283	73.3	8.2		4573.0
01-SEP-98	5.4	1283	74.8	8.2		4572.0
14-SEP-98	5.1	1280	70.7	8.3		4568.0
29-SEP-98	5.3	1290	73.3	8.1		4613.0
15-OCT-98	5.2	1265	72.8	8.2		4589.0
28-OCT-98	5.3	1283	72.9	8.0		4589.0
10-NOV-98	5.7	1265	71.2	7.9		4593.0
24-NOV-98	5.2	1280	74.9	8.2		4591.0
09-DEC-98	5.3	1278	73.2	8.1		4590.0
22-DEC-98	5.4	1268	72.9	7.8		4589.0

* Values Exceed Upper Control Limit

6MW33

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 6MW34

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	20	1576	95.2			

Date

16-SEP-98	4.9	1363	65.5	8.1		4609.0
29-SEP-98	4.9	1363	66.6	8.1		4588.0
15-OCT-98	4.9	1342	67.5	8.1		4610.0
28-OCT-98	5.0	1358	67.6	7.9		4608.0
10-NOV-98	5.2	1340	66.6	7.9		4611.0
24-NOV-98	5.0	1352	70.2	8.1		4612.0
09-DEC-98	5.1	1358	69.3	8.1		4612.0
22-DEC-98	5.0	1340	72.2	8.0		4612.0

* Values Exceed Upper Control Limit

6MW34

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 6MW35

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	20	1576	95.2			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
07-JUL-98	5.0	1274	71.9	7.8	4566.0
21-JUL-98	5.3	1268	74.9	8.1	4575.0
03-AUG-98	5.0	1265	71.4	7.9	4571.0
17-AUG-98	5.1	1273	75.3	8.0	4574.0
01-SEP-98	5.4	1279	75.4	8.0	4578.0
14-SEP-98	5.1	1275	71.7	8.0	4567.0
29-SEP-98	5.3	1284	73.6	8.0	4611.0
15-OCT-98	5.1	1258	73.2	8.0	4585.0
28-OCT-98	5.3	1276	73.3	7.9	4587.0
10-NOV-98	5.4	1264	72.3	7.8	4590.0
24-NOV-98	5.1	1273	75.3	8.0	4589.0
09-DEC-98	5.5	1277	73.4	8.0	4587.0
22-DEC-98	5.7	1265	73.7	7.7	4587.0

* Values Exceed Upper Control Limit

6MW35

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 6MW36

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	20	1576	95.2			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
07-JUL-98	5.7	1208	68.7	8.2	4606.0
20-JUL-98	6.0	1203	71.2	8.3	4610.0
03-AUG-98	5.7	1191	68.7	8.2	4612.0
17-AUG-98	6.1	1202	68.1	8.2	4611.0
31-AUG-98	5.8	1191	67.9	8.3	4613.0
16-SEP-98	6.0	1207	71.2	8.2	4611.0
29-SEP-98	6.1	1208	70.1	8.2	4589.0
13-OCT-98	6.2	1221	66.3	7.9	4607.0
27-OCT-98	6.0	1201	71.1	8.2	4607.0
10-NOV-98	6.2	1178	70.0	7.9	4610.0
23-NOV-98	6.2	1204	71.9	8.2	4613.0
09-DEC-98	5.9	1267	68.9	8.1	4612.0
22-DEC-98	5.8	1229	66.8	7.9	4610.0

* Values Exceed Upper Control Limit

6MW36

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 6MW37

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	20	1576	95.2			

Date

07-JUL-98	5.5	1199	57.2	8.3	4568.0
21-JUL-98	5.9	1207	65.9	8.4	4581.0
03-AUG-98	5.6	1191	57.8	8.7	4568.0
17-AUG-98	5.8	1228	64.9	8.4	4571.0
01-SEP-98	5.9	1255	68.9	8.2	4580.0
14-SEP-98	5.3	1255	67.0	8.4	4570.0
29-SEP-98	5.3	1280	71.5	8.3	4605.0
15-OCT-98	5.1	1264	70.5	8.2	4582.0
28-OCT-98	5.3	1280	70.8	8.1	4584.0
09-NOV-98	5.4	1279	71.1	8.1	4587.0
24-NOV-98	5.1	1278	72.8	8.2	4587.0
09-DEC-98	5.5	1278	71.5	8.2	4584.0
22-DEC-98	5.7	1265	72.8	7.8	4584.0

* Values Exceed Upper Control Limit

6MW37

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 6MW38

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	20	1576	95.2			

Date

07-JUL-98	4.8	1354	68.4	8.2		4606.0
20-JUL-98	4.8	1353	71.7	8.3		4609.0
03-AUG-98	4.7	1340	69.5	8.2		4611.0
17-AUG-98	4.8	1333	68.3	8.2		4610.0
31-AUG-98	4.7	1334	68.0	8.4		4612.0
16-SEP-98	5.2	1353	69.6	8.2		4611.0
29-SEP-98	4.9	1362	68.1	8.2		4594.0
13-OCT-98	4.9	1360	64.7	8.0		4606.0
27-OCT-98	4.9	1347	68.8	8.3		4606.0
10-NOV-98	5.2	1343	66.5	8.0		4609.0
23-NOV-98	5.0	1348	69.2	8.2		4614.0
09-DEC-98	5.3	1351	68.0	8.2		4613.0
22-DEC-98	5.1	1328	66.0	8.0		4612.0

* Values Exceed Upper Control Limit

6MW38

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 6MW39

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	20	1576	95.2			

Date

07-JUL-98	5.0	1244	51.9	8.8		4561.0
20-JUL-98	5.5	1256	58.7	8.7		4578.0
03-AUG-98	5.0	1247	55.4	8.6		4564.0
17-AUG-98	5.5	1268	59.2	8.7		4573.0
01-SEP-98	5.5	1262	61.8	8.5		4574.0
14-SEP-98	5.2	1260	59.2	8.6		4570.0
29-SEP-98	5.4	1265	62.8	8.5		4594.0
15-OCT-98	5.2	1239	61.3	8.6		4577.0
28-OCT-98	5.4	1261	63.4	8.3		4579.0
10-NOV-98	5.4	1255	62.4	8.4		4582.0
24-NOV-98	5.2	1262	65.1	8.5		4583.0
09-DEC-98	5.6	1263	64.0	8.3		4580.0
22-DEC-98	5.8	1247	63.3	8.2		4580.0

* Values Exceed Upper Control Limit

6MW39

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 6MW40

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	20	1576	95.2			

Date

07-JUL-98	4.8	1372	65.7	8.2		4602.0
20-JUL-98	5.0	1366	68.7	8.3		4603.0
03-AUG-98	4.8	1353	65.7	8.2		4605.0
17-AUG-98	5.0	1350	64.7	8.2		4607.0
31-AUG-98	4.8	1343	65.4	8.3		4610.0
16-SEP-98	5.0	1370	69.0	8.1		4608.0
29-SEP-98	5.0	1380	65.8	8.3		4597.0
13-OCT-98	5.0	1367	61.1	8.1		4600.0
27-OCT-98	4.9	1361	65.7	8.4		4604.0
10-NOV-98	5.0	1359	62.9	8.1		4607.0
23-NOV-98	5.0	1352	68.2	8.3		4613.0
09-DEC-98	6.6	1347	75.2	8.1		4612.0
22-DEC-98	29.4 *	1693 *	270.5 *	7.3	-1	4610.0
23-DEC-98	27.5 *	1638 *	264.5 *	7.5	-1	4598.0
28-DEC-98	16.0	1440	148.5 *	7.9	-1	4596.1

* Values Exceed Upper Control Limit

6MW40

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 6MW41

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	20	1576	95.2			

Date

07-JUL-98	5.1	1292	79.5	7.9		4562.0
21-JUL-98	5.8	1293	90.8	8.2		4581.0
03-AUG-98	6.0	1304	92.6	8.1		4560.0
17-AUG-98	6.8	1333	104.8 *	8.2		4571.0
01-SEP-98	7.8	1337	111.5 *	8.1		4574.0
14-SEP-98	6.9	1325	103.7 *	8.1		4565.0
29-SEP-98	6.6	1325	100.4 *	8.1		4592.0
15-OCT-98	6.4	1306	103.1 *	8.1		4575.0
28-OCT-98	7.7	1336	113.2 *	8.0		4579.0
10-NOV-98	9.1	1363	125.9 *	7.9		4582.0
24-NOV-98	8.9	1365	131.9 *	8.1		4582.0
09-DEC-98	8.4	1346	116.5 *	8.0		4578.0
22-DEC-98	10.5	1365	136.9 *	7.9		4579.0

* Values Exceed Upper Control Limit

6MW41

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 6MW42

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	20	1576	95.2			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
07-JUL-98	4.8	1364	66.1	8.1	4600.4
20-JUL-98	5.2	1359	68.5	8.2	4598.0
03-AUG-98	4.9	1357	65.5	8.1	4600.0
17-AUG-98	5.2	1344	65.2	8.1	4604.0
31-AUG-98	4.8	1339	64.9	8.2	4607.0
16-SEP-98	4.9	1362	67.4	8.0	4606.0
29-SEP-98	5.0	1372	66.5	8.2	4601.0
13-OCT-98	5.0	1357	64.1	7.9	4603.0
27-OCT-98	5.1	1362	68.9	8.2	4603.0
10-NOV-98	5.0	1350	64.5	7.9	4606.0
23-NOV-98	5.1	1352	69.4	8.1	4608.0
09-DEC-98	5.4	1352	68.1	8.0	4608.0
22-DEC-98	5.2	1328	64.9	7.9	4606.0

* Values Exceed Upper Control Limit

6MW42

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 6MW43

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	20	1576	95.2			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
07-JUL-98	5.3	1296	72.6	8.0	4559.0
21-JUL-98	5.5	1280	76.0	8.3	4578.0
03-AUG-98	5.1	1280	72.7	8.2	4560.0
17-AUG-98	5.3	1291	75.5	8.2	4570.0
01-SEP-98	5.4	1287	75.7	8.1	4571.0
14-SEP-98	5.1	1279	73.0	8.1	4562.0
29-SEP-98	5.3	1291	74.5	8.2	4588.0
15-OCT-98	5.6	1267	73.1	8.1	4573.0
28-OCT-98	5.4	1282	74.0	7.9	4577.0
10-NOV-98	6.1	1277	76.7	7.7	4581.0
24-NOV-98	5.3	1282	75.9	8.1	4581.0
09-DEC-98	5.5	1282	74.1	7.9	4577.0
22-DEC-98	5.8	1268	74.6	7.8	4577.0

* Values Exceed Upper Control Limit

6MW43

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 6MW44

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO_3		mg/l	msl
Upper Control Limit	20	1576	95.2			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
07-JUL-98	5.0	1385	63.9	8.0	4599.0
21-JUL-98	5.4	1373	67.2	8.3	4597.0
03-AUG-98	4.9	1358	64.3	8.3	4598.0
17-AUG-98	5.1	1356	63.5	8.2	4600.0
01-SEP-98	5.1	1376	67.5	8.3	4606.0
14-SEP-98	5.0	1376	64.5	8.3	4605.0
29-SEP-98	5.3	1380	65.8	8.1	4602.0
14-OCT-98	4.9	1359	64.7	8.2	4601.0
27-OCT-98	4.9	1355	66.3	8.3	4601.0
10-NOV-98	5.4	1339	64.3	8.3	4605.0
4-NOV-98	5.1	1351	68.9	8.3	4603.0
09-DEC-98	5.5	1364	67.9	8.2	4604.0
22-DEC-98	5.3	1339	65.2	8.0	4601.0

* Values Exceed Upper Control Limit

6MW44

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 6MW45

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	20	1576	95.2			

Date					
07-JUL-98	5.2	1288	69.9	8.0	4553.0
21-JUL-98	5.5	1279	73.8	8.2	4564.0
03-AUG-98	5.0	1271	69.4	8.2	4559.0
17-AUG-98	5.4	1290	72.2	8.2	4564.0
01-SEP-98	5.3	1287	72.6	8.2	4566.0
14-SEP-98	5.4	1288	70.3	8.2	4558.0
29-SEP-98	5.6	1294	71.9	8.1	4588.0
15-OCT-98	5.6	1266	70.3	8.1	4572.0
28-OCT-98	5.8	1282	70.9	8.0	4575.0
10-NOV-98	5.8	1261	72.5	8.1	4579.0
24-NOV-98	5.7	1282	74.7	8.2	4579.0
09-DEC-98	5.9	1284	72.8	8.0	4576.0
22-DEC-98	6.1	1267	72.2	7.8	4576.0

* Values Exceed Upper Control Limit

6MW45

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 6MW46

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	20.6	2427	89.2			

Date

07-JUL-98	14.8	1878	156.2	*	7.9	4600.0
21-JUL-98	16.2	1849	167.6	*	8.0	4598.0
03-AUG-98	13.6	1806	126.0	*	8.3	4597.0
17-AUG-98	12.4	1801	101.6	*	8.1	4602.0
01-SEP-98	8.0	1668	92.8	*	8.0	4605.0
14-SEP-98	7.0	1573	82.9		8.1	4604.0
29-SEP-98	7.8	1535	84.0		8.0	4602.0
14-OCT-98	7.8	1506	82.5		7.9	4598.0
27-OCT-98	8.0	1518	85.6		8.1	4600.0
10-NOV-98	8.3	1492	86.2		8.0	4603.0
24-NOV-98	8.2	1492	86.5		8.0	4600.0
09-DEC-98	8.2	1494	83.1		8.0	4601.0
22-DEC-98	7.9	1476	80.6		7.8	4598.0

* Values Exceed Upper Control Limit

6MW46

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 6MW47

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	20	1576	95.2			

Date

07-JUL-98	5.1	1272	68.8	8.2		4551.0
21-JUL-98	5.6	1268	72.3	8.3		4558.0
03-AUG-98	5.7	1269	70.3	8.6		4558.0
17-AUG-98	6.0	1281	74.5	8.1		4557.0
01-SEP-98	5.3	1278	72.4	8.2		4563.0
14-SEP-98	5.4	1278	69.5	8.2		4553.0
29-SEP-98	5.4	1284	70.1	8.2		4581.0
15-OCT-98	5.3	1260	69.8	8.2		4574.0
28-OCT-98	5.6	1272	69.8	8.0		4577.0
10-NOV-98	5.7	1245	70.7	8.2		4581.0
24-NOV-98	5.5	1273	72.5	8.2		4580.0
09-DEC-98	5.7	1273	71.0	8.2		4577.5
22-DEC-98	5.8	1258	71.3	7.8		4577.0

* Values Exceed Upper Control Limit

6MW47

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 6MW48-3

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	20	1576	95.2			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
07-JUL-98	5.2	1349	67.9	8.3	4603.0
21-JUL-98	5.6	1346	69.7	8.4	4601.0
04-AUG-98	5.6	1329	71.0	8.2	4597.0
17-AUG-98	5.6	1324	67.7	8.1	4597.0
01-SEP-98	5.6	1320	72.6	8.3	4603.5
14-SEP-98	5.7	1316	70.6	8.3	4601.8
29-SEP-98	6.0	1308	71.5	8.2	4606.0
14-OCT-98	5.8	1301	71.0	8.2	4601.0
27-OCT-98	6.3	1293	74.0	8.2	4601.0
10-NOV-98	5.8	1301	67.7	8.2	4605.7
24-NOV-98	6.9	1300	78.4	8.3	4600.0
09-DEC-98	7.7	1318	77.4	8.2	4601.0
22-DEC-98	7.2	1294	73.7	8.1	4598.0

* Values Exceed Upper Control Limit

6MW48-3

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 6MW49

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	20	1576	95.2			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
07-JUL-98	5.3	1287	69.4	8.1	4549.0
21-JUL-98	5.6	1273	72.0	8.4	4552.0
04-AUG-98	5.5	1270	70.8	8.3	4558.0
17-AUG-98	5.5	1265	70.3	8.4	4557.0
01-SEP-98	5.4	1278	72.1	8.3	4561.0
14-SEP-98	5.6	1279	69.5	8.3	4547.0
29-SEP-98	5.4	1290	70.9	8.2	4582.0
15-OCT-98	5.5	1264	70.9	8.1	4576.0
28-OCT-98	5.7	1278	70.8	8.0	4579.0
10-NOV-98	5.8	1278	72.2	8.1	4583.0
24-NOV-98	5.6	1280	73.2	8.2	4583.0
09-DEC-98	5.8	1283	71.8	8.1	4579.0
22-DEC-98	5.8	1269	72.0	7.9	4579.0

* Values Exceed Upper Control Limit

6MW49

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 6MW50

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	20	1576	95.2			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
07-JUL-98	5.5	1276	70.7	7.9	4593.0
21-JUL-98	5.9	1267	73.4	8.2	4591.0
04-AUG-98	5.9	1261	73.2	8.2	4592.0
17-AUG-98	5.7	1276	72.9	8.2	4594.0
01-SEP-98	5.8	1282	73.5	8.2	4599.0
14-SEP-98	5.6	1284	70.3	8.2	4594.0
29-SEP-98	5.7	1284	71.4	8.2	4603.0
14-OCT-98	5.5	1263	68.9	8.1	4596.0
28-OCT-98	5.7	1280	71.2	8.2	4596.0
09-NOV-98	5.8	1275	71.2	8.0	4599.0
24-NOV-98	5.9	1267	74.2	8.1	4598.0
09-DEC-98	5.9	1281	72.0	8.1	4598.0
22-DEC-98	5.7	1258	69.3	8.0	4596.0

* Values Exceed Upper Control Limit

6MW50

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 6MW51

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	20	1576	95.2			

Date

07-JUL-98	5.3	1290	69.0	8.0	4551.0
21-JUL-98	5.7	1281	71.6	8.2	4554.0
04-AUG-98	5.5	1277	71.0	8.2	4559.0
17-AUG-98	5.5	1282	70.3	8.2	4558.0
01-SEP-98	5.4	1291	71.8	8.2	4561.0
14-SEP-98	5.6	1291	68.9	8.2	4551.0
29-SEP-98	5.4	1296	69.9	8.2	4580.0
15-OCT-98	5.5	1274	69.6	8.1	4576.0
28-OCT-98	5.6	1286	70.1	8.2	4579.0
09-NOV-98	5.7	1286	71.2	8.1	4582.0
24-NOV-98	5.5	1288	72.2	8.2	4582.0
09-DEC-98	5.8	1288	71.1	8.1	4579.0
22-DEC-98	5.8	1279	71.2	7.8	4580.0

* Values Exceed Upper Control Limit

6MW51

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 6MW52

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	20	1576	95.2			

Date					
07-JUL-98	5.7	1222	63.4	8.4	4575.0
21-JUL-98	6.1	1215	71.0	8.5	4574.0
04-AUG-98	6.1	1213	73.1	8.5	4576.0
17-AUG-98	6.0	1213	74.9	8.6	4578.0
01-SEP-98	6.0	1225	71.8	8.6	4583.0
14-SEP-98	6.0	1227	62.1	8.7	4581.0
29-SEP-98	5.9	1230	65.4	8.5	4594.0
14-OCT-98	5.7	1216	62.3	8.5	4581.0
28-OCT-98	5.9	1218	55.5	9.0	4590.0
09-NOV-98	5.8	1199	66.1	8.5	4593.0
24-NOV-98	6.0	1208	59.8	8.7	4593.0
09-DEC-98	6.0	1243	64.4	8.4	4591.0
22-DEC-98	5.8	1205	56.2	8.6	4591.0

* Values Exceed Upper Control Limit

6MW52

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 6MW53

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	20	1576	95.2			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
07-JUL-98	6.0	1201	60.0	8.4	4558.0
21-JUL-98	6.4	1190	63.0	8.4	4562.0
04-AUG-98	6.3	1176	64.0	8.4	4563.0
17-AUG-98	6.2	1187	60.3	8.6	4563.0
01-SEP-98	6.0	1199	66.0	8.4	4565.0
14-SEP-98	5.9	1190	55.1	9.0	4564.0
29-SEP-98	6.2	1200	62.6	8.9	4579.0
15-OCT-98	6.2	1184	63.9	8.8	4577.0
28-OCT-98	6.1	1195	63.7	8.8	4579.0
09-NOV-98	6.3	1196	65.4	8.7	4582.0
24-NOV-98	5.9	1204	66.5	8.9	4582.0
09-DEC-98	6.4	1199	64.5	8.6	4581.0
22-DEC-98	6.5	1188	66.1	8.4	4581.0

* Values Exceed Upper Control Limit

6MW53

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

PERIMETER ORE ZONE MONITOR WELL

Well I.D. 6MW54

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	20	1576	95.2			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
07-JUL-98	5.6	1248	66.1	8.0	4563.0
21-JUL-98	6.1	1246	69.1	8.3	4564.0
04-AUG-98	5.9	1239	69.1	8.4	4567.0
17-AUG-98	6.0	1234	69.4	8.4	4569.0
01-SEP-98	5.8	1249	70.0	8.5	4572.0
14-SEP-98	5.8	1243	66.9	8.4	4571.0
29-SEP-98	5.9	1252	67.8	8.2	4587.0
14-OCT-98	5.7	1228	67.8	8.2	4585.0
28-OCT-98	6.0	1243	68.6	8.3	4586.0
09-NOV-98	6.1	1242	69.3	8.2	4589.0
24-NOV-98	6.0	1226	70.9	8.3	4589.0
09-DEC-98	6.0	1241	68.2	8.3	4588.0
22-DEC-98	5.9	1215	64.8	8.2	4588.0

* Values Exceed Upper Control Limit

6MW54

Negative U308 Grades Indicate Less Than Detection Limit.

CHRISTENSEN RANCH
INTERIOR SHALLOW SAND MONITOR WELLS

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. MW-11S

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO_3		mg/l	msl
Upper Control Limit	22.1	2922	316.6			

Date					
15-JUL-98	6.5	1235	108.8	8.1	4652.0
28-JUL-98	6.9	1238	112.5	8.1	4651.0
11-AUG-98	6.6	1245	107.3	8.2	4651.0
25-AUG-98	6.8	1207	108.3	8.1	4650.0
09-SEP-98	6.8	1237	108.3	8.2	4649.0
21-SEP-98	6.7	1218	108.9	8.2	4648.0
06-OCT-98	6.8	1233	108.5	8.1	4647.0
21-OCT-98	6.9	1233	106.0	8.0	4648.0
03-NOV-98	7.0	1228	109.4	8.0	4648.0
17-NOV-98	7.1	1223	108.5	8.1	4649.0
01-DEC-98	7.1	1221	108.6	8.1	4649.0
15-DEC-98	7.1	1219	110.8	8.0	4649.0
29-DEC-98	7.0	1230	110.1	8.1	4650.0

* Values Exceed Upper Control Limit

MW-11S

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. MW46S

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.5	1087	184.4			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
08-JUL-98	11.4	1927 *	127.8	8.0		4550.3
21-JUL-98	12.0	1920 *	131.0	7.9		4550.3
05-AUG-98	12.7	1944 *	133.9	8.0		4550.3
20-AUG-98	13.4	1959 *	137.7	8.0		4550.2
01-SEP-98	13.6 *	1940 *	132.4	8.0	-1	4551.4
02-SEP-98	13.7 *	1849 *	145.3	7.9	-1	4551.4
08-SEP-98	13.6 *	1859 *	142.6	7.9	-1	4551.1
14-SEP-98	13.9 *	1899 *	141.7	8.0	-1	4551.0
22-SEP-98	14.0 *	1880 *	138.3	7.9	-1	4551.0
29-SEP-98	13.9 *	1866 *	138.4	8.0	-1	4551.5
03-NOV-98	13.7 *	1733 *	143.7	7.9	-1	4552.5
12-NOV-98	13.5	1716 *	146.2	7.9	-1	4552.4
17-NOV-98	13.3	1716 *	144.3	7.9	-1	4553.0
24-NOV-98	14.3 *	1719 *	145.7	7.8	-1	4553.1
30-NOV-98	13.3	1694 *	149.5	7.9	-1	4553.2
08-DEC-98	14.0 *	1682 *	148.9	7.9	-1	4553.2
15-DEC-98	13.2	1648 *	155.4	8.0	-1	4553.2
22-DEC-98	13.1	1649 *	141.8	8.0	-1	4553.5
28-DEC-98	12.9	1622 *	153.1	7.9	-1	4553.5

* Values Exceed Upper Control Limit

MW46S

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. MW48S

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl •
Upper Control Limit	22.2	1775	268.3			

Date						
08-JUL-98	10.0	1892	*	121.0	7.9	4557.7
21-JUL-98	9.7	1880	*	126.2	7.8	4557.7
05-AUG-98	10.1	1880	*	126.1	7.9	4557.4
20-AUG-98	9.9	1872	*	120.7	7.9	4557.7
01-SEP-98	9.7	1862	*	119.1	7.9	4557.7
15-SEP-98	10.3	1851	*	124.1	7.9	4557.7
29-SEP-98	9.8	1859	*	119.4	7.9	4557.7
14-OCT-98	10.0	1836	*	124.3	7.8	4557.7
28-OCT-98	9.7	1845	*	125.5	7.8	4557.7
12-NOV-98	10.1	1834	*	127.7	7.7	4557.7
24-NOV-98	10.5	1857	*	127.0	7.6	4557.7
08-DEC-98	9.9	1852	*	120.8	7.7	4557.7
22-DEC-98	10.0	1858	*	121.3	7.8	4557.7

* Values Exceed Upper Control Limit

MW48S

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. MW50S

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.2	1775	268.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
08-JUL-98	9.1	1428	141.4	8.0	4559.1
21-JUL-98	8.8	1424	150.5	7.9	4559.2
05-AUG-98	9.3	1420	158.0	8.0	4559.1
19-AUG-98	9.2	1427	154.9	7.8	4559.0
01-SEP-98	9.5	1424	162.1	8.0	4555.2
15-SEP-98	10.0	1413	164.4	8.0	4555.4
29-SEP-98	9.5	1433	151.7	7.9	4555.4
14-OCT-98	9.4	1414	154.7	7.9	4556.2
28-OCT-98	9.3	1418	159.2	7.9	4556.2
12-NOV-98	9.2	1411	154.1	7.9	4556.5
24-NOV-98	9.2	1440	147.7	7.7	4556.5
09-DEC-98	9.3	1415	151.6	7.9	4556.6
22-DEC-98	9.4	1442	148.5	7.8	4557.1

* Values Exceed Upper Control Limit

MW50S

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. MW52S

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.2	1775	268.3			

Date

08-JUL-98	7.4	1461	102.6	8.2		4547.2
21-JUL-98	7.4	1456	110.9	8.1		4547.2
05-AUG-98	7.8	1431	109.4	8.1		4547.0
19-AUG-98	7.4	1455	103.1	8.1		4546.9
01-SEP-98	7.2	1439	99.7	8.2		4546.8
15-SEP-98	7.6	1389	105.3	8.1		4547.0
29-SEP-98	7.3	1466	102.1	8.2		4547.0
14-OCT-98	7.2	1399	109.8	8.1		4546.9
27-OCT-98	7.5	1429	107.2	8.1		4547.8
13-NOV-98	7.1	1423	100.4	7.9		4547.9
24-NOV-98	7.7	1441	111.9	8.0		4548.1
08-DEC-98	7.7	1445	113.6	8.1		4548.0
22-DEC-98	7.4	1444	104.2	8.0		4547.6

* Values Exceed Upper Control Limit

MW52S

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. MW54S

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.2	1775	268.3			

Date

08-JUL-98	7.2	1513	117.0	8.0		4557.8
21-JUL-98	7.8	1510	126.6	8.0		4557.9
05-AUG-98	7.8	1509	124.3	8.1		4558.0
19-AUG-98	7.9	1519	120.2	7.9		4558.3
01-SEP-98	7.4	1503	118.7	8.0		4558.2
16-SEP-98	7.8	1503	131.1	8.0		4558.7
29-SEP-98	7.6	1499	123.2	8.0		4558.7
14-OCT-98	7.3	1485	124.2	8.0		4559.0
28-OCT-98	7.5	1499	127.4	8.0		4559.0
12-NOV-98	7.8	1486	131.3	7.9		4559.7
24-NOV-98	7.9	1508	117.0	7.8		4559.8
09-DEC-98	7.7	1503	123.0	8.0		4559.9
22-DEC-98	7.0	1513	122.1	7.9		4560.1

* Values Exceed Upper Control Limit

MW54S

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. MW56S

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.5	1087	184.4			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
08-JUL-98	6.0	954	134.2	8.4	4555.7
21-JUL-98	5.9	949	134.0	8.4	4555.8
05-AUG-98	6.5	944	138.8	8.4	4555.8
19-AUG-98	6.2	953	129.0	8.2	4555.8
01-SEP-98	6.2	951	131.8	8.4	4556.1
16-SEP-98	6.6	952	142.0	8.4	4556.5
29-SEP-98	6.3	957	130.9	8.3	4556.6
14-OCT-98	6.3	937	139.0	8.4	4556.5
27-OCT-98	6.4	926	132.7	8.3	4557.7
12-NOV-98	6.2	932	136.9	8.3	4557.6
24-NOV-98	6.3	944	131.7	8.1	4557.6
08-DEC-98	6.5	945	132.5	8.2	4557.6
22-DEC-98	6.1	945	138.7	8.3	4557.8

* Values Exceed Upper Control Limit

MW56S

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. MW58S

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.5	1087	184.4			

Date					
08-JUL-98	6.8	951	121.2	8.7	4565.5
21-JUL-98	7.0	943	123.5	8.7	4565.5
05-AUG-98	7.4	945	122.3	8.6	4565.6
19-AUG-98	7.2	927	107.9	8.6	4565.5
01-SEP-98	7.2	945	119.2	8.6	4565.7
16-SEP-98	7.5	954	126.9	8.7	4565.6
29-SEP-98	7.1	957	118.1	8.6	4565.8
14-OCT-98	7.1	940	123.4	8.6	4566.8
27-OCT-98	7.5	932	115.3	8.5	4566.8
12-NOV-98	7.3	932	121.7	8.6	4566.9
24-NOV-98	7.3	948	121.5	8.4	4566.7
08-DEC-98	7.1	947	119.8	8.4	4566.8
22-DEC-98	7.0	950	125.6	8.6	4566.6

* Values Exceed Upper Control Limit

MW58S

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. MW66S-2

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.2	1775	268.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
08-JUL-98	7.1	1507	112.4	8.1		4572.0
21-JUL-98	7.2	1523	115.4	8.3		4571.9
06-AUG-98	7.4	1513	115.0	7.8		4571.8
19-AUG-98	7.1	1509	111.0	7.8		4571.9
01-SEP-98	7.4	1498	128.7	8.1		4571.8
15-SEP-98	7.6	1509	128.6	8.0		4571.9
29-SEP-98	7.5	1482	122.2	8.0		4571.8
14-OCT-98	7.2	1505	126.6	8.0		4571.8
28-OCT-98	7.3	1473	122.5	7.6		4572.5
12-NOV-98	7.6	1483	115.9	7.8		4572.5
24-NOV-98	7.4	1504	123.5	8.0		4572.6
08-DEC-98	7.5	1493	117.5	7.8		4572.5
22-DEC-98	7.1	1500	118.4	7.9		4572.6

* Values Exceed Upper Control Limit

MW66S-2

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. MW68S

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	23.5	3560	304			

Date

07-JUL-98	12.8	2177	165.7	7.6		4575.5
20-JUL-98	12.8	2189	165.9	7.5		4575.6
03-AUG-98	13.1	2216	172.5	7.7		4575.5
18-AUG-98	13.0	2242	172.1	7.7		4575.8
31-AUG-98	13.2	2154	159.5	7.7		4576.5
15-SEP-98	12.9	2180	163.8	7.6		4575.6
28-SEP-98	13.1	2217	169.6	7.6		4575.5
12-OCT-98	13.7	2104	160.4	7.6		4575.5
27-OCT-98	13.7	2111	162.2	7.6		4575.5
11-NOV-98	13.6	2212	168.4	7.5		4575.6
23-NOV-98	13.0	2197	171.8	7.6		4575.7
07-DEC-98	14.1	2195	161.9	7.5		4575.5
21-DEC-98	14.1	2143	164.6	7.5		4575.6

* Values Exceed Upper Control Limit

MW68S

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. MW70S

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	63.4	21365	5861.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
07-JUL-98	10.1	2042	140.5	11.1	-1	4552.5
21-JUL-98	10.1	2079	160.3	11.3	-1	4552.5
03-AUG-98	11.0	2083	158.2	11.2	-1	4552.6
20-AUG-98	10.8	2010	146.9	11.1	-1	4555.0
31-AUG-98	10.7	1896	106.1	11.0	-1	4549.9
14-SEP-98	11.1	1964	124.4	11.1	-1	4550.1
28-SEP-98	10.8	1943	115.1	11.0	-1	4553.7
13-OCT-98	10.8	2123	155.0	11.2	-1	4553.7
26-OCT-98	10.7	2031	131.9	11.3	-1	4556.1
11-NOV-98	11.3	1883	102.8	10.9	-1	4557.9
23-NOV-98	10.6	1944	120.8	11.2	-1	4558.1
07-DEC-98	10.6	1887	106.1	10.8	-1	4554.1
21-DEC-98	10.8	1914	108.3	10.9	-1	4554.3

* Values Exceed Upper Control Limit

MW70S

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. MW72S

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	63.4	21365	5861.3			

Date

07-JUL-98	12.2	2115	154.1	8.0	-1	4557.9
20-JUL-98	12.3	2129	165.2	7.7	-1	4558.0
03-AUG-98	12.3	2111	163.3	7.7	-1	4558.3
18-AUG-98	12.3	2141	156.2	7.9	-1	4566.9
31-AUG-98	12.1	2136	155.7	7.8	-1	4567.0
14-SEP-98	12.0	2085	146.4	7.9	-1	4567.1
28-SEP-98	12.2	2149	155.8	8.0	-1	4567.2
13-OCT-98	12.4	2109	162.1	7.7	-1	4567.3
26-OCT-98	12.2	2100	155.6	7.8	-1	4567.4
11-NOV-98	13.0	2099	144.0	7.8	-1	4567.5
23-NOV-98	12.0	2116	159.5	8.0	-1	4567.6
07-DEC-98	12.2	2112	149.2	7.8	-1	4567.5
21-DEC-98	12.4	2102	156.8	7.6	-1	4567.6

* Values Exceed Upper Control Limit

MW72S

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. MW92S

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	23.5	3560	304			

Date

07-JUL-98	12.1	2396	144.8	7.6		4572.7
20-JUL-98	12.2	2383	143.8	7.4		4572.6
03-AUG-98	12.1	2400	142.9	7.5		4572.4
18-AUG-98	11.9	2384	137.1	7.6		4572.6
31-AUG-98	11.9	2402	136.1	7.7		4572.3
15-SEP-98	12.0	2395	143.6	7.6		4572.5
28-SEP-98	12.1	2411	143.7	7.6		4572.5
12-OCT-98	12.1	2384	141.5	7.5		4572.7
26-OCT-98	11.8	2377	138.4	7.4		4572.5
11-NOV-98	11.9	2380	135.2	7.4		4572.5
23-NOV-98	12.0	2362	136.2	7.3		4572.7
07-DEC-98	11.7	2369	131.4	7.3		4572.5
21-DEC-98	12.2	2371	134.9	7.3		4572.6

* Values Exceed Upper Control Limit

MW92S

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. MW94S

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	23.5	3560	304			

Date

07-JUL-98	13.6	2571	191.7	7.6		4553.0
20-JUL-98	13.9	2609	195.4	7.4		4553.0
03-AUG-98	13.1	2613	188.3	7.4		4553.0
18-AUG-98	13.6	2623	187.0	7.5		4552.9
31-AUG-98	13.8	2638	193.6	7.5		4552.9
14-SEP-98	8.2	1726	147.8	7.5		4553.0
28-SEP-98	11.8	2361	171.8	7.6		4553.1
12-OCT-98	13.3	2536	186.1	7.5		4553.1
27-OCT-98	12.4	2362	177.6	7.5		4553.1
11-NOV-98	12.8	2480	174.2	7.4		4553.0
23-NOV-98	13.8	2568	187.6	7.3		4553.7
07-DEC-98	13.4	2597	180.4	7.3		4553.8
21-DEC-98	12.9	2622	191.9	7.4		4553.9

* Values Exceed Upper Control Limit

MW94S

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. MW96S

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	23.5	3560	304			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
07-JUL-98	12.1	2731	228.3	7.5	4568.5
20-JUL-98	12.2	2722	222.3	7.3	4568.4
03-AUG-98	11.3	2722	218.1	7.3	4568.8
18-AUG-98	11.9	2727	214.7	7.4	4569.0
31-AUG-98	12.2	2738	213.5	7.4	4568.8
14-SEP-98	11.9	2702	216.1	7.4	4568.9
28-SEP-98	12.0	2746	214.8	7.5	4568.9
12-OCT-98	12.4	2727	223.6	7.3	4568.8
27-OCT-98	12.3	2707	218.6	7.4	4569.0
11-NOV-98	12.4	2711	218.6	7.4	4569.1
23-NOV-98	12.5	2721	223.2	7.3	4569.5
07-DEC-98	11.6	2707	207.7	7.3	4569.6
21-DEC-98	11.5	2724	223.0	7.3	4569.5

* Values Exceed Upper Control Limit

MW96S

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. MW98S

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	63.4	21365	5861.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
07-JUL-98	13.3	2629	170.8	7.6	-1	4558.9
20-JUL-98	13.3	2639	171.9	7.5	-1	4558.8
03-AUG-98	12.4	2628	164.3	7.7	-1	4558.6
18-AUG-98	13.3	2615	161.0	7.7	-1	4558.7
31-AUG-98	13.3	2587	160.3	8.2	-1	4558.6
14-SEP-98	13.3	2610	161.9	8.6	-1	4558.7
28-SEP-98	13.1	2655	158.2	7.8	-1	4558.9
12-OCT-98	13.4	2638	164.9	7.7	-1	4558.6
26-OCT-98	13.2	2630	163.2	7.7	-1	4558.6
11-NOV-98	13.2	2585	158.3	7.6	-1	4558.7
23-NOV-98	13.3	2565	154.7	7.8	-1	4558.8
07-DEC-98	12.8	2606	153.4	7.5	-1	4558.6
21-DEC-98	13.2	2616	156.6	7.5	-1	4558.7

* Values Exceed Upper Control Limit

MW98S

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. MW100S

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	23.5	3560	304			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
07-JUL-98	13.1	2585	175.3	7.5		4556.3
20-JUL-98	13.0	2592	172.8	7.4		4556.1
03-AUG-98	11.9	2585	166.3	7.5		4556.5
19-AUG-98	12.6	2589	172.3	7.5		4556.4
31-AUG-98	13.0	2602	168.2	7.5		4556.0
14-SEP-98	12.9	2600	166.4	7.5		4555.8
28-SEP-98	12.8	2610	167.8	7.5		4556.0
12-OCT-98	13.0	2588	168.6	7.5		4555.8
26-OCT-98	12.8	2587	167.3	7.5		4556.1
11-NOV-98	13.5	2567	171.3	7.3		4556.1
23-NOV-98	13.6	2566	171.6	7.3		4556.0
07-DEC-98	13.6	2566	158.2	7.3		4556.0
21-DEC-98	13.4	2563	167.7	7.4		4556.0

* Values Exceed Upper Control Limit

MW100S

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. MW112S

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	63.4	21365	5861.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
07-JUL-98	12.3	3929	531.1	11.8	-1	4554.0
20-JUL-98	11.1	3909	515.1	11.7	-1	4553.9
03-AUG-98	12.1	3841	490.9	11.6	-1	4554.0
19-AUG-98	12.0	3862	518.8	11.6	-1	4554.1
31-AUG-98	14.0	3823	484.4	11.4	-1	4553.9
14-SEP-98	12.6	3813	418.2	11.3	-1	4554.1
28-SEP-98	13.0	3858	466.2	11.3	-1	4553.9
12-OCT-98	12.9	3852	491.2	11.4	-1	4553.9
26-OCT-98	12.4	3802	426.2	11.4	-1	4553.9
11-NOV-98	13.2	3867	464.2	11.1	-1	4554.0
23-NOV-98	13.2	3969	496.0	11.2	-1	4554.0
07-DEC-98	10.9	3708	363.6	11.0	-1	4554.1
21-DEC-98	12.5	3443	356.4	11.1	-1	4554.0

* Values Exceed Upper Control Limit

MW112S

○ Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. MW117S

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.6	768	144.5			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
07-JUL-98	8.5	723	137.9	8.4	4534.4
20-JUL-98	7.5	725	129.8	8.4	4533.9
03-AUG-98	8.1	729	135.8	8.3	4534.6
19-AUG-98	8.1	728	138.1	8.4	4534.1
31-AUG-98	8.1	729	131.9	8.4	4533.6
14-SEP-98	8.2	726	135.1	8.4	4534.7
28-SEP-98	8.2	733	133.6	8.3	4534.8
12-OCT-98	8.4	725	134.2	8.4	4534.5
26-OCT-98	8.2	724	131.5	8.5	4535.0
11-NOV-98	8.3	718	128.3	8.1	4534.8
23-NOV-98	8.3	717	129.3	8.3	4534.6
07-DEC-98	8.4	721	135.4	8.2	4535.3
21-DEC-98	8.1	717	135.2	8.3	4533.7

* Values Exceed Upper Control Limit

MW117S

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 4

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. 4SM-1

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO_3		mg/l	msl
Upper Control Limit	8.8	1570	142.7			

Date					
13-JUL-98	6.7	1113	103.5	8.2	4608.5
27-JUL-98	6.8	1137	100.3	8.3	4608.7
10-AUG-98	6.4	1136	93.1	8.2	4608.7
24-AUG-98	6.8	1136	96.5	8.1	4608.8
08-SEP-98	6.5	1132	96.3	8.2	4609.2
21-SEP-98	6.7	1156	93.7	8.2	4609.3
05-OCT-98	6.5	1143	94.7	8.3	4609.3
20-OCT-98	6.5	1126	97.6	8.2	4609.3
03-NOV-98	6.6	1138	96.8	8.0	4609.6
16-NOV-98	6.8	1148	99.1	8.1	4609.7
30-NOV-98	6.7	1134	99.5	8.2	4609.8
14-DEC-98	6.8	1141	97.5	8.1	4609.8
28-DEC-98	6.6	1140	99.6	8.2	4610.0

* Values Exceed Upper Control Limit

4SM-1

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 4

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. 4SM-4

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	8.8	1570	142.7			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
13-JUL-98	6.7	1087	104.2	7.9	4596.6
27-JUL-98	6.9	1083	105.7	8.2	4595.7
10-AUG-98	6.8	1079	100.3	8.0	4595.8
24-AUG-98	6.8	1074	103.6	8.0	4595.9
08-SEP-98	6.6	1074	101.0	8.1	4596.0
24-SEP-98	6.5	1077	104.4	8.1	4595.9
05-OCT-98	6.8	1084	100.5	8.2	4596.2
19-OCT-98	6.8	1068	102.6	8.1	4596.3
03-NOV-98	6.7	1070	101.8	8.0	4596.6
16-NOV-98	6.8	1083	102.1	8.0	4596.5
30-NOV-98	7.1	1070	103.9	8.1	4596.7
14-DEC-98	7.0	1071	104.6	8.0	4596.8
28-DEC-98	6.8	1064	105.5	8.1	4596.9

* Values Exceed Upper Control Limit

4SM-4

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 4

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. 4SM-8

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	8.8	1570	142.7			

Date

13-JUL-98	6.9	880	123.7	8.2		4594.1
27-JUL-98	7.0	895	126.9	8.3		4592.5
10-AUG-98	6.7	885	120.1	8.2		4592.2
24-AUG-98	7.0	880	127.1	8.1		4592.3
08-SEP-98	6.8	905	122.8	8.1		4592.2
21-SEP-98	6.5	875	119.0	7.9		4592.1
05-OCT-98	7.0	908	127.0	8.1		4592.1
19-OCT-98	6.8	879	123.9	8.2		4592.1
02-NOV-98	6.5	871	119.7	8.1		4593.0
16-NOV-98	7.0	873	122.9	8.1		4592.7
30-NOV-98	7.1	883	125.9	8.1		4592.6
14-DEC-98	7.1	884	127.1	8.1		4592.6
28-DEC-98	6.8	884	124.8	8.1		4593.4

* Values Exceed Upper Control Limit

4SM-8

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 4

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. 4SRM-07

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO_3		mg/l	msl
Upper Control Limit	19.4	1175	447.1			

Date

13-JUL-98	9.5	494	243.7	8.3	4588.0
27-JUL-98	9.4	498	247.4	8.4	4587.2
10-AUG-98	9.6	500	236.0	8.2	4587.0
24-AUG-98	9.7	496	250.3	8.2	4587.3
08-SEP-98	8.9	506	240.1	7.9	4587.2
24-SEP-98	10.4	505	244.1	8.0	4587.2
05-OCT-98	9.2	497	244.9	8.3	4587.0
19-OCT-98	9.2	491	240.3	8.1	4587.1
02-NOV-98	9.5	496	240.4	8.1	4587.5
16-NOV-98	10.2	491	245.5	8.3	4587.6
30-NOV-98	10.4	494	247.5	8.2	4587.6
14-DEC-98	9.9	495	248.3	8.3	4587.7
28-DEC-98	9.4	496	246.1	8.3	4588.0

* Values Exceed Upper Control Limit

4SRM-07

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

INTERIOR SHALLOW SAND MONITOR WELL

2nd Half, 1998

Well I.D. 5SM1

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.1	2922	316.6			

Date

15-JUL-98	7.2	1283	93.5	8.2		4632.0
28-JUL-98	7.1	1281	93.8	8.1		4630.0
11-AUG-98	7.4	1281	94.7	8.1		4631.0
25-AUG-98	7.6	1273	96.6	8.3		4631.0
09-SEP-98	7.5	1282	97.1	8.3		4631.0
22-SEP-98	7.8	1278	97.4	8.2		4631.0
06-OCT-98	7.7	1281	96.2	8.2		4631.0
21-OCT-98	7.7	1272	95.5	8.1		4631.0
03-NOV-98	7.5	1270	96.1	7.9		4631.0
17-NOV-98	7.9	1274	95.7	8.2		4631.0
01-DEC-98	7.9	1276	96.8	8.1		4632.0
15-DEC-98	7.8	1280	97.3	8.0		4631.0
29-DEC-98	7.6	1267	97.3	8.2		4631.0

* Values Exceed Upper Control Limit

5SM1

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. 5SM2

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.1	2922	316.6			

Date

15-JUL-98	6.6	1184	96.6	8.2		4676.0
28-JUL-98	6.7	1178	95.6	8.1		4676.0
11-AUG-98	7.2	1177	96.2	8.1		4676.0
25-AUG-98	7.1	1175	97.4	8.2		4675.0
09-SEP-98	7.1	1180	98.6	8.2		4675.0
22-SEP-98	7.4	1180	98.6	8.1		4675.0
06-OCT-98	7.1	1173	97.2	8.0		4675.0
21-OCT-98	7.2	1169	96.9	7.9		4675.0
03-NOV-98	6.9	1158	96.6	7.8		4675.0
17-NOV-98	6.9	1165	100.7	8.2		4676.0
01-DEC-98	7.4	1170	98.4	8.0		4676.0
15-DEC-98	7.4	1178	97.9	7.9		4676.0
29-DEC-98	7.0	1166	98.2	8.0		4677.0

* Values Exceed Upper Control Limit

5SM2

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. 5SM3

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.1	2922	316.6			

Date

15-JUL-98	7.7	1294	95.5	8.2		4675.0
28-JUL-98	7.2	1290	91.3	8.1		4675.0
11-AUG-98	7.8	1293	92.8	8.1		4675.0
25-AUG-98	7.4	1290	93.9	8.2		4675.0
09-SEP-98	7.5	1293	95.4	8.3		4674.0
22-SEP-98	7.7	1300	92.9	8.1		4674.0
06-OCT-98	7.4	1299	90.5	8.2		4675.0
21-OCT-98	7.7	1294	91.3	8.0		4675.0
03-NOV-98	7.5	1283	91.7	7.9		4675.0
17-NOV-98	7.3	1296	93.8	8.1		4675.0
01-DEC-98	7.8	1294	92.2	8.1		4675.0
15-DEC-98	7.7	1301	92.6	8.0		4676.0
29-DEC-98	7.6	1285	93.1	8.1		4676.0

* Values Exceed Upper Control Limit

5SM3

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. 5SM5

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.1	2922	316.6			

Date

15-JUL-98	6.1	1514	132.0	7.7		4682.0
28-JUL-98	6.1	1519	129.3	7.8		4682.0
11-AUG-98	6.4	1511	126.8	7.9		4682.0
25-AUG-98	6.4	1503	129.1	7.8		4682.0
09-SEP-98	6.6	1489	129.7	7.9		4682.0
21-SEP-98	6.3	1469	122.7	7.8		4681.0
06-OCT-98	6.5	1507	128.4	7.8		4682.0
21-OCT-98	6.6	1493	127.7	7.6		4682.0
03-NOV-98	6.4	1495	131.0	7.6		4682.0
17-NOV-98	6.5	1505	127.0	7.8		4683.0
30-NOV-98	6.6	1464	124.2	7.7		4683.0
14-DEC-98	6.7	1467	124.9	7.7		4683.0
29-DEC-98	6.4	1478	130.5	7.7		4683.0

* Values Exceed Upper Control Limit

5SM5

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. 5SM6

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.1	2922	316.6			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
15-JUL-98	9.5	670	194.2	8.4	4667.0
28-JUL-98	9.0	667	186.0	8.3	4667.0
11-AUG-98	9.4	670	189.0	8.3	4667.0
25-AUG-98	9.6	671	190.9	8.4	4667.0
09-SEP-98	9.6	670	191.7	8.3	4667.0
21-SEP-98	9.6	672	191.1	8.3	4667.0
06-OCT-98	9.7	672	186.3	8.4	4668.0
21-OCT-98	9.7	668	187.2	8.3	4669.0
03-NOV-98	9.6	667	189.1	8.2	4669.0
17-NOV-98	9.5	678	186.4	8.4	4669.0
30-NOV-98	10.0	676	190.3	8.3	4670.0
14-DEC-98	10.0	674	192.3	8.2	4670.0
29-DEC-98	9.7	662	192.3	8.3	4670.0

* Values Exceed Upper Control Limit

5SM6

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. 5SM7

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.1	2922	316.6			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
15-JUL-98	8.0	1273	148.3	7.9	4667.0
28-JUL-98	8.1	1296	146.2	7.8	4667.0
11-AUG-98	8.0	1292	146.6	8.0	4667.0
25-AUG-98	8.1	1270	152.6	7.9	4666.0
09-SEP-98	8.1	1288	155.0	8.2	4666.0
22-SEP-98	7.9	1250	150.0	8.0	4666.0
06-OCT-98	8.0	1266	147.9	8.0	4666.0
21-OCT-98	7.8	1237	139.7	7.8	4666.0
03-NOV-98	8.1	1240	145.7	7.9	4667.0
17-NOV-98	7.9	1291	150.4	8.0	4667.0
30-NOV-98	8.6	1319	145.1	7.9	4667.0
14-DEC-98	8.6	1341	147.0	8.0	4668.0
29-DEC-98	8.4	1343	147.4	8.0	4668.0

* Values Exceed Upper Control Limit

5SM7

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. WCOV-04

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.1	2922	316.6			

Date

15-JUL-98	6.3	985	108.9	8.4		4654.0
28-JUL-98	6.3	987	107.9	8.4		4653.0
11-AUG-98	6.3	985	111.6	8.3		4652.0
25-AUG-98	6.6	979	109.0	8.3		4651.4
09-SEP-98	6.6	985	108.1	8.5		4650.0
22-SEP-98	6.5	977	107.5	8.4		4649.0
06-OCT-98	6.6	981	105.2	8.3		4649.0
21-OCT-98	6.6	977	106.3	8.1		4649.0
03-NOV-98	6.6	968	106.8	8.2		4650.0
17-NOV-98	6.6	982	106.1	8.1		4650.2
01-DEC-98	6.5	979	106.6	8.2		4651.0
15-DEC-98	6.7	983	107.4	8.1		4651.2
29-DEC-98	6.5	973	107.8	8.2		4652.0

* Values Exceed Upper Control Limit

WCOV-04

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. 6SM1

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	µ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	21.8	1961	105.8			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
07-JUL-98	7.3	1111	89.2	8.7		4704.0
21-JUL-98	6.7	1133	90.8	8.6		4704.0
04-AUG-98	7.3	1118	90.0	8.7		4704.0
17-AUG-98	7.5	1107	91.2	8.9		4704.0
01-SEP-98	6.6	1066	85.3	8.7		4704.0
14-SEP-98	6.8	1086	86.9	8.8		4704.0
29-SEP-98	6.8	1093	87.5	8.6		4704.0
15-OCT-98	7.4	1064	86.5	8.8		4704.0
28-OCT-98	7.0	1097	88.8	8.6		4704.0
09-NOV-98	7.4	1089	91.3	8.6		4704.0
24-NOV-98	6.5	1065	88.9	8.9		4704.0
09-DEC-98	6.8	1067	86.4	8.6		4704.0
22-DEC-98	7.4	1155	93.7	8.5		4704.0

* Values Exceed Upper Control Limit

6SM1

Negative U3O8 Grades Indicate Less than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6 INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. 6SM2

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO_3		mg/l	msl
Upper Control Limit	24.2	3574	238.2			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
07-JUL-98	7.7	1979	87.0	7.9	4708.0
21-JUL-98	7.5	1980	85.6	7.8	4707.0
04-AUG-98	8.3	1978	89.4	7.9	4707.0
17-AUG-98	8.4	1956	88.5	7.9	4707.0
01-SEP-98	8.3	1979	88.9	7.8	4707.0
14-SEP-98	8.0	1888	90.6	7.8	4708.0
29-SEP-98	8.2	1974	88.7	7.8	4707.0
15-OCT-98	8.3	1961	88.8	7.9	4707.0
28-OCT-98	8.3	1992	85.9	7.8	4707.0
09-NOV-98	8.5	1992	88.3	7.8	4707.0
24-NOV-98	8.1	1974	88.6	7.9	4707.0
09-DEC-98	8.5	1985	87.4	7.8	4707.0
22-DEC-98	7.7	1976	87.7	7.9	4707.0

* Values Exceed Upper Control Limit

6SM2

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. 6SM3

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	24.2	3574	238.2			

Date					
07-JUL-98	8.5	1930	53.1	8.1	4715.0
21-JUL-98	7.5	1936	52.9	8.1	4715.0
04-AUG-98	8.6	1917	53.9	8.1	4714.0
17-AUG-98	8.7	1908	60.3	8.1	4714.0
01-SEP-98	8.0	1936	59.4	7.9	4714.0
14-SEP-98	8.4	1932	61.8	8.1	4715.0
29-SEP-98	8.0	1957	65.1	8.0	4714.0
15-OCT-98	8.4	1961	72.0	8.0	4715.0
28-OCT-98	8.3	1952	64.7	7.9	4715.0
09-NOV-98	8.7	1970	71.1	7.8	4715.0
24-NOV-98	8.1	1965	56.9	8.1	4715.0
09-DEC-98	8.4	1957	55.1	8.0	4715.0
22-DEC-98	7.9	1986	71.4	7.9	4715.0

* Values Exceed Upper Control Limit

6SM3

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. 6SM4

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	24.2	3574	238.2			

Date

07-JUL-98	6.5	1526	25.0	9.5		4715.0
21-JUL-98	6.5	1539	22.2	9.3		4715.0
04-AUG-98	7.2	1539	25.2	9.0		4715.0
17-AUG-98	6.8	1531	25.3	9.9		4715.0
01-SEP-98	7.0	1568	38.1	10.3		4715.0
14-SEP-98	6.8	1553	31.3	10.2		4715.0
29-SEP-98	6.7	1516	23.6	9.6		4715.0
15-OCT-98	6.7	1545	28.7	9.0		4715.0
28-OCT-98	6.8	1559	28.8	8.8		4715.0
09-NOV-98	7.3	1566	36.0	8.6		4715.0
24-NOV-98	6.7	1564	34.4	8.8		4715.0
09-DEC-98	7.1	1566	33.0	8.6		4715.0
22-DEC-98	6.5	1600	53.4	8.6		4715.0

* Values Exceed Upper Control Limit

6SM4

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. 6SM5

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	21.8	1961	105.8			

Date					
07-JUL-98	7.4	1582	93.2	8.1	4715.0
21-JUL-98	7.3	1599	93.6	7.9	4715.0
04-AUG-98	8.1	1587	96.5	8.0	4714.0
17-AUG-98	8.2	1578	96.8	8.1	4714.0
01-SEP-98	7.7	1600	96.0	7.9	4714.0
14-SEP-98	7.9	1578	92.4	7.9	4715.0
29-SEP-98	7.8	1572	93.3	7.9	4714.0
15-OCT-98	7.9	1552	95.0	7.9	4714.0
28-OCT-98	7.8	1561	92.3	7.8	4714.0
09-NOV-98	8.3	1556	95.1	7.9	4714.0
24-NOV-98	7.6	1550	95.3	7.9	4714.0
09-DEC-98	8.0	1579	94.8	7.8	4713.0
22-DEC-98	7.5	1592	95.9	8.0	4713.0

* Values Exceed Upper Control Limit

6SM5

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. 6SM6

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	21.8	1961	105.8			

Date

07-JUL-98	11.1	490	239.3	*	8.5	4701.0
21-JUL-98	10.9	500	246.8	*	8.4	4700.0
04-AUG-98	11.7	499	249.6	*	8.4	4700.0
17-AUG-98	11.9	497	239.7	*	8.1	4699.0
01-SEP-98	12.1	500	251.3	*	8.3	4700.0
14-SEP-98	11.7	498	242.5	*	8.3	4700.0
29-SEP-98	11.8	503	249.2	*	8.3	4699.0
15-OCT-98	12.2	494	248.4	*	8.4	4699.0
28-OCT-98	12.2	501	247.1	*	8.3	4699.0
09-NOV-98	12.4	487	248.3	*	8.3	4698.0
24-NOV-98	11.8	497	253.9	*	8.5	4698.0
09-DEC-98	12.0	501	249.4	*	8.2	4698.0
22-DEC-98	11.5	496	264.6	*	8.3	4698.0

* Values Exceed Upper Control Limit

6SM6

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. 6SM7

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	25.6	889	330			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
07-JUL-98	10.6	500	247.5	8.5	4701.0
21-JUL-98	10.5	504	248.8	8.3	4700.0
04-AUG-98	11.3	507	254.3	8.3	4700.0
17-AUG-98	11.3	500	245.4	8.3	4700.0
01-SEP-98	11.4	504	255.5	8.2	4701.0
14-SEP-98	11.1	502	247.3	8.3	4700.0
29-SEP-98	11.3	506	251.3	8.3	4698.0
14-OCT-98	11.4	492	241.3	8.3	4699.0
28-OCT-98	11.5	494	247.0	8.3	4699.0
10-NOV-98	11.7	499	249.7	8.3	4698.0
24-NOV-98	11.6	497	255.5	8.4	4698.0
09-DEC-98	11.5	500	248.6	8.3	4698.0
22-DEC-98	11.0	493	260.7	8.4	4698.0

* Values Exceed Upper Control Limit

6SM7

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. 6SM8

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	24.2	3574	238.2			

Date

07-JUL-98	9.8	2255	52.5	8.0		4731.0
21-JUL-98	9.8	2261	53.3	7.9		4731.0
04-AUG-98	10.6	2266	54.8	8.0		4731.0
17-AUG-98	10.5	2269	51.8	7.7		4731.0
01-SEP-98	10.8	2291	53.8	7.8		4731.0
16-SEP-98	10.7	2285	53.6	7.9		4731.0
30-SEP-98	10.3	2283	49.4	7.9		4731.0
14-OCT-98	10.5	2247	53.3	7.9		4731.0
27-OCT-98	10.9	2252	55.3	8.1		4731.0
10-NOV-98	11.1	2212	53.0	7.9		4731.0
24-NOV-98	10.6	2230	55.6	8.0		4731.0
09-DEC-98	10.8	2231	54.3	7.8		4731.0
22-DEC-98	10.4	2229	57.7	7.8		4731.0

* Values Exceed Upper Control Limit

6SM8

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. 6SM9

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	24.2	3574	238.2			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
07-JUL-98	8.7	2032	41.8	10.2	4732.0
21-JUL-98	8.8	2060	39.4	10.1	4732.0
04-AUG-98	9.8	2168	47.5	10.5	4732.0
17-AUG-98	9.8	1982	33.0	9.9	4731.0
01-SEP-98	9.7	2056	36.0	10.1	4731.0
16-SEP-98	10.0	2175	44.3	10.1	4732.0
30-SEP-98	9.1	2078	35.9	10.2	4732.0
14-OCT-98	9.4	2070	37.4	10.0	4732.0
27-OCT-98	9.3	2077	38.5	10.2	4732.0
10-NOV-98	9.5	1907	34.6	9.8	4731.0
24-NOV-98	9.5	2101	31.3	10.1	4732.0
09-DEC-98	9.7	2159	32.5	10.1	4732.0
22-DEC-98	9.7	2162	37.0	9.9	4739.0

* Values Exceed Upper Control Limit

6SM9

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Well I.D. 6SM10

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	25.6	889	330			

Date

16-SEP-98	9.7	440	138.0	9.4		4700.0
30-SEP-98	9.8	618	206.1	9.1		4692.0
14-OCT-98	9.7	485	157.1	9.3		4695.0
27-OCT-98	10.3	592	213.5	9.1		4693.0
10-NOV-98	12.2	638	233.8	8.8		4693.0
24-NOV-98	9.8	534	192.1	9.0		4693.0
09-DEC-98	10.9	654	231.9	8.8		4692.0
22-DEC-98	9.9	580	221.9	8.6		469

* Values Exceed Upper Control Limit

6SM10

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. 6SM11

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	24.2	3574	238.2			

Date

16-SEP-98	9.0	1528	87.3	9.8	4734.0
30-SEP-98	9.5	1529	39.6	10.1	4732.0
13-OCT-98	9.9	1606	44.3	10.0	4732.0
27-OCT-98	10.8	1727	49.2	10.1	4732.0
10-NOV-98	11.2	1860	53.8	9.9	4733.0
23-NOV-98	11.5	2046	39.3	9.9	4732.0
09-DEC-98	12.6	2203	22.7	9.5	4731.0
22-DEC-98	12.6	2237	32.9	9.0	4732.0

* Values Exceed Upper Control Limit

6SM11

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. 6SM12

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	24.2	3574	238.2	8.5		

Date

07-JUL-98	11.0	2550	105.5	7.9		4731.0
20-JUL-98	11.1	2535	115.7	7.9		4731.0
04-AUG-98	11.3	2540	111.9	7.7		4731.0
17-AUG-98	11.1	2548	113.5	7.7		4730.0
01-SEP-98	10.9	2511	111.9	7.5		4731.0
16-SEP-98	11.3	2486	114.9	7.6		4731.0
30-SEP-98	11.0	2574	107.9	7.7		4731.0
13-OCT-98	12.1	2550	107.2	7.6		4731.0
27-OCT-98	11.2	2463	113.3	7.9		4731.0
10-NOV-98	11.6	2519	110.8	7.7		4731.0
23-NOV-98	11.5	2564	113.7	7.7		4731.0
09-DEC-98	11.7	2587	113.4	7.7		4731.0
22-DEC-98	11.0	2587	118.3	7.9		4730.0

* Values Exceed Upper Control Limit

6SM12

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. 6SM13

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	24.2	3574	238.2			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
07-JUL-98	11.8	2184	64.9	8.0	4731.0
21-JUL-98	11.8	2184	65.4	7.9	4731.0
04-AUG-98	12.8	2127	65.3	8.0	4730.0
17-AUG-98	12.7	2197	67.5	7.9	4730.0
01-SEP-98	13.0	2191	67.9	7.8	4730.0
16-SEP-98	12.9	2192	67.0	7.9	4731.0
30-SEP-98	12.5	2199	63.1	7.9	4731.0
14-OCT-98	12.4	2183	68.0	7.9	4731.0
27-OCT-98	12.8	2158	69.9	8.0	4731.0
10-NOV-98	12.9	2153	69.1	7.7	4731.0
24-NOV-98	12.6	2163	70.2	8.0	4730.0
09-DEC-98	13.0	2185	67.8	7.8	4730.0
22-DEC-98	12.8	2166	72.8	7.9	4730.0

* Values Exceed Upper Control Limit

6SM13

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. 6SM14

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	21.8	1968	105.8			

Date

16-SEP-98	8.9	993	98.9	8.5		4713.0
30-SEP-98	8.2	1007	99.9	8.7		4713.0
14-OCT-98	7.9	1051	111.5 *	8.4		4713.0
27-OCT-98	7.5	1047	119.4 *	8.5		4713.0
10-NOV-98	7.1	1074	116.2 *	8.3		4713.0
24-NOV-98	7.3	1050	120.7 *	8.6		4713.0
09-DEC-98	7.9	1085	122.5 *	8.6		4713.0
22-DEC-98	7.3	1085	124.5 *	8.5		4713.0

* Values Exceed Upper Control Limit

Negative U3O8 Grades Indicate Less Than Detection Limit.

6SM14

CHRISTENSEN RANCH
INTERIOR DEEP SAND MONITOR WELLS

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

INTERIOR DEEP SAND MONITOR WELL

Well I.D. MW-12D

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.8	1017	420.9			

Date

15-JUL-98	10.3	621	133.6	8.4		4610.0
28-JUL-98	10.9	619	138.3	8.4		4610.0
11-AUG-98	10.8	620	137.1	8.4		4610.0
25-AUG-98	11.1	608	135.7	8.4		4609.0
09-SEP-98	11.1	622	136.1	8.4		4609.0
22-SEP-98	11.0	617	130.9	8.4		4609.0
06-OCT-98	10.9	614	137.1	8.4		4609.0
21-OCT-98	10.9	609	135.0	8.3		4609.0
03-NOV-98	11.0	601	139.0	8.3		4609.0
17-NOV-98	11.4	605	141.0	8.4		4609.0
01-DEC-98	11.5	607	140.3	8.4		4609.0
15-DEC-98	11.4	603	143.6	8.3		4609.0
29-DEC-98	11.8	604	150.9	8.3		4608.0

* Values Exceed Upper Control Limit

MW-12D

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

INTERIOR DEEP SAND MONITOR WELL

Well I.D. MW45D

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.7	753	153.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
08-JUL-98	9.2	631	119.6	8.6		4531.5
21-JUL-98	10.1	617	129.4	8.5		4530.8
05-AUG-98	9.8	609	134.8	8.7		4531.0
20-AUG-98	10.0	632	118.9	8.5		4530.4
01-SEP-98	9.7	615	123.0	8.6		4529.1
15-SEP-98	9.9	620	129.7	8.6		4529.6
29-SEP-98	9.8	616	121.6	8.6		4529.3
14-OCT-98	9.9	615	123.6	8.5		4529.3
27-OCT-98	10.0	615	124.7	8.5		4529.3
12-NOV-98	9.9	603	125.4	8.6		4529.2
24-NOV-98	10.1	620	125.3	8.4		4530.8
08-DEC-98	9.8	620	116.4	8.4		4534.8
22-DEC-98	9.5	625	115.3	8.5		4535.9

* Values Exceed Upper Control Limit

MW45D

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

INTERIOR DEEP SAND MONITOR WELL

Well I.D. MW47D

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO_3		mg/l	msl
Upper Control Limit	13.7	753	153.5			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
08-JUL-98	9.9	629	121.6	8.7	4530.5
21-JUL-98	9.8	628	126.3	8.7	4529.4
05-AUG-98	9.9	626	126.9	8.8	4529.4
20-AUG-98	9.9	630	119.6	8.6	4528.9
01-SEP-98	9.4	621	120.8	8.7	4528.7
15-SEP-98	10.0	625	127.0	8.8	4530.1
29-SEP-98	9.7	622	120.0	8.7	4529.9
14-OCT-98	9.7	615	123.4	8.6	4530.0
28-OCT-98	9.7	615	127.1	8.7	4530.5
12-NOV-98	9.7	607	124.8	8.7	4534.5
24-NOV-98	10.3	622	126.5	8.4	4534.2
08-DEC-98	10.3	626	125.7	8.5	4533.5
22-DEC-98	9.8	632	115.0	8.6	4537.6

* Values Exceed Upper Control Limit

MW47D

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

INTERIOR DEEP SAND MONITOR WELL

Well I.D. MW49D

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.7	753	153.3			

Date

08-JUL-98	10.2	610	132.7	8.7		4540.4
21-JUL-98	9.7	618	132.8	8.6		4540.0
05-AUG-98	9.5	599	141.2	8.7		4539.6
19-AUG-98	9.3	603	129.0	8.6		4539.1
01-SEP-98	9.6	586	126.5	8.7		4531.9
16-SEP-98	9.3	600	134.3	8.7		4532.4
29-SEP-98	9.5	616	126.2	8.6		4532.0
14-OCT-98	9.7	601	132.1	8.6		4532.0
28-OCT-98	9.5	609	130.5	8.7		4532.0
12-NOV-98	9.4	594	132.5	8.6		4536.7
24-NOV-98	9.5	545	168.2 *	8.6		4536.7
09-DEC-98	9.6	582	145.6	8.7		4536.5
22-DEC-98	9.3	593	137.1	8.6		4539.6

* Values Exceed Upper Control Limit

MW49D

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

INTERIOR DEEP SAND MONITOR WELL

Well I.D. MW51D

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO_3		mg/l	msl
Upper Control Limit	13.7	753	153.3			

Date

08-JUL-98	10.6	652	107.8	8.5		4531.7
21-JUL-98	10.4	648	113.5	8.7		4531.1
05-AUG-98	10.6	645	114.6	8.6		4531.0
19-AUG-98	10.4	656	106.9	8.9		4530.6
01-SEP-98	10.4	639	108.6	8.7		4530.3
15-SEP-98	10.5	637	117.7	8.6		4530.1
29-SEP-98	10.0	642	114.0	8.7		4530.0
14-OCT-98	10.4	628	118.4	8.4		4529.8
27-OCT-98	10.7	644	109.6	8.6		4529.4
13-NOV-98	10.5	638	108.1	8.3		4529.2
24-NOV-98	10.8	640	112.4	8.4		4529.1
08-DEC-98	10.6	640	113.0	8.8		4528.7
22-DEC-98	10.2	639	108.8	8.5		4529.7

* Values Exceed Upper Control Limit

MW51D

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

INTERIOR DEEP SAND MONITOR WELL

Well I.D. MW53D

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.7	753	153.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
08-JUL-98	9.7	654	103.5	8.7	4538.4
21-JUL-98	10.4	651	108.5	8.6	4537.6
05-AUG-98	10.4	653	107.5	8.7	4537.5
19-AUG-98	10.3	655	99.0	8.6	4537.0
01-SEP-98	10.7	649	105.8	8.7	4536.3
16-SEP-98	10.4	648	107.6	8.7	4536.6
29-SEP-98	10.1	650	100.3	8.6	4536.4
14-OCT-98	9.9	642	105.3	8.7	4536.4
28-OCT-98	10.0	641	105.6	8.7	4536.4
12-NOV-98	10.0	629	103.8	8.7	4536.4
24-NOV-98	10.7	648	106.3	8.4	4536.1
09-DEC-98	10.4	641	105.0	8.7	4535.9
22-DEC-98	10.4	648	102.0	8.5	4536.3

* Values Exceed Upper Control Limit

MW53D

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

INTERIOR DEEP SAND MONITOR WELL

Well I.D. MW55D

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.7	753	153.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
08-JUL-98	9.3	585	136.8	8.9	4540.1
21-JUL-98	8.8	576	144.1	8.9	4539.5
05-AUG-98	9.5	590	142.7	8.9	4539.4
19-AUG-98	9.5	580	139.8	8.8	4538.8
01-SEP-98	9.3	587	138.3	8.8	4538.1
16-SEP-98	9.5	583	144.5	8.9	4538.0
29-SEP-98	9.3	584	137.8	8.8	4537.7
14-OCT-98	9.3	581	139.8	8.9	4537.5
27-OCT-98	9.6	572	137.3	8.8	4539.1
12-NOV-98	9.6	560	140.7	8.8	4538.5
24-NOV-98	9.5	572	134.6	8.7	4538.4
09-DEC-98	9.7	567	143.5	8.8	4538.0
22-DEC-98	8.8	576	144.7	8.8	4538.7

* Values Exceed Upper Control Limit

MW55D

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

INTERIOR DEEP SAND MONITOR WELL

2nd Half, 1998

Well I.D. MW57D

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.7	753	153.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
08-JUL-98	10.9	639	106.5	8.8	4544.7
21-JUL-98	10.5	637	109.9	8.7	4544.0
05-AUG-98	10.8	637	113.4	8.7	4544.1
19-AUG-98	10.7	645	107.1	8.6	4543.5
01-SEP-98	10.6	633	108.5	8.6	4543.3
16-SEP-98	10.8	636	111.6	8.7	4543.0
29-SEP-98	11.0	639	105.3	8.6	4542.9
14-OCT-98	11.0	626	109.6	8.7	4543.1
27-OCT-98	11.1	616	106.6	8.7	4543.1
12-NOV-98	11.4	620	106.0	8.6	4543.0
24-NOV-98	11.5	633	109.1	8.4	4542.5
09-DEC-98	11.6	622	109.3	8.6	4542.0
22-DEC-98	10.1	629	110.4	8.6	4542.1

* Values Exceed Upper Control Limit

MW57D

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3

INTERIOR DEEP SAND MONITOR WELL

Well I.D. MW65D

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.7	753	153.3			

Date

08-JUL-98	10.1	624	115.0	9.2		4551.7
21-JUL-98	9.5	636	115.2	9.1		4551.3
06-AUG-98	9.5	594	135.4	8.9		4551.5
19-AUG-98	9.7	629	108.2	9.0		4551.1
01-SEP-98	10.0	627	116.3	9.1		4550.6
15-SEP-98	10.2	644	111.2	9.0		4549.7
29-SEP-98	10.1	648	108.2	9.0		4549.5
14-OCT-98	9.9	623	115.7	9.1		4549.3
27-OCT-98	10.0	605	116.1	9.1		4549.8
12-NOV-98	9.4	612	113.0	8.9		4549.6
24-NOV-98	9.4	632	103.9	8.8		4549.5
08-DEC-98	10.2	626	111.0	8.9		4548.9
22-DEC-98	9.8	632	114.6	9.0		4548.8

* Values Exceed Upper Control Limit

MW65D

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

INTERIOR DEEP SAND MONITOR WELL

2nd Half, 1998

Well I.D. MW67D

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	12.9	789	134			

Date

07-JUL-98	9.6	567	174.3	*	8.9	4530.5
20-JUL-98	9.4	562	174.1	*	8.8	4530.1
03-AUG-98	10.4	564	183.5	*	8.9	4531.1
18-AUG-98	9.7	570	174.6	*	8.8	4531.0
31-AUG-98	9.5	564	169.0	*	8.8	4530.8
15-SEP-98	9.2	563	168.1	*	8.9	4530.4
28-SEP-98	9.4	568	170.0	*	8.9	4530.6
12-OCT-98	9.6	563	169.1	*	8.9	4530.7
27-OCT-98	9.4	552	169.2	*	8.8	4530.7
11-NOV-98	9.8	564	167.1	*	8.8	4531.1
23-NOV-98	9.2	562	174.1	*	8.8	4531.0
07-DEC-98	9.5	558	163.8	*	8.7	4531.1
21-DEC-98	9.5	567	167.2	*	8.8	4530.7

* Values Exceed Upper Control Limit

MW67D

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

INTERIOR DEEP SAND MONITOR WELL

Well I.D. MW69D

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO_3		mg/l	msl
Upper Control Limit	12.9	789	134			

Date						
07-JUL-98	9.1	585	157.4	*	8.9	4531.3
20-JUL-98	9.4	611	141.3	*	8.8	4530.9
03-AUG-98	10.3	641	122.0		8.9	4531.5
18-AUG-98	9.1	607	146.2	*	8.7	4531.7
31-AUG-98	8.5	592	144.0	*	8.7	4531.1
14-SEP-98	8.7	573	156.1	*	8.9	4530.8
28-SEP-98	9.6	595	156.8	*	8.9	4531.0
13-OCT-98	9.7	626	124.3		8.9	4530.8
26-OCT-98	9.8	635	122.1		8.9	4530.8
11-NOV-98	9.1	592	147.4	*	8.7	4531.7
23-NOV-98	9.3	611	137.5	*	8.9	4531.5
07-DEC-98	9.5	627	121.5		8.7	4532.0
21-DEC-98	9.6	623	120.3		8.7	4531.8

* Values Exceed Upper Control Limit

MW69D

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

INTERIOR DEEP SAND MONITOR WELL

Well I.D. MW71D

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	12.9	789	134			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
07-JUL-98	10.1	648	116.7	8.9		4532.7
20-JUL-98	9.5	624	141.8 *	8.9		4532.4
03-AUG-98	9.6	612	148.6 *	9.0		4532.3
18-AUG-98	9.8	647	119.3	8.9		4531.9
31-AUG-98	9.4	626	125.7	9.0		4531.4
14-SEP-98	9.6	633	124.4	9.0		4531.3
28-SEP-98	9.7	658	117.4	9.0		4531.5
13-OCT-98	9.8	638	118.5	9.0		4531.4
26-OCT-98	9.8	618	143.1 *	9.0		4531.4
11-NOV-98	10.1	651	110.1	8.6		4533.2
23-NOV-98	9.6	646	111.8	8.9		4533.0
07-DEC-98	9.5	633	116.0	8.7		4533.6
21-DEC-98	9.6	629	117.1	8.7		4533.4

* Values Exceed Upper Control Limit

MW71D

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

INTERIOR DEEP SAND MONITOR WELL

Well I.D. MW91D

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	12.9	789	134			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
07-JUL-98	9.9	593	148.7 *	8.6	4530.0
20-JUL-98	9.7	587	149.1 *	8.5	4529.5
03-AUG-98	9.5	590	150.7 *	8.5	4531.2
18-AUG-98	9.6	590	138.8 *	8.4	4530.8
31-AUG-98	9.1	583	142.6 *	8.6	4530.9
15-SEP-98	9.8	619	125.6	8.6	4530.8
28-SEP-98	10.0	631	121.9	8.6	4530.7
12-OCT-98	9.6	588	145.8 *	8.6	4530.6
26-OCT-98	10.0	612	130.1	8.6	4530.4
11-NOV-98	9.8	584	140.1 *	8.3	4531.1
23-NOV-98	10.2	629	116.1	8.5	4530.9
07-DEC-98	9.5	606	122.3	8.3	4531.0
21-DEC-98	9.7	597	129.6	8.2	4530.9

* Values Exceed Upper Control Limit

MW91D

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

INTERIOR DEEP SAND MONITOR WELL

Well I.D. MW93D

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	12.9	789	134			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
07-JUL-98	10.3	660	107.7	8.5	4530.7
20-JUL-98	10.2	654	107.5	8.5	4530.3
03-AUG-98	9.3	654	104.3	8.6	4530.3
18-AUG-98	10.1	654	102.9	8.6	4529.9
31-AUG-98	10.1	654	110.3	8.7	4529.6
14-SEP-98	10.0	652	103.5	8.6	4529.5
28-SEP-98	9.9	662	102.3	8.6	4529.7
12-OCT-98	10.1	653	105.2	8.6	4529.3
27-OCT-98	10.2	649	104.5	8.6	4529.3
11-NOV-98	9.9	655	99.9	8.2	4529.1
23-NOV-98	10.2	654	104.6	8.5	4528.9
07-DEC-98	10.0	654	98.2	8.3	4529.1
21-DEC-98	9.5	658	105.8	8.7	4528.8

* Values Exceed Upper Control Limit

MW93D

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

INTERIOR DEEP SAND MONITOR WELL

Well I.D. MW95D

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO_3		mg/l	msl
Upper Control Limit	12.9	789	134			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
07-JUL-98	10.4	650	114.1	8.6		4531.5
20-JUL-98	10.1	648	112.1	8.5		4531.1
03-AUG-98	9.4	647	108.7	8.7		4530.7
18-AUG-98	9.8	640	116.8	8.6		4530.2
31-AUG-98	10.2	653	112.9	8.7		4529.6
14-SEP-98	10.1	646	108.2	8.6		4529.7
28-SEP-98	9.8	648	116.5	8.7		4530.1
12-OCT-98	9.8	638	120.8	8.6		4529.8
27-OCT-98	10.4	638	109.0	8.6		4529.7
11-NOV-98	10.3	649	109.5	8.5		4529.6
23-NOV-98	10.3	646	111.0	8.5		4529.3
07-DEC-98	9.8	649	103.6	8.3		4529.4
21-DEC-98	9.4	649	110.9	8.6		4529.0

* Values Exceed Upper Control Limit

MW95D

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

INTERIOR DEEP SAND MONITOR WELL

Well I.D. MW97D

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.8	723	143.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
07-JUL-98	10.8	624	109.5	8.7	4531.8
20-JUL-98	10.7	609	122.1	8.6	4531.6
03-AUG-98	9.9	624	106.2	8.7	4531.6
18-AUG-98	10.7	623	106.0	8.6	4531.0
31-AUG-98	10.7	628	109.1	8.7	4530.7
14-SEP-98	10.5	622	107.1	8.6	4530.6
28-SEP-98	10.4	634	105.5	8.6	4530.5
12-OCT-98	10.7	604	123.1	8.7	4530.4
26-OCT-98	10.5	620	111.1	8.7	4530.4
11-NOV-98	10.9	609	115.2	8.4	4530.5
23-NOV-98	10.5	617	107.2	8.5	4530.1
07-DEC-98	10.7	625	103.4	8.2	4530.3
21-DEC-98	10.8	599	116.5	8.4	4530.0

* Values Exceed Upper Control Limit

MW97D

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

INTERIOR DEEP SAND MONITOR WELL

Well I.D. MW99D

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	13.8	723	143.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
07-JUL-98	10.8	581	139.3	8.7	4529.9
20-JUL-98	10.8	569	155.6 *	8.6	4529.5
03-AUG-98	9.9	577	141.4	8.7	4529.7
18-AUG-98	10.6	559	154.5 *	8.7	4529.0
31-AUG-98	10.9	579	143.6 *	8.7	4528.7
14-SEP-98	10.8	576	137.9	7.7	4528.6
28-SEP-98	10.5	586	135.3	8.8	4528.4
12-OCT-98	10.8	566	150.1 *	8.7	4528.3
26-OCT-98	10.6	567	147.2 *	8.7	4528.3
11-NOV-98	11.0	549	157.7 *	8.5	4528.4
23-NOV-98	11.3	571	145.3 *	8.5	4528.1
07-DEC-98	10.4	584	124.0	8.3	4528.2
21-DEC-98	10.1	562	150.5 *	8.6	4527.8

* Values Exceed Upper Control Limit

MW99D

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

INTERIOR DEEP SAND MONITOR WELL

Well I.D. MW113D

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO_3		mg/l	msl
Upper Control Limit	13.8	723	143.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
07-JUL-98	11.0	589	143.6 *	8.9		4530.2
20-JUL-98	9.9	608	124.1	8.9		4530.6
03-AUG-98	10.9	562	166.8 *	8.9		4530.8
19-AUG-98	11.0	559	176.6 *	8.9		4530.6
31-AUG-98	11.1	540	178.2 *	8.9		4529.7
14-SEP-98	10.9	583	146.2 *	8.9		4529.7
28-SEP-98	10.7	591	143.3	8.9		4529.5
12-OCT-98	11.2	546	176.0 *	8.9		4529.3
26-OCT-98	10.8	536	179.5 *	8.9		4529.3
11-NOV-98	11.0	530	177.6 *	8.7		4529.4
23-NOV-98	10.9	550	165.2 *	8.8		4529.1
07-DEC-98	10.4	606	117.8	8.7		4529.3
21-DEC-98	10.1	607	123.2	8.7		4529.1

* Values Exceed Upper Control Limit

MW113D

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 4

INTERIOR DEEP SAND MONITOR WELL

Well I.D. 4DM-1

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	14.1	712	189.2			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
13-JUL-98	9.1	574	125.1	8.5		4574.1
27-JUL-98	8.9	568	125.0	8.7		4574.1
10-AUG-98	8.6	568	117.8	8.6		4573.9
24-AUG-98	8.8	562	120.3	8.6		4573.8
08-SEP-98	8.9	560	121.3	8.6		4573.5
21-SEP-98	8.8	564	119.1	8.6		4573.6
05-OCT-98	8.9	565	118.6	8.7		4573.2
20-OCT-98	8.9	554	121.2	8.7		4572.9
02-NOV-98	9.3	565	122.2	8.5		4573.2
16-NOV-98	9.3	568	123.1	8.6		4572.9
30-NOV-98	9.5	566	124.2	8.6		4572.7
14-DEC-98	9.3	560	122.4	8.5		4572.9
28-DEC-98	9.0	562	123.6	8.6		4572.3

* Values Exceed Upper Control Limit

4DM-1

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 4

INTERIOR DEEP SAND MONITOR WELL

Well I.D. 4DM-4

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO_3		mg/l	msl
Upper Control Limit	14.1	712	189.2			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
13-JUL-98	8.3	516	145.7	8.6		4561.7
27-JUL-98	8.3	513	145.1	8.7		4561.7
10-AUG-98	7.9	512	137.9	8.6		4561.7
24-AUG-98	8.4	509	142.9	8.7		4561.7
08-SEP-98	8.1	506	140.0	8.7		4561.7
24-SEP-98	8.1	509	143.1	8.7		4561.7
05-OCT-98	8.1	513	139.2	8.8		4561.7
19-OCT-98	8.3	506	142.1	8.7		4561.7
03-NOV-98	8.4	506	141.8	8.6		4561.7
16-NOV-98	8.5	513	143.8	8.7		4561.7
30-NOV-98	8.3	510	143.3	8.7		4561.7
14-DEC-98	8.5	509	143.4	8.6		4561.7
28-DEC-98	8.2	508	143.1	8.6		4561.7

* Values Exceed Upper Control Limit

4DM-4

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 4

INTERIOR DEEP SAND MONITOR WELL

Well I.D. 4DM-8

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	14.1	712	189.2			

Date

13-JUL-98	8.9	519	145.8	8.6		4554.1
27-JUL-98	9.0	520	149.9	8.8		4554.8
10-AUG-98	8.7	518	141.7	8.6		4554.7
24-AUG-98	9.0	512	151.5	8.7		4554.5
08-SEP-98	8.9	514	146.1	8.7		4554.1
21-SEP-98	8.6	517	144.1	8.6		4554.0
05-OCT-98	8.8	519	146.7	8.8		4553.7
19-OCT-98	8.9	514	146.1	8.7		4553.3
02-NOV-98	9.3	518	147.1	8.6		4553.7
16-NOV-98	9.4	511	146.3	8.7		4553.6
30-NOV-98	9.5	517	147.9	8.6		4553.4
14-DEC-98	9.3	512	148.4	8.7		4553.6
28-DEC-98	8.9	513	148.2	8.6		4556.0

* Values Exceed Upper Control Limit

4DM-8

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 4

INTERIOR DEEP SAND MONITOR WELL

Well I.D. 4DRM-07

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO_3		mg/l	msl
Upper Control Limit	14.1	712	189.2			

Date

13-JUL-98	8.3	523	131.4	8.6		4566.0
27-JUL-98	8.6	527	137.8	8.7		4567.5
10-AUG-98	8.4	528	128.2	8.6		4567.0
24-AUG-98	8.7	524	137.9	8.6		4567.2
08-SEP-98	8.2	524	130.2	8.6		4566.7
24-SEP-98	8.4	530	134.2	8.4		4566.8
05-OCT-98	8.4	528	133.7	8.7		4566.5
19-OCT-98	8.5	523	131.7	8.6		4566.5
02-NOV-98	8.5	525	132.7	8.6		4566.5
16-NOV-98	8.8	519	132.5	8.6		4565.5
30-NOV-98	8.8	526	135.1	8.6		4567.0
14-DEC-98	8.7	522	134.2	8.6		4567.3
28-DEC-98	8.5	525	135.8	8.6		4564.6

* Values Exceed Upper Control Limit

4DRM-07

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

INTERIOR DEEP SAND MONITOR WELL

Well I.D. 5DM1A

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.8	1017	420.9			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
15-JUL-98	5.3	426	196.4	9.1	4609.0
28-JUL-98	5.3	423	197.1	9.0	4608.0
11-AUG-98	5.3	422	199.2	9.1	4608.0
25-AUG-98	5.6	414	200.7	8.9	4608.0
09-SEP-98	5.4	424	200.8	9.1	4608.0
22-SEP-98	5.5	423	204.9	9.1	4608.0
06-OCT-98	5.5	426	204.0	9.0	4608.0
21-OCT-98	5.8	417	199.8	8.9	4608.0
03-NOV-98	5.6	413	203.9	8.8	4608.0
17-NOV-98	5.7	416	203.5	8.9	4608.0
01-DEC-98	5.9	415	202.4	8.8	4608.0
15-DEC-98	5.7	411	203.9	8.8	4608.0
29-DEC-98	5.6	412	205.9	8.8	4608.0

* Values Exceed Upper Control Limit

5DM1A

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

INTERIOR DEEP SAND MONITOR WELL

Well I.D. 5DM2

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.8	1017	420.9			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
15-JUL-98	10.4	618	112.1	9.4		4613.0
28-JUL-98	10.5	616	111.9	9.3		4612.0
11-AUG-98	10.8	616	112.6	9.2		4612.0
25-AUG-98	11.1	609	112.1	9.4		4612.0
09-SEP-98	11.2	617	113.2	9.4		4611.0
22-SEP-98	11.1	618	115.8	9.4		4611.0
06-OCT-98	11.0	612	114.4	9.4		4611.0
21-OCT-98	11.2	612	110.9	9.4		4611.0
03-NOV-98	11.1	608	113.2	9.3		4611.0
17-NOV-98	11.4	611	116.0	9.2		4611.0
01-DEC-98	11.5	613	114.6	9.2		4610.0
15-DEC-98	11.5	623	120.3	9.5		4610.0
29-DEC-98	11.4	605	115.5	9.3		4610.0

* Values Exceed Upper Control Limit

5DM2

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

INTERIOR DEEP SAND MONITOR WELL

Well I.D. 5DM3

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.8	1017	420.9			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
15-JUL-98	10.2	567	103.8	8.7	4608.0
28-JUL-98	10.2	563	103.0	8.6	4607.0
11-AUG-98	10.6	563	108.2	8.6	4607.0
25-AUG-98	10.8	556	106.5	8.7	4607.0
09-SEP-98	10.8	562	107.6	8.8	4607.0
22-SEP-98	10.5	558	108.8	8.8	4607.0
06-OCT-98	10.5	556	108.5	8.8	4607.0
21-OCT-98	10.9	558	104.1	8.5	4607.0
03-NOV-98	11.0	553	107.2	8.7	4607.0
17-NOV-98	11.1	557	106.1	8.7	4607.0
01-DEC-98	11.3	558	107.9	8.7	4607.0
15-DEC-98	11.1	556	109.5	8.8	4607.0
29-DEC-98	10.8	555	110.8	8.8	4607.0

* Values Exceed Upper Control Limit

5DM3

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

INTERIOR DEEP SAND MONITOR WELL

Well I.D. 5DM4

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.8	1017	420.9			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
15-JUL-98	5.3	435	209.4	8.9	4608.0
28-JUL-98	5.0	432	209.8	8.8	4608.0
11-AUG-98	5.3	430	210.6	8.8	4608.0
25-AUG-98	5.5	427	211.1	8.9	4608.0
09-SEP-98	5.7	435	213.2	8.9	4608.0
22-SEP-98	5.7	431	214.1	8.9	4607.0
06-OCT-98	5.6	430	214.5	8.9	4608.0
21-OCT-98	5.8	428	210.0	8.8	4607.0
03-NOV-98	5.6	425	212.7	8.8	4607.0
17-NOV-98	5.9	426	214.6	8.8	4608.0
01-DEC-98	6.0	429	212.8	8.8	4608.0
15-DEC-98	6.2	423	216.7	8.7	4607.0
29-DEC-98	5.8	426	215.8	8.8	4608.0

* Values Exceed Upper Control Limit

5DM4

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

INTERIOR DEEP SAND MONITOR WELL

Well I.D. 5DM5

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO_3		mg/l	msl
Upper Control Limit	22.8	1017	420.9			

Date

15-JUL-98	5.4	449	227.3	8.6	4605.0
28-JUL-98	5.4	452	227.5	8.6	4604.0
11-AUG-98	5.8	452	228.1	8.5	4604.0
25-AUG-98	5.9	447	231.2	8.7	4604.0
09-SEP-98	5.9	451	231.1	8.7	4604.0
21-SEP-98	5.8	452	232.1	8.6	4604.0
06-OCT-98	5.9	450	233.2	8.7	4604.0
21-OCT-98	6.1	449	228.8	8.6	4604.0
03-NOV-98	5.9	445	232.8	8.6	4604.0
17-NOV-98	5.9	447	232.9	8.6	4604.0
30-NOV-98	6.0	451	234.6	8.5	4604.0
14-DEC-98	5.8	449	234.4	8.5	4604.0
29-DEC-98	5.8	443	232.7	8.6	4604.0

* Values Exceed Upper Control Limit

5DM5

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

INTERIOR DEEP SAND MONITOR WELL

Well I.D. 5DM7

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.8	1017	420.9			

Date

15-JUL-98	7.3	524	250.1	8.6		4603.0
28-JUL-98	6.9	523	239.3	8.6		4603.0
10-AUG-98	7.1	522	238.8	8.7		4603.0
25-AUG-98	7.1	503	245.2	8.7		4603.0
09-SEP-98	7.0	526	247.5	8.7		4603.0
22-SEP-98	6.8	508	251.2	8.8		4603.0
06-OCT-98	6.9	511	248.8	8.8		4603.0
21-OCT-98	7.2	509	239.4	8.7		4603.0
03-NOV-98	7.2	507	243.7	8.7		4603.0
17-NOV-98	7.3	514	243.5	8.6		4603.0
30-NOV-98	7.3	515	244.7	8.6		4603.0
14-DEC-98	7.2	516	243.1	8.6		4604.0
29-DEC-98	7.1	517	248.1	8.6		4604.0

* Values Exceed Upper Control Limit

5DM7

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

INTERIOR DEEP SAND MONITOR WELL

Well I.D. WCOW-37D

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.8	1017	420.9			

Date

15-JUL-98	8.8	460	238.8	8.6	4603.0
28-JUL-98	8.9	464	236.6	8.6	4603.0
11-AUG-98	8.6	463	226.5	8.6	4602.0
25-AUG-98	8.8	460	236.3	8.6	4602.9
09-SEP-98	8.9	461	237.8	8.6	4603.0
21-SEP-98	8.9	461	233.9	8.6	4603.0
06-OCT-98	9.0	459	230.3	8.6	4603.0
21-OCT-98	9.1	459	231.1	8.5	4603.0
03-NOV-98	9.0	453	232.7	8.5	4602.5
17-NOV-98	9.3	459	233.4	8.5	4602.8
30-NOV-98	9.3	459	233.0	8.5	4603.0
15-DEC-98	9.1	459	233.9	8.4	4603.1
29-DEC-98	8.8	454	236.1	8.5	4603.0

* Values Exceed Upper Control Limit

WCOW-37D

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

INTERIOR DEEP SAND MONITOR WELL

Well I.D. 6DM1

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	21.3	1802	121.7			

Date

07-JUL-98	7.7	808	91.0	8.3		4566.0
21-JUL-98	8.4	798	94.8	8.4		4566.0
04-AUG-98	8.4	796	94.4	8.3		4566.0
17-AUG-98	8.5	809	94.5	8.4		4567.0
01-SEP-98	8.4	804	94.7	8.3		4567.0
14-SEP-98	8.2	801	92.4	8.4		4568.0
29-SEP-98	8.4	806	92.6	8.3		4574.0
15-OCT-98	8.3	793	92.6	8.4		4575.0
28-OCT-98	8.6	801	92.4	8.2		4575.0
09-NOV-98	8.6	783	92.8	8.2		4578.0
24-NOV-98	8.1	801	94.5	8.3		4578.0
09-DEC-98	8.6	799	94.2	8.2		4578.0
22-DEC-98	8.6	796	94.9	8.1		4579.0

* Values Exceed Upper Control Limit

6DM1

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

INTERIOR DEEP SAND MONITOR WELL

Well I.D. 6DM2

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	21.3	1802	121.7			

Date

07-JUL-98	6.1	1135	57.8	9.2	4567.0
21-JUL-98	6.1	1124	55.3	9.3	4567.0
04-AUG-98	6.9	1117	61.3	9.2	4568.0
17-AUG-98	9.2	1163	72.3	10.2	4568.0
01-SEP-98	6.5	1123	55.3	9.4	4569.0
14-SEP-98	6.6	1131	63.0	9.4	4570.0
29-SEP-98	6.3	1129	55.6	9.3	4577.0
15-OCT-98	7.0	1129	65.8	9.3	4577.0
28-OCT-98	6.7	1126	58.3	9.2	4577.0
09-NOV-98	7.0	1107	68.1	9.6	4580.0
24-NOV-98	6.4	1122	56.9	9.4	4580.0
08-DEC-98	6.7	1125	66.7	9.2	4580.0
22-DEC-98	6.8	1130	68.6	9.1	4581.0

* Values Exceed Upper Control Limit

6DM2

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

INTERIOR DEEP SAND MONITOR WELL

Well I.D. 6DM3-2

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	21.3	1802	121.7			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
07-JUL-98	6.1	1137	75.1	8.2	4567.0
21-JUL-98	6.1	1132	75.7	8.2	4567.0
04-AUG-98	6.7	1121	77.7	8.2	4568.0
17-AUG-98	6.4	1120	78.1	8.3	4569.0
01-SEP-98	6.5	1135	78.2	8.1	4571.0
14-SEP-98	6.5	1131	77.5	8.3	4571.0
29-SEP-98	6.4	1138	76.7	8.2	4580.0
15-OCT-98	6.6	1125	77.6	8.3	4571.0
28-OCT-98	6.5	1131	76.9	7.9	4580.0
09-NOV-98	6.5	1131	79.2	8.0	4580.0
24-NOV-98	6.3	1132	79.5	8.0	4583.0
08-DEC-98	6.8	1121	78.0	8.1	4582.0
22-DEC-98	6.8	1129	78.3	7.9	4581.0

* Values Exceed Upper Control Limit

6DM3-2

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

INTERIOR DEEP SAND MONITOR WELL

Well I.D. 6DM4-2

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	21.3	1802	121.7			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
07-JUL-98	6.1	1151	71.5	8.4	4569.0
21-JUL-98	6.1	1145	72.1	8.4	4569.0
04-AUG-98	6.8	1136	75.2	8.4	4570.0
17-AUG-98	8.5	1084	75.4	8.8	4571.0
01-SEP-98	6.5	1131	75.9	8.2	4572.0
14-SEP-98	6.7	1138	74.0	8.4	4572.0
29-SEP-98	6.5	1155	74.2	8.4	4581.0
15-OCT-98	6.4	1139	73.9	8.4	4580.0
28-OCT-98	6.5	1155	73.9	8.2	4580.0
09-NOV-98	6.7	1149	76.8	8.2	4583.0
24-NOV-98	6.8	1133	77.8	8.3	4583.0
08-DEC-98	7.1	1140	76.4	8.2	4583.0
22-DEC-98	7.5	1146	76.4	7.9	4583.0

* Values Exceed Upper Control Limit

6DM4-2

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

INTERIOR DEEP SAND MONITOR WELL

Well I.D. 6DM5

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO_3		mg/l	msl
Upper Control Limit	21.3	1802	121.7			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
07-JUL-98	6.0	1166	73.2	8.2		4573.0
21-JUL-98	6.3	1163	74.2	8.1		4572.0
04-AUG-98	6.7	1155	76.3	8.2		4573.0
17-AUG-98	6.5	1152	74.9	8.0		4573.0
01-SEP-98	6.6	1162	76.2	8.1		4576.0
14-SEP-98	6.4	1164	74.6	8.2		4576.0
29-SEP-98	6.5	1172	75.8	8.2		4585.0
15-OCT-98	6.3	1154	76.0	8.2		4587.0
28-OCT-98	6.5	1162	75.9	8.1		4583.0
09-NOV-98	6.6	1158	75.1	8.1		4586.0
24-NOV-98	6.3	1157	77.1	8.2		4586.0
08-DEC-98	6.8	1144	76.4	8.2		4586.0
22-DEC-98	6.8	1155	77.8	8.0		4585.0

* Values Exceed Upper Control Limit

6DM5

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

INTERIOR DEEP SAND MONITOR WELL

Well I.D. 6DM6

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	21.3	1802	121.7			

Date					
16-SEP-98	7.6	823	79.6	8.9	4590.0
29-SEP-98	7.8	804	71.8	9.0	4589.0
14-OCT-98	7.5	831	80.3	8.9	4592.0
27-OCT-98	7.6	822	87.7	8.8	4592.0
10-NOV-98	7.9	805	84.4	8.8	4595.0
24-NOV-98	7.7	825	87.8	8.8	4594.0
08-DEC-98	8.0	819	86.8	8.6	4594.0
22-DEC-98	7.7	818	91.4	8.8	4593.0

* Values Exceed Upper Control Limit

6DM6

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

INTERIOR DEEP SAND MONITOR WELL

Well I.D. 6DM7

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	21.3	1802	121.7			

Date

29-SEP-98	7.3	882	85.9	8.5		4583.0
13-OCT-98	7.5	868	85.5	8.3		4605.0
27-OCT-98	7.4	867	88.1	8.6		4603.0
10-NOV-98	7.3	869	83.2	8.3		4607.0
23-NOV-98	7.4	869	89.7	8.5		4606.0
08-DEC-98	7.7	862	87.0	8.3		4606.0
22-DEC-98	7.2	859	91.1	8.5		4604.0

* Values Exceed Upper Control Limit

6DM7

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

INTERIOR DEEP SAND MONITOR WELL

Well I.D. 6DM8

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	21.3	1802	121.7			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
16-SEP-98	7.6	872	93.6	9.2	4598.0
29-SEP-98	7.2	882	98.1	9.3	4586.0
14-OCT-98	7.5	879	97.1	9.2	4597.0
27-OCT-98	7.6	869	101.5	9.2	4597.0
10-NOV-98	7.6	861	97.7	9.0	4600.0
24-NOV-98	7.5	867	101.2	9.1	4599.0
08-DEC-98	7.9	859	97.6	9.0	4599.0
22-DEC-98	7.6	854	101.6	9.0	4598.0

* Values Exceed Upper Control Limit

6DM8

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

INTERIOR DEEP SAND MONITOR WELL

Well I.D. 6DM9

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	21.3	1802	121.7			

Date

16-SEP-98	7.7	850	87.0	8.4		4591.0
29-SEP-98	7.8	851	90.0	8.5		4587.0
14-OCT-98	7.6	853	87.3	8.4		4592.0
27-OCT-98	7.6	840	91.0	8.5		4592.0
10-NOV-98	7.8	828	89.0	8.4		4595.0
24-NOV-98	7.6	837	92.0	8.4		4595.0
08-DEC-98	7.9	836	89.7	8.3		4594.0
22-DEC-98	7.8	837	95.5	8.4		459

* Values Exceed Upper Control Limit

6DM9

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

INTERIOR DEEP SAND MONITOR WELL

Well I.D. 6DM10

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	21.3	1802	121.7			

Date

16-SEP-98	7.6	830	78.3	9.0		4590.0
29-SEP-98	7.4	838	81.7	8.9		4589.0
14-OCT-98	7.5	844	83.3	8.8		4592.0
27-OCT-98	7.5	829	86.5	8.8		4592.0
10-NOV-98	7.7	822	86.4	8.7		4594.0
24-NOV-98	7.5	838	89.7	8.8		4595.0
08-DEC-98	7.8	835	86.7	8.6		4594.0
22-DEC-98	7.6	838	92.9	8.7		4593.0

* Values Exceed Upper Control Limit

6DM10

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

INTERIOR DEEP SAND MONITOR WELL

2nd Half, 1998

Well I.D. 6DM11

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.9	1101	385.3			

Date

16-SEP-98	8.4	517	121.4	10.0		4610.0
29-SEP-98	8.6	523	161.7	9.9		4600.0
13-OCT-98	8.7	542	174.7	9.6		4604.0
27-OCT-98	8.5	593	187.8	9.6		4604.0
10-NOV-98	8.9	605	187.8	9.3		4605.0
23-NOV-98	8.9	627	192.8	9.4		4608.0
08-DEC-98	9.3	615	190.5	9.3		4607.0
22-DEC-98	8.7	612	200.1	9.3		4607.0

* Values Exceed Upper Control Limit

Negative U3O8 Grades Indicate Less Than Detection Limit.

6DM11

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

INTERIOR DEEP SAND MONITOR WELL

Well I.D. 6DM12

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.9	1101	385.3			

Date

07-JUL-98	7.5	544	119.1	8.8	4609.0
20-JUL-98	8.1	548	125.1	8.9	4608.0
04-AUG-98	8.3	548	124.8	8.9	4608.0
17-AUG-98	8.1	551	119.7	8.7	4609.0
01-SEP-98	8.0	545	123.2	8.7	4611.0
16-SEP-98	8.1	545	122.4	8.6	4611.0
29-SEP-98	8.2	547	120.9	8.7	4601.0
13-OCT-98	8.2	543	118.8	8.6	4604.0
27-OCT-98	8.1	538	123.0	8.8	4605.0
10-NOV-98	8.2	531	121.3	8.7	4607.0
23-NOV-98	8.0	541	124.4	8.7	4608.0
08-DEC-98	8.4	535	122.2	8.6	4608.0
22-DEC-98	8.1	534	128.3	8.6	4607.0

* Values Exceed Upper Control Limit

6DM12

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

INTERIOR DEEP SAND MONITOR WELL

Well I.D. 6DM13

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.9	1101	385.3			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
07-JUL-98	7.3	643	185.8	8.4	4607.0
21-JUL-98	7.4	643	186.6	8.3	4605.0
04-AUG-98	8.1	644	191.3	8.4	4606.0
17-AUG-98	7.9	638	183.8	8.3	4606.0
01-SEP-98	8.0	642	191.2	8.3	4608.0
16-SEP-98	8.3	645	192.6	8.3	4609.0
30-SEP-98	8.0	644	186.5	8.3	4600.0
14-OCT-98	7.8	644	183.4	8.3	4600.0
27-OCT-98	8.0	635	188.2	8.4	4603.0
10-NOV-98	7.7	628	189.2	8.2	4605.0
24-NOV-98	7.9	635	192.8	8.4	4606.0
08-DEC-98	8.3	637	190.4	8.3	4605.0
22-DEC-98	7.9	635	188.0	8.3	4604.0

* Values Exceed Upper Control Limit

6DM13

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

INTERIOR DEEP SAND MONITOR WELL

Well I.D. 6DM14

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	21.3	1802	121.7			

Date

16-SEP-98	7.9	805	83.3	8.9		4584.0
29-SEP-98	7.9	817	85.2	8.7		4586.0
14-OCT-98	7.6	841	87.7	8.6		4587.0
27-OCT-98	7.8	813	91.6	8.8		4587.0
10-NOV-98	7.7	815	89.1	8.5		4590.0
24-NOV-98	7.5	826	92.8	8.7		4590.0
08-DEC-98	8.1	830	91.2	8.5		4589.0
22-DEC-98	7.9	823	96.3	8.6		4589.0

* Values Exceed Upper Control Limit

6DM14

Negative U3O8 Grades Indicate Less Than Detection Limit.

CHRISTENSEN RANCH
PERIMETER ORE ZONE TREND WELLS

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

PERIMETER ORE ZONE TREND WELL

Well I.D. MW78T

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Action Level	13.6	823	121.3			

Date

07-JUL-98	10.2	666	97.6	8.5	4472.0
20-JUL-98	10.1	667	96.8	8.5	4472.3
03-AUG-98	10.1	661	97.8	8.6	4477.1
18-AUG-98	9.7	680	97.5	8.5	4489.4
31-AUG-98	9.5	684	97.8	8.6	4496.1
15-SEP-98	9.3	685	97.1	8.6	4504.8
28-SEP-98	9.1	692	94.1	8.6	4510.8
13-OCT-98	9.2	691	96.4	8.6	4513.7
27-OCT-98	9.5	684	96.2	8.5	4519.6
11-NOV-98	9.2	687	91.4	8.2	4522.3
23-NOV-98	9.7	687	97.9	8.3	4524.6
07-DEC-98	9.2	687	93.6	8.4	4526.7
22-DEC-98	9.2	689	102.1	8.5	4528.8

* Values Exceed Action Level

MW78T

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2

PERIMETER ORE ZONE TREND WELL

Well I.D. MW87T

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Action Level	13.6	823	121.3			

Date

07-JUL-98	10.1	663	98.5	8.4	4463.0
20-JUL-98	10.1	664	97.8	8.4	4464.8
03-AUG-98	10.4	668	99.0	8.5	4467.3
18-AUG-98	9.9	669	93.1	8.5	4486.5
31-AUG-98	10.6	669	94.2	8.5	4494.6
14-SEP-98	9.9	662	96.1	8.6	4501.9
28-SEP-98	10.2	676	97.0	8.6	4504.6
13-OCT-98	10.1	658	96.2	8.5	4504.6
26-OCT-98	10.4	664	96.1	8.6	4514.6
11-NOV-98	10.4	663	94.9	8.4	4516.3
23-NOV-98	10.2	659	95.7	8.5	4522.1
07-DEC-98	10.0	654	88.9	8.1	4521.1
21-DEC-98	10.0	661	92.2	8.3	4523.5

* Values Exceed Action Level

MW87T

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

PERIMETER ORE ZONE TREND WELL

Well I.D. 5TW-1

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.7	1004	134.3			

Date

15-JUL-98	8.6	722	106.2	8.6		4579.0
28-JUL-98	8.4	725	104.9	8.7		4576.0
11-AUG-98	8.3	723	100.2	8.6		4578.0
25-AUG-98	8.4	703	103.9	8.7		4577.0
09-SEP-98	8.2	715	105.3	8.7		4579.0
22-SEP-98	8.4	713	103.3	8.5		4580.0
06-OCT-98	8.4	719	102.7	8.6		4583.0
21-OCT-98	8.1	712	99.3	8.4		4585.0
03-NOV-98	8.5	711	102.4	8.5		4589.0
17-NOV-98	8.1	719	104.2	8.6		4595.0
30-NOV-98	8.9	719	103.3	8.5		4598.0
15-DEC-98	8.7	722	103.7	8.4		4598.0
29-DEC-98	8.6	722	105.3	8.4		4600.0

* Values Exceed Upper Control Limit

5TW-1

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

PERIMETER ORE ZONE TREND WELL

Well I.D. 6TW1

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	20	1576	95.2			

Date

07-JUL-98	5.4	1337	69.2	8.1		4613.0
21-JUL-98	11.0	1406	118.0 *	8.0	-1	4617.0
04-AUG-98	31.5 *	1915 *	366.0 *	7.3	-1	4596.0
17-AUG-98	20.2 *	1687 *	243.9 *	7.6	-1	4592.0
01-SEP-98	10.8	1460	134.4 *	7.9	-1	4595.0
16-SEP-98	8.5	1408	107.6 *	7.9	-1	4594.0
30-SEP-98	6.4	1378	80.3	7.9		4610.0
14-OCT-98	6.2	1356	78.6	7.9		4600.0
27-OCT-98	6.5	1349	84.3	8.0		4605.0
10-NOV-98	9.9	1412	126.3 *	7.1	-1	4605.0
24-NOV-98	12.8	1555	195.0 *	7.6	-1	4600.0
09-DEC-98	17.5	1687 *	253.1 *	7.5	-1	4601.0
22-DEC-98	24.6 *	1805 *	325.8 *	6.8	-1	4594.4

* Values Exceed Upper Control Limit

6TW1

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

PERIMETER ORE ZONE TREND WELL

Well I.D. 6TW2

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	20	1576	95.2			

Date

07-JUL-98	12.1	1409	111.4	*	8.1		4598.0	
21-JUL-98	22.2	*	1423	115.5	*	8.0	-1	4605.0
04-AUG-98	10.8	1371	85.5		8.2		4595.0	
17-AUG-98	10.9	1379	87.3		8.1		4594.0	
01-SEP-98	9.0	1352	68.8		8.1		4589.0	
14-SEP-98	8.3	1354	68.0		8.3		4589.0	
30-SEP-98	11.2	1405	97.0	*	8.1	-1	4630.0	
14-OCT-98	11.2	1392	100.8	*	8.1	-1	4604.0	
28-OCT-98	11.9	1391	98.6	*	8.1	-1	4601.0	
10-NOV-98	10.8	1373	95.0		8.1		4604.0	
24-NOV-98	9.9	1370	94.9		8.1		4598.0	
09-DEC-98	10.0	1377	94.2		8.0		4599.0	
22-DEC-98	9.9	1366	100.5	*	8.2		4594.0	

* Values Exceed Upper Control Limit

6TW2

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

PERIMETER ORE ZONE TREND WELL

Well I.D. 6TW3

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	20	1576	95.2			

Date

16-SEP-98	5.6	1314	66.7	8.3		4589.0
30-SEP-98	5.4	1324	63.8	8.4		4611.0
14-OCT-98	5.1	1313	65.8	8.4		4600.0
27-OCT-98	5.1	1311	68.8	8.4		4598.0
10-NOV-98	5.4	1297	68.0	8.4		4601.0
24-NOV-98	5.2	1306	69.7	8.3		4598.0
09-DEC-98	5.6	1311	67.7	8.1		4597.0
22-DEC-98	5.1	1303	71.7	8.2		459

* Values Exceed Upper Control Limit

6TW3

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

PERIMETER ORE ZONE TREND WELL

Well I.D. 6TW4

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	20	1576	95.2			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
07-JUL-98	5.4	1334	72.0	8.2	4588.0
21-JUL-98	5.3	1344	73.4	8.2	4595.0
04-AUG-98	5.6	1355	73.7	8.2	4591.0
17-AUG-98	5.9	1349	74.4	8.0	4591.0
01-SEP-98	5.9	1341	75.2	8.2	4587.0
14-SEP-98	5.7	1351	72.7	8.1	4589.0
30-SEP-98	5.6	1361	67.9	8.2	4628.0
15-OCT-98	5.5	1335	71.2	8.1	4600.0
28-OCT-98	5.8	1348	70.6	8.0	4598.0
10-NOV-98	5.7	1331	71.8	8.1	4602.0
24-NOV-98	5.6	1337	73.3	8.2	4598.0
09-DEC-98	5.9	1346	71.7	8.0	4597.0
22-DEC-98	5.5	1339	74.3	8.1	4595.0

* Values Exceed Upper Control Limit

6TW4

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

PERIMETER ORE ZONE TREND WELL

Well I.D.: 6TW5

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	20	1576	95.2			

Date

07-JUL-98	10.3	1489	125.5 *	8.1		4609.0
21-JUL-98	54.4 *	2615 *	657.0 *	7.1	-1	4609.0
04-AUG-98	7.7	1444	100.4 *	8.0	-1	4592.0
17-AUG-98	8.0	1447	100.2 *	8.0	-1	4592.0
01-SEP-98	8.2	1444	101.9 *	8.0	-1	4600.0
14-SEP-98	7.7	1432	93.7	8.1		4599.0
30-SEP-98	6.7	1429	79.9	8.0		4600.0
14-OCT-98	6.2	1409	79.2	8.0		4600.0
27-OCT-98	16.3	1586 *	183.2 *	7.5	-1	4604.0
10-NOV-98	26.8 *	1795 *	272.6 *	7.7	-1	4613.0
24-NOV-98	7.0	1414	90.2	7.9		4599.0
09-DEC-98	6.9	1419	86.6	7.9		4601.0
22-DEC-98	7.1	1405	91.0	7.9		4596.0

* Values Exceed Upper Control Limit

6TW5

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

INTERIOR DEEP SAND MONITOR WELL

Well I.D. 5DM8T

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.8	1017	420.9			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
15-JUL-98	8.3	594	131.3	8.5	4598.0
28-JUL-98	8.5	596	131.4	8.4	4597.0
11-AUG-98	8.8	598	133.4	8.4	4596.0
25-AUG-98	9.0	590	133.3	8.4	4596.0
09-SEP-98	9.0	597	132.4	8.4	4597.0
21-SEP-98	8.8	597	132.8	8.5	4596.0
06-OCT-98	8.9	594	133.4	8.5	4596.0
21-OCT-98	8.8	593	129.6	8.4	4597.0
03-NOV-98	9.0	586	132.5	8.4	4596.0
17-NOV-98	9.1	593	132.7	8.5	4598.0
30-NOV-98	9.4	597	134.0	8.4	4599.0
14-DEC-98	9.2	594	134.2	8.4	4600.0
29-DEC-98	8.9	586	133.5	8.4	4601.0

* Values Exceed Upper Control Limit

5DM8T

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5

INTERIOR DEEP SAND MONITOR WELL

Well I.D. 5DM9T

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	22.8	1017	420.9			

Date	Chloride	Specific Conductance	Total Alkalinity	pH	Piezometric Elevation
15-JUL-98	9.4	529	133.0	8.7	4595.0
28-JUL-98	9.8	535	133.4	8.5	4594.0
10-AUG-98	9.8	535	133.9	8.6	4593.0
25-AUG-98	10.2	529	136.2	8.6	4594.0
09-SEP-98	10.3	535	135.8	8.5	4594.0
21-SEP-98	10.1	533	136.4	8.6	4594.0
06-OCT-98	10.6	529	135.6	8.6	4594.0
21-OCT-98	10.6	526	134.1	8.6	4594.0
03-NOV-98	10.6	521	135.2	8.6	4595.0
17-NOV-98	10.7	524	132.3	8.7	4598.0
30-NOV-98	10.8	526	131.6	8.6	4599.0
14-DEC-98	10.8	525	132.2	8.6	4601.0
29-DEC-98	10.6	514	131.8	8.6	4602.0

* Values Exceed Upper Control Limit

5DM9T

Negative U308 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6

INTERIOR DEEP SAND MONITOR WELL

Well I.D. 6DT1

2nd Half, 1998

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	μ mho/cm	mg/l as CaCO ₃		mg/l	msl
Upper Control Limit	21.3	1802	121.7			

Date

07-JUL-98	7.7	825	90.4	8.5		4575.0
21-JUL-98	7.5	823	90.7	8.4		4574.0
04-AUG-98	8.1	824	93.8	8.5		4575.0
17-AUG-98	8.3	820	93.8	8.5		4575.0
01-SEP-98	8.3	824	95.4	8.4		4576.0
14-SEP-98	8.1	824	92.0	8.4		4577.0
29-SEP-98	8.2	828	92.8	8.3		4585.0
15-OCT-98	8.2	818	92.5	8.4		4583.0
28-OCT-98	8.3	822	91.8	8.4		4583.0
10-NOV-98	8.5	809	93.8	8.1		4586.0
24-NOV-98	7.9	823	93.7	8.5		4586.0
09-DEC-98	8.5	824	93.5	8.3		4586.0
22-DEC-98	7.6	817	93.5	8.5		4586.0

* Values Exceed Upper Control Limit

6DT1

Negative U3O8 Grades Indicate Less Than Detection Limit.

APPENDIX 3

**Western Environmental Services and Testing, Inc.
Dryer Stack Emissions Test Results
October 1998**

**COGEMA
LYNCH, WYOMING**

YELLOW CAKE DRYER STACK

October 29, 1998

File Number 98-1114

Prepared By



**WESTERN
ENVIRONMENTAL
SERVICES AND
TESTING INC.**
A Hawks Industries Company

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- A. Field Testing Data
- B. Computer Data Entry
- C. Analytical Data
- D. Equipment Calibration
- E. Plant Production Data
- F. Chain of Custody
- G. Resumes of Test Personnel

I. INTRODUCTION AND SUMMARY OF RESULTS

COGEMA Resource Company contracted Western Environmental Services and Testing, Inc. (WEST) of Casper, Wyoming to conduct compliance testing at their uranium mill near Lynch, Wyoming.

The Yellow Cake Dryer Stack was tested by EPA Methods 1, 2, 3, 4 and 5 to demonstrate compliance with Wyoming Department of Environmental Quality (WYDEQ), Air Quality Division (AQD) Permit Number OP254. Emissions of radium₂₂₆, thorium₂₃₀, lead₂₁₀, and uranium were also determined by analyzing the particulate collected.

Scott Hinchey and Will Poston of WEST conducted the particulate testing October 29, 1998. Dexter Butterfield of COGEMA was also present.

Within this report the term "U₃O₈" is used generically to describe the uranium product emitted from the dryer stack. The actual composition of the uranium portion of the product produced by COGEMA is 84% metastudite (UO₄ 2H₂O) and 16% UO₃. The uranium trapped in the scrubber water, and which is emitted from the stack, is 99.5% UO₃, and 0.5% U₃O₇. These chemical compositions have been substantiated by COGEMA through x-ray defraction work conducted at the South Dakota School of Mines and Technology and Hazen Research, Inc. in Golden, Colorado.

Table 1
Yellow Cake Dryer Source Information

Exit Height (feet above ground)	approximately 40
Stack Diameter (Inches)	16
Port and Wall Thickness (Inches)	1/4
Upstream Diameters (Distance) from Test Ports to Flow Disturbance	9.5 diameters (12 ft., 11 in.)
Downstream Diameters (Distance) from Test Ports to Flow Disturbance	15 diameters (20 ft.)
Plant Production Rate	212 lbs/hr

SUMMARY OF RESULTS

The principal conclusions are:

1. The emissions of particulate matter from the Dryer Stack were 0.035 pounds per hour (0.0013 grains per dry standard cubic foot), based on averaging the two tests using the "front-half" collections of the EPA type sampling train.
2. The two test average concentrations of Uranium-natural (U) were 3.08×10^{-10} uCi/ml, based on the "front and back-half" collections of the EPA-type sampling train.
3. The two test average emissions of U_3O_8 from the Dryer Stack were 0.00634 pounds per hour, based on the "front and back-half" collections of the EPA type sampling train.
4. The two test average emissions of Radium₂₂₆ from the Dryer Stack were 1.54×10^{-12} uCi/ml, based on the "front and back-half" collections of the EPA-type sampling train.
5. The two test average emissions of Thorium₂₃₀ from the Dryer Stack were 1.21×10^{-12} uCi/ml, based on the "front and back-half" collections of the EPA-type sampling train.
6. The two test average emissions of lead (Pb₂₁₀) from the Dryer Stack were 2.94×10^{-11} uCi/ml, based on the "front and back-half" collections of the EPA-type sampling train.
7. The allowable particulate matter emission rate is 0.30 pound per hour, as stated in COGEMA Permit #OP-254. The particulate emissions averaged 11.7 percent of the allowable standard, based on the "front-half" collections of two tests.

II. RESULTS

TABLE 2
YELLOW CAKE DRYER

<u>Test Parameters</u>	<u>Units</u>	<u>Run Number:</u>		<u>Average</u>
		<u>1</u>	<u>2</u>	
P _{bar} (Barometric Pressure, absolute)	In. Hg	25.40	25.40	25.40
Y (Dry Gas Meter Calibration Factor)	dimensionless	0.9870	0.9870	0.9870
C _p (Pitot tube Coefficient)	dimensionless	0.833	0.833	0.833
D _n (Diameter of Nozzle)	Inches	0.245	0.245	0.245
θ (Total Sampling Time of Test)	Minutes	60.00	60.00	60.00
ΔH (Orifice Pressure Drop)	In. H2O	2.04	2.05	2.05
V _m (Volume of Dry Gas Sampled - as measured)	ft ³ (dry)	51.137	51.539	51.338
T _m (Gas Meter Temperature, avg.)	Degr. F	59	67	63
V _c (Condensate - impingers and silica gel)	ml or g	81.8	70.5	76.15
m _n (Mass of Particulate Collected)	mg	3.28	4.09	3.68
<u>Location/Process Parameters</u>				
A _s (Cross-sectional Area of Stack)	ft ²	1.40	1.40	1.40
P _g (Static Pressure of Stack Gas)	In. H2O	-0.11	-0.11	-0.11
T _s (Temperature of Stack Gas)	Deg. F	139	140	139.50
√Δp (Sq. root of velocity head of gas)	√ In. H2O	0.8159	0.8267	0.82
CO ₂ (Carbon Dioxide)	%	0.7	0.9	0.80
O ₂ (Oxygen)	%	19.6	19.8	19.70
N ₂ (Nitrogen)	%	79.7	79.3	79.50
<u>Calculations</u>				
V _{mstd} (Gas Sampled, standard conditions (std))	ft ³	43.85	43.49	43.67
V _{wstd} (Water Vapor in Gas Sampled, std)	ft ³	3.85	3.32	3.58
B _{ws} (Water Vapor in Gas, Proportion by Vol.)	%	8.07	7.09	7.58
G _d (Proportion of Dry Gas in stack)	%	91.9	92.9	92.42
M _d (Molecular Weight of Dry Stack Gas)	lb/lb-mole	28.90	28.94	28.92
M _s (Molecular Weight of Wet Stack Gas)	lb/lb-mole	28.02	28.16	28.09
P _s (Pressure of Stack Gas, Absolute)	In. Hg	25.39	25.39	25.39
ISO (Percent of Isokinetic Sampling)	%	101.6	98.6	100.10
<u>Flow Results</u>				
V _s (Average Stack Gas Velocity)	ft/m (fpm)	3200	3235	3217
Q _{std} (Dry Volumetric Flow Rate, std.)	ft ³ /m (dscfm)	3070	3130	3100
Q _a (Measured Volumetric Flow Rate, Actual)	ft ³ /m (cfm)	4470	4520	4495
<u>Particulate Results</u>				
C _s (Particulate Concentrations - std.)	gr/dscf	0.0012	0.0014	0.0013
E _p (Particulate Emission Rate)	lb/hr	0.030	0.039	0.035

Table 2 Yellow Cake Dryer Stack (Continued)

Test Parameters		Date:	Run 1	Run 2	Average
V_{mstd}	(dscf - std conditions)		29-Oct-98 43.85	29-Oct-98 43.49	
	(dscm - std conditions)		1.24	1.23	
Q_s	(Stack Flow Rate, dscm/hr)		5216	5318	5267
	(Stack Flow Rate, dscf/min)		3070	3130	3100
Radium 226	Amount collected (pCi/sample)		2.40	1.40	
	Possible error (pCi)		0.8	0.6	
	Lowest level detected - LLD (pCi)		1	1	
	LLD concentration (μ Ci/ml)		8.05E-13	8.12E-13	8.088E-13
	Concentration, (μ Ci/ml)		1.93E-12	1.14E-12	1.54E-12
	Possible concentration error (μ Ci)		6.44E-13	4.87E-13	5.66E-13
	Release Rate (Ci/Day)		2.42E-07	1.45E-07	1.94E-07
	Release Rate Error (Ci/Day)		8.07E-08	6.22E-08	7.14E-08
Thorium 230	Amount collected (pCi/sample)		2.4	0.6	
	Possible error (pCi)		1	0.4	
	Lowest level detected - LLD (pCi)		0.4	0.4	
	LLD concentration (μ Ci/ml)		3.22E-13	3.25E-13	3.24E-13
	Concentration, (μ Ci/ml)		1.93E-12	4.87E-13	1.21E-12
	Possible concentration error (μ Ci)		8.05E-13	3.25E-13	5.65E-13
	Release Rate (Ci/Day)		2.42E-07	6.22E-08	1.52E-07
	Release Rate Error (Ci/Day)		1.01E-07	4.15E-08	7.11E-08
Pb210	Amount collected (pCi/sample)		28.2	44.4	
	Possible error (pCi)		6.4	6.6	
	Lowest level detected - LLD (pCi)		10.2	10.2	
	LLD concentration (μ Ci/ml)		8.22E-12	8.28E-12	8.25E-12
	(concentration, μ Ci/ml)		2.27E-11	3.61E-11	2.94E-11
	(possible deviation/error, μ Ci)		5.15E-12	5.36E-12	5.26E-12
	Release Rate (Ci/Day)		2.84E-06	4.60E-06	3.72E-06
	Release Rate Error (Ci/Day)		6.45E-07	6.84E-07	6.65E-07
Uranium Nat.	mass collected, (pCi/sample)		332	430	
	Lowest level detected - LLD (μ Ci/ml)		3.34	3.34	
	LLD concentration (μ Ci/ml)		2.69E-12	2.71E-12	2.70E-12
	Concentration, (μ Ci/ml)		2.67E-10	3.49E-10	3.08E-10
	Release Rate (Ci/Day)		3.35E-05	4.46E-05	3.90E-05
U_3O_8	lb/Hr		0.00544	0.00724	0.00634

III. TEST PROCEDURES

A summary of the methods used to test the stack are shown below. Because standard EPA methodology was followed, only a brief description of each method is provided. Detailed US Environmental Protection Agency (EPA) methods are available in Title 40 of the Code of Federal Regulations (CFR), Part 60.

Part 60, Appendix A

- Method 1 "Sample and Velocity Traverses for Stationary Sources"
- Method 2 "Determination of Stack Gas Velocity and Volumetric Flow Rate"
- Method 3 "Gas Analysis for the Determination of Dry Molecular Weight"
- Method 4 "Determination of Moisture Content in Stack Gas"
- Method 5 "Determination of Particulate Emissions from Stationary Sources"

Sampling Point Determination (Method 1)

EPA Method 1 was used to determine the location of sampling points. Stack sampling points shown below were based on the stack diameter and the distance from the test ports to flow disturbances. The stacks were circular with two ports at 90° to each other.

Table 3
Sampling Points

<u>Sample Point Number</u>	<u>% of Diameter</u>	<u>Inches from Wall</u>
Point 1	4.4	1 ¹¹ / ₁₆
Point 2	14.6	2 ⁵ / ₁₆
Point 3	29.6	4 ³ / ₄
Point 4	70.4	11 ¹ / ₄
Point 5	85.4	13 ¹¹ / ₁₆
Point 6	95.6	15 ⁵ / ₁₆

Velocity and Flow Rate Determination (Method 2)

Velocity and temperature was measured at the points determined by Method 1 during isokinetic testing. Wind tunnel calibrated pitot tubes were used to measure velocity head. Type K thermocouples with digital pyrometers were used to measure temperature.

Moisture Content Determination (Method 4)

Water entrained in the stack gas was condensed and collected in chilled impingers in conjunction with the isokinetic sampling. The volume of gas sampled was measured with a calibrated dry gas meter. Moisture content was calculated from the gas and liquid volumes.

Particulate Determination (Method 5)

Particulate matter was collected before or on a filter with a Method 5 train. Sixty minute sampling runs were performed isokinetically in conjunction with Methods 1-4 on the Yellow Cake Dryer stack. Gas was withdrawn from the stack through a stainless steel nozzle, glass lined probe before being drawn through a filter connected to the probe. Pre and post test leak checks were performed for each run. All surfaces in contact with the sample prior to the filter were rinsed with acetone. The acetone was evaporated and then desiccated to a constant weight, along with the filter. Pitot, thermocouple, and meter calibrations are included in the appendix. A schematic of the sampling train is shown in Figure 1.

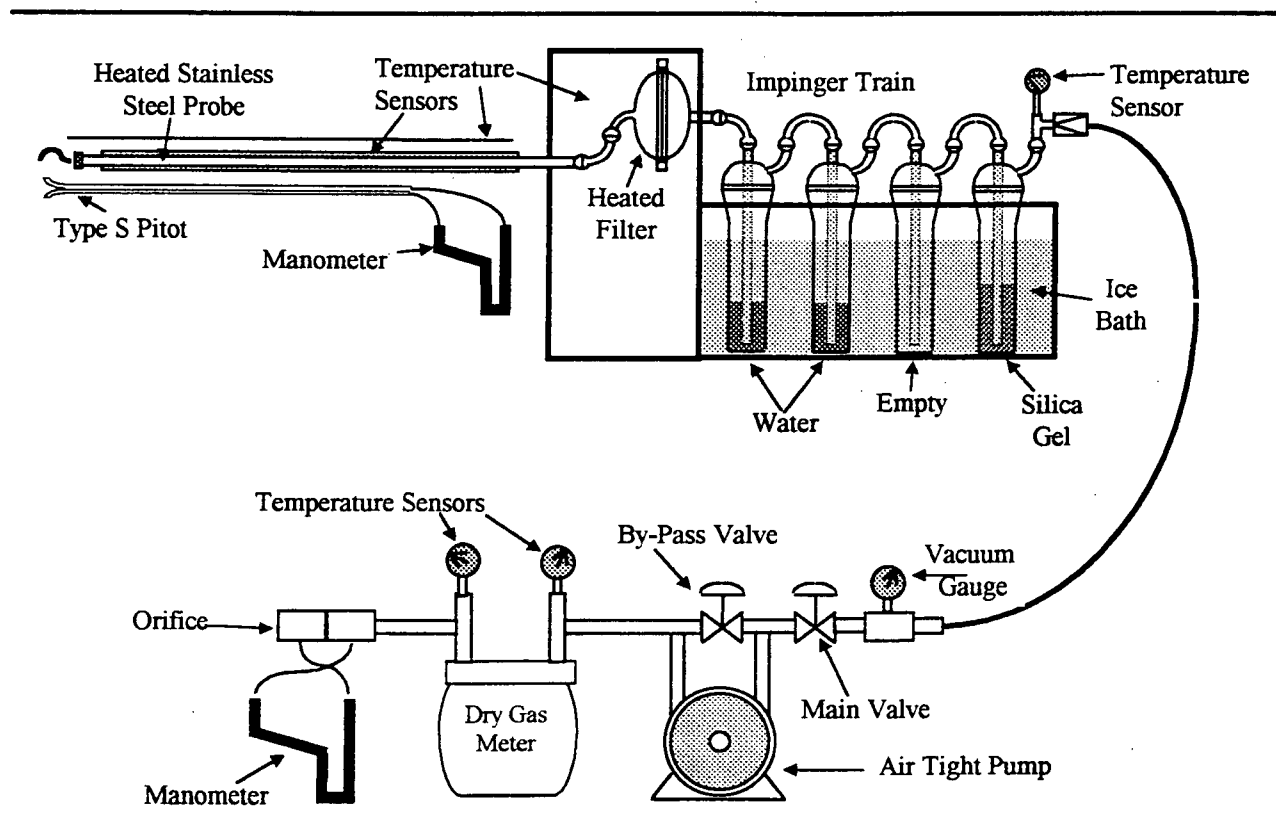


Figure 1
Method 5 Particulate Sample Train

IV. SOURCE DESCRIPTION

In insitu uranium mining operation, uranium is extracted by leaching from an underground ore deposit. The leach solution containing soluble uranium is then pumped through ion-exchange resin, where the uranium is "loaded on the resin. The leaching solution is then reconstituted and pumped back underground."

The uranium is stripped from the resin in a concentrated form and precipitated with hydrogen peroxide in the form of uranyl peroxide. The uranyl peroxide is dried to form $UO_4 \cdot 2H_2O$ and loaded into a 55-gallon drum for shipment.

The Wyoming Air Quality permit for the Yellow Cake Dryer is OP-254.

V. CALCULATIONS

The values used in the sample calculations have been taken from Run 1 on the Yellow Cake Dryer Stack. Results shown below are computer generated to eliminate rounding error and may be slightly different if calculated with a calculator.

1. Volume of water collected (wscf):

$$\begin{aligned} V_{w(std)} &= K(V_f - V_i) \\ &= 0.04707(81.8) \\ &= 3.28 \text{ wscf} \end{aligned}$$

$V_{w(std)}$ = Volume (ft³) of water collected, standard conditions

V_f = Final volume impinger content

V_i = Initial volume impinger content

$K = 0.04707$ = Conversion factor (ft³/ml)

2. Volume of gas metered, standard conditions (dscf)

$$\begin{aligned} V_{m(std)} &= \frac{(K)(V_m)(P_{bar} + \frac{\Delta H}{13.6})(Y)}{(460 + T_m)} \\ &= \frac{(17.647)(51.137)(25.40 + \frac{2.04}{13.6})(0.987)}{(460 + 59)} \\ &= 43.85 \text{ dscf} \end{aligned}$$

$V_{m(std)}$ = Volume (ft³) of gas through the dry gas meter, at standard conditions

V_m = Volume (ft³) of gas sample through the dry gas meter, ambient conditions

P_{bar} = Barometric pressure (inches of Hg)

ΔH = Average pressure drop across meter orifice (in. H₂O)

Y = Dry gas meter conversion factor

T_m = Average dry gas meter temperature (°F)

$K = 17.647$ = Conversion factor (°R/inch Hg)

13.6 = Conversion factor (inch H₂O/inch Hg)

460 = Conversion constant (°F to °R)

3. Moisture content, %

$$\begin{aligned} B_{ws} &= \frac{V_{w(std)}}{V_{m(std)} + V_{w(std)}} \times 100\% \\ &= \frac{3.28}{43.85 + 3.28} \times 100\% \\ &= 8.07\% \end{aligned}$$

B_{ws} = Percent by volume of water vapor in the gas stream

$V_{w(std)}$ = Volume (ft³) of water collected, at standard conditions

$V_{m(std)}$ = Volume (ft³) of gas through the dry gas meter, at standard conditions

4. Dry Gas, %

$$\begin{aligned} G_d &= 100 - B_{ws} \\ &= 100 - (8.07) \\ &= 91.9\% \end{aligned}$$

G_d = Percent of dry gas by volume in the gas stream

B_{ws} = Percent by volume of water vapor in the gas stream

5. Molecular weight of dry gas stream (lb/lb•mole)

$$\begin{aligned} M_d &= M_{CO_2} \frac{(\%CO_2)}{(100)} + M_{O_2} \frac{(\%O_2)}{(100)} + (M_{CO \text{ or } N_2}) \frac{(\%CO + \%N_2)}{(100)} \\ &= 44.0 \frac{(0.7)}{(100)} + 32.0 \frac{(19.6)}{(100)} + 28.0 \frac{(79.7)}{(100)} \\ &= 28.90 \text{ lb/lb•mole} \end{aligned}$$

M_d = Dry molecular weight of sample gas (lb/lb•mole)

M_{CO_2} = Molecular weight of carbon dioxide (lb/lb•mole)

M_{O_2} = Molecular weight of oxygen (lb/lb•mole)

$M_{CO \text{ or } N_2}$ = Molecular weight of CO or N₂
(lb/lb•mole)(Same)

CO_2 = Percent by volume of CO₂ in the gas stream

O_2 = Percent by volume of oxygen in the gas stream

$CO + N_2$ = Percent by volume of CO and N₂ in the gas
stream

100 = Conversion from percent to decimal fraction

6. Molecular weight of sample gas (lb/lb•mole)

$$\begin{aligned} M_s &= (M_d)(G_d/100) + (M_{H_2O})(B_{ws}/100) \\ &= (28.90)(91.9/100) + (18)(8.07/100) \\ &= 28.02 \text{ lb/lb•mole} \end{aligned}$$

M_s = Molecular weight of sample gas, wet (lb/lb•mole)

M_d = Dry molecular weight of sample gas (lb/lb•mole)

G_d = Percent of dry gas by volume in the gas stream

B_{ws} = Percent by volume of water vapor in the gas stream

M_{H_2O} = Molecular weight of water (lb/lb•mole)

7. Sample gas pressure (inches of Hg)

$$\begin{aligned} P_s &= (P_{bar}) + \frac{(P_g)}{(13.6)} \\ &= (25.40) + \frac{(-0.11)}{(13.6)} \\ &= 25.39 \text{ in. Hg} \end{aligned}$$

P_s = Absolute sample gas pressure (inches of Hg)

P_{bar} = Barometric pressure (inches of Hg)

P_g = Sample gas static pressure (inches of H₂O)

13.6 = Conversion factor (inches H₂O/inches of Hg)

8. Velocity of sample gas (ft/min)

$$V_s = (K_p)(C_p)(60)(\sqrt{\Delta P}) \left(\sqrt{\frac{(T_s + 460)}{(M_s)(P_s)}} \right)$$

$$= (85.49)(0.833)(60)(0.8159) \sqrt{\frac{139 + 460}{(28.02)(25.39)}}$$

$$= 3,200 \text{ fpm}$$

C_p = Pitot tube constant
 K_p = Velocity pressure coefficient (dimensionless)
 60 = Conversion factor (sec/min)
 M_s = Molecular weight of sample gas, wet (lb/lb•mole)
 P_s = Absolute sample gas pressure (inches of Hg)
 T_s = Average sample gas temperature (°F)
 V_s = Sample gas velocity (ft/min)
 $\sqrt{\Delta P}$ = Average square roots of velocity heads of stack gas (in H₂O)
 460 = Conversion constant (°F to °R)

9. Total flow of sample gas (acfm)

$$Q_a = (A_s)(V_s)$$

$$= (1.40)(3,200)$$

$$= 4,470 \text{ cfm}$$

Q_a = Volumetric flow rate at actual conditions (acfm)
 A_s = Cross sectional area of sampling location (ft²)
 V_s = Sample gas velocity (ft/min)

10. Total flow of sample gas (dscfm)

$$Q_{std} = \frac{(Q_a)(P_s)(17.647) \left(\frac{G_d}{100} \right)}{(T_s + 460)}$$

$$= \frac{(4,470)(25.40)(17.647) \left(\frac{91.9}{100} \right)}{(139 + 460)}$$

$$= 3,070 \text{ dscf}$$

Q_{std} = Volumetric flow rate at standard conditions, dry basis (dscfm)
 Q_a = Volumetric flow rate at actual conditions (acfm)
 P_s = Absolute sample gas pressure (inches of Hg)
 G_d = Percent of dry gas by volume in the gas stream
 T_s = Average sample gas temperature (°F)
 17.647 = Conversion factor (°R/inch Hg)
 460 = Conversion constant (°F to °R)

11. Isokinetics

$$\text{Isokinetics} = \frac{(K)(V_{msd})(T_s + 460)}{P_s \left(\frac{V_s}{60} \right) \left(\frac{144}{4(144)} \right) \left(\frac{G_d}{100} \right)}$$

$$= \frac{(0.0945)(43.85)(139 + 460)}{25.39 \left(\frac{3200}{60} \right) \left(\frac{(3.14159)(0.245^2)}{4(144)} \right) 60 \left(\frac{91.9}{100} \right)}$$

$$= 101.6\%$$

T_s = Average sample gas temperature (°F)
 $K = 0.09450$ = Conversion constant
 $V_{m(std)}$ = Standard volume (ft³) of gas through dry gas meter
 P_s = Absolute sample gas pressure (inches of Hg)
 V_s = Sample gas velocity (ft/min)
 D_n = Average diameter of nozzle (in)
 θ = Total sampling time (min)
 G_d = Percent of dry gas by volume in the gas stream
 144 = conversion factor, square inches to square feet

12. Concentration of Particulate

$$C_s = \frac{(K)(m_n)}{V_{m(std)}} \\ = \frac{(15.43)(0.00328)}{43.85} \\ = 0.0012 \text{ gr / dscf}$$

C_s = Concentration of particulate in stack gas, gr/dscf
 m_n = mass of particulate collected, grams
 $V_{m(std)}$ = Dry standard volume (ft³) of gas through meter
 K = 15.43 = conversion factor (grains/gram)

13. Particulate emissions (lbs/hr)

$$E_{lb/hr} = \frac{(C_s)(Q_{std})(60)}{7000} \\ = \frac{(0.0012)(3070)(60)}{7000} \\ = 0.030 \text{ lb/hr}$$

$E_{lb/hr}$ = Emission rate (lb/hr)
 C_s = Measured concentration in the gas stream (gr/dscf)
 Q_{std} = Volumetric flow rate at standard conditions, dry basis (dscfm)
60 = Conversion factor (min/hr)
7000 = Conversion factor (gr/lb)

14. Radium₂₂₆ Lower Limit of Detection (LLD) concentration (μCi/ml)

$$C_{LLD} = \frac{(K_1)(LLD)}{V_{m(std)}(K_2)} \\ = \frac{(1 \times 10^{-6})(1.0)}{1.24(1 \times 10^6)} \\ = 8.05 \times 10^{-12} \text{ } \mu\text{Ci / ml} \quad (\text{air})$$

C_{LLD} = Radium₂₂₆ Lower Limit of Detection concentration, μCi/ml of air
LLD = Radium₂₂₆ Lower Limit of Detection from lab*, pCi/sample
 $V_{m(std)}$ = Dry standard volume (m³) of gas through meter
 K_1 = 1×10^{-6} m³/ml = conversion factor
 K_2 = 1×10^6 pCi/μCi = conversion factor

Note: LLD, Actual and Possible error concentrations for Thorium 230, Lead 210 and Uranium Natural all calculated in a similar manner.

*Uranium Natural LLD = 3.34, based on 5 mg/sample x 0.667pCi/mg

15. Release Rate of Radium₂₂₆ (Ci/day)

$$RR_{Ci/day} = \frac{(\text{Amt. Collected})(Q_{std})(K_1)(K_2)}{V_{m(std)}} \\ = \frac{(2.4)(5216)(24)(1 \times 10^{-12})}{1.24} \\ = 2.42 \times 10^{-7} \text{ Ci/day}$$

RR = Release rate (Ci/day)
Amount collected = Radium₂₂₆ in the sample (pCi)
 Q_{std} = Dry standard volumetric flow rate (dsm³/hr)
 K_1 = Conversion factor (24hr/day)
 K_2 = Conversion factor (1×10^{-12} Ci/pCi)
 $V_{m(std)}$ = Dry standard volume (m³) of gas through meter

Note: Thorium 230, Lead 210 and U Nat. calculated similarly

16. U₃O₈ emissions (lbs/hr)

$$E_{lb/hr} = \frac{(\text{amount}_{U_{nat.}} \text{ collected})1.179(Q_{std})}{(K_1)(V_{mstd})(453.59 \times 10^6)} \\ = \frac{(332)(1.179)(5216)}{(0.667)(1.24)(453.59 \times 10^6)} \\ = 0.00544 \text{ lb/hr}$$

$E_{lb/hr}$ = Emission rate (lb/hr)
Amount collected = uranium natural in the sample (pCi)
 K_1 = 0.677 pCi/μg = $U_{nat.}$ radioactivity to mass conv. factor
1.179 = fraction of uranium nat. as U₃O₈ (molecular wt. of U₃O₈ / molecular wt. of 3U_{nat.} 842.0822/714.087)
 Q_{std} = Dry standard volumetric flow rate (dsm³/hr)
 453.6×10^6 = Conversion factor (μgram/lb)

APPENDICES

A. Field Testing Data

B. Computer Data Entry

C. Analytical Data

D. Equipment Calibration

E. Plant Production Data

F. Chain-of-Custody

G. Resumes of Test Personnel

APPENDIX A
FIELD TESTING DATA

Facility Coburn Job No: 981114

Run No. 1 Date: 10-29-98

Source/ I.D. No. Yellow Cake Paper

Stack: Area in² (A_s) 20.11 Dia (in) 16

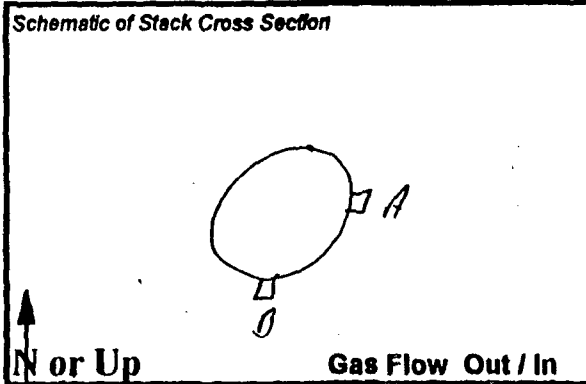
Operators Roster / Hinchey

Meter Box # 14 Calib. Factor (Y) 0.987

Nozzle # H-3 Diameter (D_n) 0.245

Pitot I.D. 0.242 Calib. Factor (C_p) 0.833

Part / Radio Chem Field Data



Western Environmental Services and Testing, Inc.

K Factor 2.8 2.0

Barometric Pressure (P_b) 25.40

Amb. °F 45 Assumed Moisture % 7

Static Stack Pressure "H₂O (+/-) -0.11

Probe Length / Material 2' 6" / SS

Pitot Tube Leak Check Before OK Middle - After OK

Initial Leak @ 15.0 "Hg = 0.000 ft³/min

Final Leak @ 10.0 "Hg = 0.000 ft³/min

Point	Clock Time	Dry Gas Meter (ft ³)	ΔP (Pitot) "H ₂ O	ΔH (Orifice) "H ₂ O		Pump Vac. "Hg	Temperature °F						
				Desired	Actual		Probe	T _s (stack)	T _m In	T _m Out	Filter	Exit	Flex Probe
B-6	0950	175.413	0.66	2.20	2.20	2.5	255	138	52	43	259	39	N/A
5	0955	179.78	0.70	2.30	2.30	3.0	256	139	58	43	256	37	
4	1000	184.30	0.74	2.45	2.45	3.0	257	138	62	47	259	35	
3	1005	188.89	0.72	2.40	2.40	3.0	256	139	66	44	254	38	
2	1010	193.29	0.71	2.10	2.10	3.0	254	140	69	44	249	43	
1	1015	197.58	0.68	2.05	2.05	3.0	254	139	72	45	248	50	
END	1020	201.857	-	-	-	-	-	-	-	-	-	-	
A-6	1023	201.857	0.56	1.70	1.20	2.0	257	140	66	50	251	48	
5	1028	205.70	0.63	1.90	1.40	2.5	256	141	73	50	249	47	
4	1033	209.80	0.59	1.80	1.80	2.5	257	139	78	51	252	50	
3	1038	213.84	0.65	1.95	1.95	2.5	260	142	81	51	250	52	
2	1043	218.02	0.67	2.00	2.00	2.5	258	139	84	52	246	55	
1	1048	222.26	0.69	2.10	2.10	2.5	257	138	86	53	250	56	
END	1053	226.550	-	-	-	-	-	-	-	-	-	-	
ALL													

Uncorrected V_m 51.137 ft³

Corrected V_m 50.472 ft³

%CO₂ 0.7 %CO 0

%O₂ 19.6 %N₂ 79.7

Sample Purge: Initial _____ Final _____

Volume Collected V_c 91.8 ml

Sample Time, 0 60 min

A00001

Job No: 99-1114 Run # 1
 Field Data Part/ Radio Chem Sample Box No: Apex
 Source ID No: VLD Filter No: x-1462

Impinger #	1	2	3	4	5
Contents/Vol.	0.1M H ₂ O by 10"m	0.1M H ₂ O by 10"m	Dry	Silica	
Tip Style*	M.O.D	G.B.S	M.O.D	Silica	
Final Wt.	744.6	707.2	608.8	8322	
Initial Wt.	709.3	682.1	604.2	820.4	
Difference	35.3	25.1	4.6	16.8	
Total (V _{lc})	81.8				

V _{lc} =	.816
V _{lc} =	818
ΔH =	2.08
T _s =	129
T _m =	59
V _{std} =	43.86
% M	8.69
M _d =	9191
V _{w gas} =	3.861
M _{wc} =	28.9
M _w =	28.01
V _s	3146
acfm	
dscfm	
EA	
% ISO	101.66

Calculations

$$V_{wc} = 0.04707(V_{lc})$$

$$V_{std} = \frac{(17.647)(V_{wc})(P_{bar} + \frac{\Delta H}{T_s})(Y)}{(460 + T_m)}$$

$$B_{ws} = \frac{V_{w(std)}}{V_{m(std)} + V_{w(std)}} \times 100\%$$

$$G_d = 100 - B_{ws}$$

$$M_d = 0.44(\%CO_2) + 0.32(\%O_2) + 0.28(\%N_2 + \%CO)$$

$$M_w = (M_d)(G_d/100) + (18)(B_{ws}/100)$$

$$P_s = (P_{bar}) + \frac{(P_g)}{(13.6)}$$

$$V_s = (K_p)(C_p)(60)(\sqrt{\Delta P}) \left(\frac{(\bar{T}_s + 460)}{(M_s)(P_s)} \right)$$

$$Q_a = (A_s)(V_s) \quad (\text{acfm})$$

$$Q_{std} = \frac{(Q_a)(P_s)(17.647) \left(\frac{G_d}{100} \right)}{(T_s + 460)}$$

$$I = \frac{K(\bar{T}_s + 460) \left(V_{m(std)} \right)}{(P_s) \left(\frac{V_s}{60} \right) \left(\frac{\pi D_n^2}{4} \right) \theta \left(\frac{D_g}{100} \right)}$$

V_{lc} = Volume of Liquid Collected (grams or ml)

M_d = Dry molecular weight of sample gas (lb/lb-mole)

M_w = Molecular weight of sample gas, wet (lb/lb-mole)

%CO₂ = Percent by volume of CO₂ in the gas stream

%O₂ = Percent by volume of oxygen in the gas stream

%CO+%N₂ = Percent by volume of CO and N₂ in the gas

G_d = Percent of dry gas by volume in the gas stream

B_{ws} = % by volume of water vapor in the gas stream

P_s = Absolute sample gas pressure (inches of Hg)

P_{bar} = Barometric pressure (inches of Hg)

P_g = Sample gas static pressure (inches of H₂O)

13.6 = Conversion factor (inches H₂O/inches of Hg)

C_p = Pitot tube constant

K_p = Velocity pressure coefficient (dimensionless) = 85.49

60 = Conversion factor (sec/min)

M_w = Molecular weight of sample gas, wet (lb/lb-mole)

P_s = Absolute sample gas pressure (inches of Hg)

T_s = Average sample gas temperature (°F)

V_s = Sample gas velocity (ft/sec)

$\sqrt{\Delta P}$ = Average square roots of velocity heads of gas (in H₂O)

460 = Conversion constant (°F to °R)

Q_a = Volumetric flow rate at actual conditions (acfm)

A_s = Cross sectional area of sampling location (ft²)

V_s = Sample gas velocity (ft/min)

Q_{std} = Vol. flow rate at standard conditions, dry (dscfm)

K = 0.09450 = constant

D_n = Average diameter of nozzle (ft)

θ = Total sampling time (min)

A0000

Western Environmental Services and Testing, Inc.

K Factor 3.0

Barometric Pressure (P_b) 25.40

Amb. °F 45 Assumed Moisture % 2

Static Stack Pressure "H₂O (+/-) -0.11

Probe Length / Material 7' Glass

Pitot Tube Leak Check OK OK OK
Before Middle After

Initial Leak @ 150 "Hg = 0.000 ft³/min

Final Leak @ 100 "Hg = 0.000 ft³/min

Facility Cobena Job No: 98-1114

Run No. 2 Date: 10-29-98

Source / I.D. No. Yellow Cake Dryer

Stack: Area in² (A_s) 201.1 Dia (in) 16

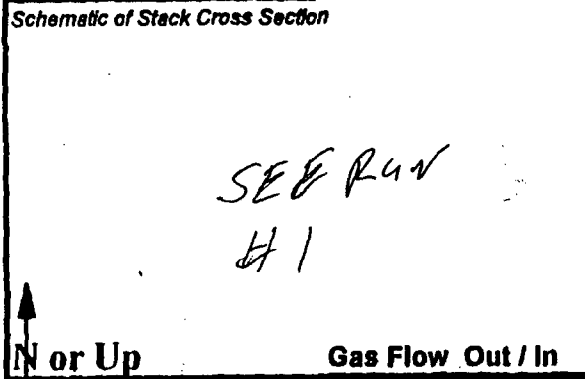
Operators Pacto / Hinchey

Meter Box # 14 Calib. Factor (Y) 0.987

Nozzle # 4-1 Diameter (D_n) 6.245

Pilot I.D. 24-2 Calib. Factor (C_p) 0.832

Pact / Radio Chem Field Data



Point	Clock Time	Dry Gas Meter (ft ³)	ΔP (Pitot) "H ₂ O	ΔH (Orifice) "H ₂ O		Pump Vac. "Hg	Temperature °F						
				Desired	Actual		Probe	T _s (stack)	T _m In	T _m Out	Filter	Exit	Flex Probe
A-6	1118	226.948	0.55	1.65	1.65	2.0	250	140	60	54	252	43	N/A
5	1123	230.41	0.62	1.85	1.85	2.0	254	142	72	54	251	39	
4	1128	234.49	0.66	2.00	2.00	2.5	256	139	74	54	254	39	
3	1133	238.71	0.68	2.05	2.05	2.5	253	139	79	54	257	42	
2	1138	242.96	0.70	2.16	2.10	2.5	249	138	81	54	257	46	
1	1143	247.32	0.67	2.00	2.00	2.5	252	138	82	54	254	47	
END	1148	251.536	—	—	—	—	—	—	—	—	—	—	
B-6	1152	251.536	0.62	1.85	1.85	2.5	251	140	78	55	256	50	
5	1157	255.89	0.70	2.10	2.16	2.5	256	142	83	55	259	49	
4	1202	259.99	0.74	2.20	2.20	3.0	254	141	85	56	261	48	
3	1207	264.49	0.79	2.40	2.40	3.5	252	140	89	56	260	49	
2	1212	269.22	0.77	2.30	2.30	3.5	251	139	89	56	262	52	
1	1217	273.83	0.72	2.15	2.15	3.0	252	138	90	56	261	55	
END	1222	278.287	—	—	—	—	—	—	—	—	—	—	
ALL													

Uncorrected V_m 51.539 ft³

Corrected V_m 50.869 ft³

%CO₂ 0.9 %CO 0.0

%O₂ 19.8 %N₂ 79.3

Sample Purge: Initial _____ Final _____

Volume Collected V_c 90.5 ml

Sample Time, θ 60 min

A000003

Job No: 98-1114 Run # 2
 Field Data Part/Ratio Chem Sample Box No: Aper
 Source ID No: VLD Filter No: X-1463

Impinger #	1	2	3	4	5
Contents/Vol.	0.10 HNO ₃ 100 ml	0.10 HNO ₃ 100 ml	Dry	S.Lica	
Tip Style*	MOD	GRS	MOD	S.Lica	
Final Wt.	729.2	704.6	624.5	847.1	
Initial Wt.	705.3	682.2	617.4	820.0	
Difference	23.9	22.4	7.1	17.1	
Total (V _{lc})	70.5				

V _{std}	0.877
V _{lc}	70.5
ΔH	2.05
T _s	140
T _m	68
V _{std}	43.489
% M	7.11
M _d	9289
V _w	3.328
M _w	28.94
M _w	28.16
V _s	3.211
acfm	
dscfm	
EA	
% ISO	98.71

Calculations

$$V_{wc} = 0.04707(V_{lc})$$

$$V_{std} = \frac{(17.647)(V_{wc})(P_{bar} + \frac{\Delta H}{17.3})(Y)}{(460 + T_m)}$$

$$B_{ws} = \frac{V_{w(std)}}{V_{w(std)} + V_{w(std)}} \times 100\%$$

$$G_d = 100 - B_{ws}$$

$$M_d = 0.44(\%CO_2) + 0.32(\%O_2) + 0.28(\%N_2 + \%CO)$$

$$M_s = (M_d)(G_d/100) + (18)(B_{ws}/100)$$

$$P_s = (P_{bar}) + \frac{(P_s)}{(13.6)}$$

$$V_s = (K_p)(C_p)(60)(\sqrt{\Delta P}) \left(\sqrt{\frac{(T_s + 460)}{(M_s)(P_s)}} \right)$$

$$Q_a = (A_s)(V_s) \quad (\text{acfm})$$

$$Q_{std} = \frac{(Q_a)(P_s)(17.647) \left(\frac{G_d}{100} \right)}{(T_s + 460)}$$

$$I = \frac{K(T_s + 460) \left(V_{m(std)} \right)}{(P_s) \left(\frac{V_s}{60} \right) \left(\frac{\pi D_n^2}{4} \right) \theta \left(\frac{D_g}{100} \right)}$$

V_{lc} = Volume of Liquid Collected (grams or ml)

M_d = Dry molecular weight of sample gas (lb/lb-mole)

M_s = Molecular weight of sample gas, wet (lb/lb-mole)

%CO₂ = Percent by volume of CO₂ in the gas stream

%O₂ = Percent by volume of oxygen in the gas stream

%CO+%N₂ = Percent by volume of CO and N₂ in the gas

G_d = Percent of dry gas by volume in the gas stream

B_{ws} = % by volume of water vapor in the gas stream

P_s = Absolute sample gas pressure (inches of Hg)

P_{bar} = Barometric pressure (inches of Hg)

P_g = Sample gas static pressure (inches of H₂O)

13.6 = Conversion factor (inches H₂O/inches of Hg)

C_p = Pitot tube constant

K_p = Velocity pressure coefficient (dimensionless) = 85.49

60 = Conversion factor (sec/min)

M_s = Molecular weight of sample gas, wet (lb/lb-mole)

P_s = Absolute sample gas pressure (inches of Hg)

T_s = Average sample gas temperature (°F)

V_s = Sample gas velocity (ft/sec)

$\sqrt{\Delta P}$ = Average square roots of velocity heads of gas (in H₂O)

460 = Conversion constant (°F to °R)

Q_a = Volumetric flow rate at actual conditions (acfm)

A_s = Cross sectional area of sampling location (ft²)

V_s = Sample gas velocity (ft/min)

Q_{std} = Vol. flow rate at standard conditions, dry (dscfm)

K = 0.09450 = constant

D_n = Average diameter of nozzle (ft)

θ = Total sampling time (min)

A00004

APPENDIX B
COMPUTER DATA ENTRY

Cogema
 Linch, Wyoming
 Yellow Cake Dryer Stack

Run: 1

Western Environmental
 Job Number 98-1114
 Particulate

Method: 5
 For Particulate
 Area: 1.40 sq.ft.
 Time/Point: 5.0 min.
 Sample Time: 60.0 min.

Static Pressure: -0.11 in. H2O
 Barometric: 25.40 in. Hg
 Silica Gel: 16.8grams
 Condensate: 65.0grams
 Total Wt. 81.8grams

Meter No: 14
 Meter Correction Factor: 0.987
 Sample Box No: Apex
 Pitot Tube Cp: 0.833
 Probe Tip Diameter 0.245
 Filter No: X-1462
 % CO₂ 0.7
 % O₂ 19.6

Date/Start Time 10/29/98 9:50

Date/Stop Time 10/29/98 10:53

Pretest Leak Rate 0.000 cfm @ 15 in.Hg

Posttest Leak Rate 0.000 cfm @ 10 in.Hg

Point	Clock Time	Dry Gas Meter	Pitot (in. H2O)	Actual ΔH	Stack Temp.	Dry Gas Meter Temp		Vol. per Point	√Δ p	% Iso
						Inlet	Outlet			
B 6	9:50	175.413	0.66	2.20	138	52	43	4.37	0.812	106.8
5	9:55	179.780	0.70	2.30	139	58	43	4.52	0.837	106.8
4	10:00	184.300	0.74	2.45	138	62	43	4.59	0.860	105.0
3	10:05	188.890	0.72	2.40	139	66	44	4.40	0.849	101.6
2	10:10	193.290	0.71	2.10	140	69	44	4.29	0.843	99.5
1	10:15	197.580	0.68	2.05	139	72	45	4.28	0.825	100.9
End	10:20	201.857								
A 6	10:23	201.857	0.56	1.20	140	66	50	3.84	0.748	99.8
5	10:28	205.700	0.63	1.90	141	73	50	4.10	0.794	100.0
4	10:33	209.800	0.59	1.80	139	78	51	4.04	0.768	101.1
3	10:38	213.840	0.65	1.95	142	81	51	4.18	0.806	99.6
2	10:43	218.020	0.67	2.00	139	84	52	4.24	0.819	98.9
1	10:48	222.260	0.69	2.10	138	86	53	4.29	0.831	98.3
End	10:53	226.550								
				2.0375	139		59	51.137	0.8159	

B00001

Cogema
 Linch, Wyoming
 Yellow Cake Dryer Stack

Run: 2

Western Environmental
 Job Number 98-1114
 Particulate

Method: 5
 For Particulate
 Area: 1.40 sq.ft.
 Time/Point: 5.0 min.
 Sample Time: 60.0 min.

Static Pressure: -0.11 in. H2O
 Barometric: 25.40 in. Hg
 Silica Gel: 17.1grams
 Condensate: 53.4grams
 Total Wt. 70.5grams

Meter No: 14
 Meter Correction Factor: 0.987
 Sample Box No: Apex
 Pitot Tube Cp: 0.833
 Probe Tip Diameter 0.245
 Filter No: X-1463
 % CO2 0.9
 % O2 19.8

Date/Start Time 10/29/98 11:18

Date/Stop Time 10/29/98 12:22

Pretest Leak Rate 0.000 cfm @

15 in.Hg

Pretest Leak Rate 0.000 cfm @

10 in.Hg

Point	Clock Time	Dry Gas Meter	Pitot (in. H2O)	Actual Δ H	Stack Temp.	Dry Gas Meter Temp		Vol. per Point	√Δ p	% Iso
						Inlet	Outlet			
A 6	11:18	226.748	0.55	1.65	140	60	54	3.66	0.742	96.5
5	11:23	230.410	0.62	1.85	142	72	54	4.08	0.787	100.4
4	11:28	234.490	0.66	2.00	139	74	54	4.22	0.812	100.2
3	11:33	238.710	0.68	2.05	139	79	54	4.25	0.825	99.0
2	11:38	242.960	0.70	2.10	138	81	54	4.36	0.837	99.8
1	11:43	247.320	0.67	2.00	138	82	54	4.22	0.819	98.5
End	11:48	251.536								
B 6	11:52	251.536	0.62	1.85	140	78	55	4.35	0.787	106.2
5	11:57	255.890	0.70	2.10	142	83	55	4.10	0.837	93.9
4	12:02	259.990	0.74	2.20	141	85	56	4.50	0.860	99.9
3	12:07	264.490	0.79	2.40	140	88	56	4.73	0.889	101.3
2	12:12	269.220	0.77	2.30	139	89	56	4.61	0.877	99.8
1	12:17	273.830	0.72	2.15	138	90	56	4.46	0.849	99.6
End	12:22	278.287								
				2.0542	140		67	51.539	0.8267	

B00002

APPENDIX C
ANALYTICAL DATA

Cogema
Linch, Wyoming
Yellow Cake Dryer Stack

Western Environmental
Job Number 98-1114
Particulate

Particulate Weights

Run Number:	<u>1</u>	<u>2</u>
	10/29/98 9:50	10/29/98 11:18
	10/29/98 10:53	10/29/98 12:22

Filter No:	X-1462	X-1463
Final Weight	0.4448 g	0.4390 g
Initial Weight	0.4428 g	0.4386 g
Net Gain	2.00 mg	0.40 mg

Acetone:	Blank		
Volume	100 ml	124 ml	114 ml
Final Weight	113.1835 g	113.2980 g	114.4037 g
Initial Weight	113.1834 g	113.2966 g	114.3999 g
Correction Facto	1.00 mg/l	0.12 mg	0.11 mg
Corrected Net Gain		1.28 mg	3.69 mg

Total Front Half Weight - m,	3.28 mg	4.09 mg
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C00001

FILTER ANALYSIS

Job Number 98-1114
Client Name Cogema
Unit Yellow Cake Dryer

Run Date 10/29/98

RUN 1	FILTER #	X-1462	AVERAGE
Filter + Particulate	0.4448	0.4448	0.4448
Filter Tare	0.4428	0.4428	0.4428
Particulate Weight	0.0020	0.0020	0.0020

RUN 2	FILTER #	X-1463	AVERAGE
Filter + Particulate	0.4390	0.4390	0.4390
Filter Tare	0.4386	0.4385	0.4386
Particulate Weight	0.0004	0.0005	0.0004

BLANK	FILTER #	X-1464	AVERAGE
Filter + Particulate	0.4359	0.4357	0.4358
Filter Tare	0.4341	0.4341	0.4341
Particulate Weight	0.0018	0.0016	0.0017

Analyst GLH

Date 10/29/98

C00002

ACETONE FRONT ANALYSIS

Job Number 98-1114
Client Name Cogema
Unit Yellow Cake Dryer

Run Date 10/29/98

RUN 1	BEAKER	3927	VOLUME	124	AVERAGE
Beaker + Particulate		113.2981	113.2979		113.2980
Beaker Tare		113.2966	113.2965		113.2966
Particulate Weight		0.0015	0.0014		0.0014

RUN 2	BEAKER	3928	VOLUME	114	AVERAGE
Beaker + Particulate		114.4036	114.4038		114.4037
Beaker Tare		114.3998	114.4000		114.3999
Particulate Weight		0.0038	0.0038		0.0038

BLANK	BEAKER	3926	VOLUME	100	AVERAGE
Beaker + Particulate		113.1835	113.1835		113.1835
Beaker Tare		113.1834	113.1834		113.1834
Particulate Weight		0.0001	0.0001		0.0001

Analyst GLH

Date 10.29-98

C00003

WESTERN ENVIRONMENTAL SERVICES AND TESTING INC.
 913 Foster Road
 Casper, Wyoming 82601
 307/234-5511

76 Imperial Drive, Unit I
 Evanston, Wyoming 82930
 307/789-6420

Cogema
 98-1114

Yellow Cake Dryer
 October 29, 1998

Sample Location	Run #	Radium 226 pCi/sample	Ra226 LLD pCi	Thorium 230 pCi/sample	Th230 LLD pCi	Lead 210 pCi/sample	Pb210 LLD pCi	Uranium as U pCi
Front Half	1	2.4 ± 0.8	1.0	2.4 ± 1.0	0.4	28.2 ± 6.4	10.2	332
Front Half	2	1.4 ± 0.6	1.0	0.6 ± 0.4	0.4	44.4 ± 6.6	10.2	430

Date Submitted: 10-29-98
 Analyzed By: CL
 Date Analyzed : 12-03-98

J.P. Madala

Analytical Chemist

The analyses, opinions or interpretations contained in this report are based on observations and material supplied by the client for whose exclusive and confidential use this report has been made. The interpretations or opinions expressed represent the best judgement of Western Environmental Services and Testing, Inc. Western Environmental assumes no responsibility and makes no warranty or representations, expressed or implied as to the productivity, proper operations or profitability however of any oil, gas, coal, mineral, property, well, sand, soil or any other application or connection with which this report is used or relied upon for any reason.

C00004

APPENDIX D
EQUIPMENT CALIBRATION

**WESTERN ENVIRONMENTAL SERVICES AND TESTING INC.
METER BOX CALIBRATION FORM**

Meter Box Num: 14
Pb = 24.800

Average DGM Y = 0.987
Delta H @ = 1.866

Tech: WP
Date: 8/24/98

Orifice I.D.= 48		K1= 0.3408		Orifice I.D.= 81		K1= 0.9932	
	1	2		1	2		
DGM Final	614.823	617.110		623.907	630.487		
Initial	612.542	614.823		617.303	623.907		
Vm	2.281	2.287		6.604	6.580		
Temp In/Out	79 75 80 75	79 75 80 75		82 76 84 76	84 76 86 77		
Avg. Tm °R/°F	537 77	537 77		540 80	541 81		
Delta H	0.53	0.53		4.60	4.60		
Time:	5 1.10 5.018	5 0.09 5.002		5 0.01 5.000	5 0.08 5.001		
Orifice Temp.	68	68		68	68		
Vacuum "Hg	19.0	19.0		12.0	12.0		
Vm (std)	1.861	1.866		5.431	5.399		
Vcr (std)	1.846	1.840		5.360	5.361		
DGMCF Y	0.992	0.986		0.987	0.993		
Delta H @	1.803	1.803		1.879	1.875		
Orifice I.D.= 73		K1= 0.8073		Orifice I.D.=		K1=	
	1	2					
DGM Final	599.530	604.880					
Initial	594.169	599.530					
Vm	5.361	5.350					
Temp In/Out	73 73 74 73	74 74 77 74					
Avg. Tm °R/°F	533 73	535 75					
Delta H	3.10	3.10					
Time:	5 0.05 5.001	4 59.88 4.998					
Orifice Temp.	68	68					
Vacuum "Hg	14.0	14.0					
Vm (std)	4.441	4.419					
Vcr (std)	4.357	4.354					
DGMCF Y	0.981	0.985					
Delta H @	1.922	1.917					

Meter Box # 14 Calibration

D00001

THERMOCOUPLE CALIBRATION SHEET

Meter Box No : 14

Tech : WP

Date : 10/14/98

Reference: Mercury-In-Glass ASTM 3F

Source:	Reference Thermometer		Thermocouple		% Difference
	°F	°R	°F	°R	°R
Meter In :					
Ice Bath	33	493	34	494	-0.20
Boiling Water	203	663	205	665	-0.30
Hot Oil	310	770	312	772	-0.26
Meter Out :					
Ice Bath	34	494	32	492	0.40
Boiling Water	204	664	205	665	-0.15
Hot Oil	314	774	311	771	0.39
Probe :					
Ice Bath	36	496	34	494	0.40
Boiling Water	204	664	205	665	-0.15
Hot Oil	312	772	311	771	0.13
Stack :					
Ice Bath	34	494	33	493	0.20
Boiling Water	202	662	204	664	-0.30
Hot Oil	310	770	311	771	-0.13
Oven :					
Ice Bath	33	493	32	492	0.20
Boiling Water	203	663	204	664	-0.15
Hot Oil	308	768	309	769	-0.13
Exit :					
Ice Bath	32	492	33	493	-0.20
Boiling Water	204	664	205	665	-0.15
Hot Oil	310	770	311	771	-0.13
Auxiliary :					
Ice Bath	33	493	32	492	0.20
Boiling Water	203	663	204	664	-0.15
Hot Oil	312	772	310	770	0.26

WESTERN ENVIRONMENTAL

PITOT TUBE CALIBRATION

Pitot Tube ID No. : 24-2 High side calibration factor : 0.833
 Performed by: MRC Low side calibration factor : 0.833
 Calibration Date : 9/17/98 Comments: _____

A-Side Calibration (high side)			
ΔPstd' (in.) H ₂ O	ΔPs' (in.) H ₂ O	Cp (S) ^a	Dev. ^b
0.91	1.30	0.832	-0.002
0.91	1.30	0.832	-0.002
0.92	1.30	0.836	0.003
Average (Cp')		0.833	
B-Side Calibration (low side)			
ΔPstd' (in.) H ₂ O	ΔPs' (in.) H ₂ O	Cp (S) ^a	Dev. ^b
0.91	1.30	0.832	-0.002
0.91	1.30	0.832	-0.002
0.92	1.30	0.836	0.003
Average (Cp')		0.833	

$$Cp (S)^a = Cp(std) \sqrt{\frac{\Delta Pstd}{\Delta Ps}}$$

Temperature (°F) : 80

Humidity (%) : 42

Dev.^b = Cp (S)^a - Cp' (must be ≤ 0.01)

Date: 9/17/98

Cp' (A) - Cp' (B) = 0.000 (must be ≤ 0.01)

Cp (std)* : 0.994

Cp' (A) = 0.833

Cp' (B) = 0.833

Standard Pitot No. : 1

*Cp (std) obtained from Dwyer Instruments air velocity calculator.

Calibrations were done in accordance with CFR Title 40, Part 60, Appendix A, July 1, 1994.

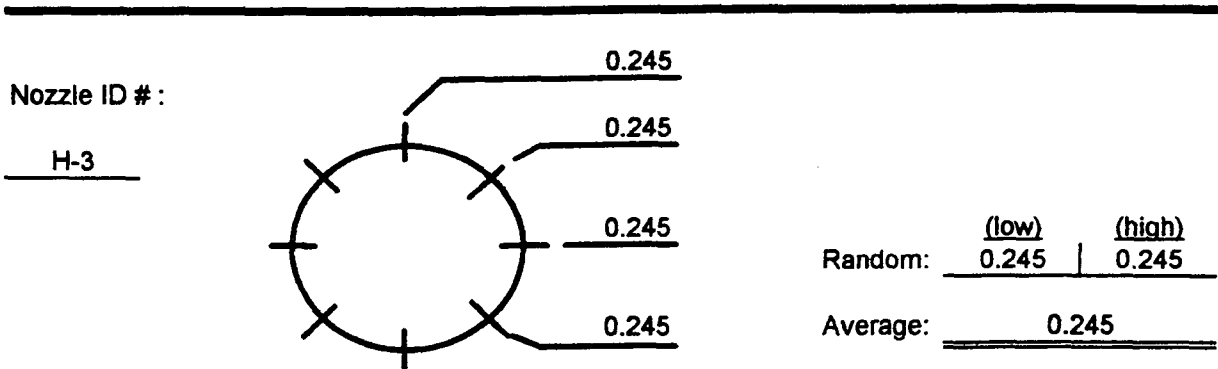
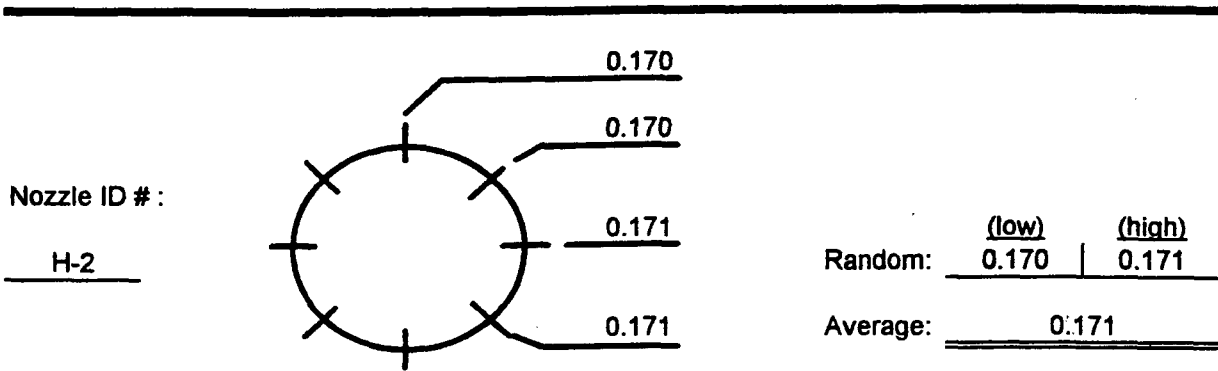
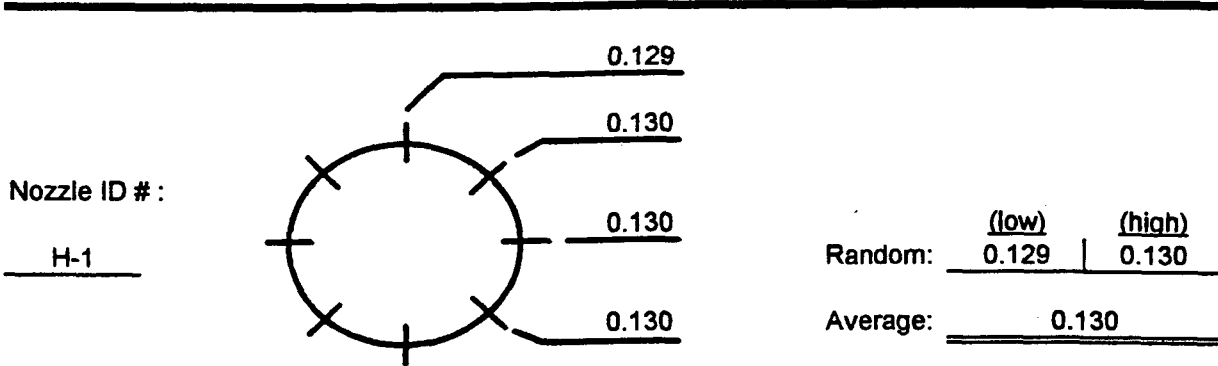
D00003

WESTERN ENVIRONMENTAL SERVICES AND TESTING, INC.
NOZZLE CALIBRATION DATA

Date: 10/5/98

Technician: SAH

Page: 1 of 3



The difference between the high and low must be within 0.004 inches.

APPENDIX E

PLANT PRODUCTION DATA

APPENDIX F

CHAIN-OF-CUSTODY



WESTERN ENVIRONMENTAL SERVICES AND TESTING, INC.

913 Foster Road, Casper, WY 82601 (307)234-5511 FAX (307)234-8324
 P.O. Box 1626, San Marcos, TX 78667-1626 (512)392-7788 FAX (512)392-7790
 PO Box 754, Evanston, WY 82935 (307)789-6420 FAX (307)789-6446
 5420 Yellowstone, Ste E, Cheyenne, WY 82009 (307)632-8888 FAX (307)632-8190

CHAIN OF CUSTODY RECORD

PROJECT NO.: 98-1114 Cobena CONTACT NAME John Vase Lin TELEPHONE NO. _____

Recovered By: Print Name		Signature		ANALYSIS													
<u>Will Poston</u>		<u>Will Poston</u>		RECOVERY		SOLUTION	No. of Containers	Particulate	Cu	Zn	Pb	Cd	Mn	Ni	Co	Fe	Remarks
SAMPLE ID	SAMPLE LOCATION	DATE	TIME	FILTER #													
98-1114-1	Yellow Cake Dryer	1	10/29/98	0950	X-1462	1	X	X	X	X	X	X					Run 1 Filter
2	↓	1	↓	↓	Acetone	1	X	X	X	X	X	X					Front Acetone
3	↓	1	↓	↓	0.1N HNO3	1		X	X	X	X	X					Front 0.1N HNO3
4	↓	1	↓	↓	0.1N HNO3	1		X	X	X	X	X					Imp. Catch
5	Yellow Cake Dryer	2	10/29/98	1118	X-1463	1	X	X	X	X	X	X					Run 2 Filter
6	↓	2	↓	↓	Acetone	1	X	X	X	X	X	X					Front Acetone
7	↓	2	↓	↓	0.1N HNO3	1		X	X	X	X	X					Front 0.1N HNO3
8	↓	2	↓	↓	0.1N HNO3	1		X	X	X	X	X					Imp. Catch
1114-Blank-1	yellow Cake Dryer	-	10/29/98	0935	Acetone	1	X	X	X	X	X	X					Acetone Blank
2	↓	-	↓	↓	0.1N HNO3	1		X	X	X	X	X					0.1N HNO3 Blank
3	↓	-	↓	↓	Filter	1	X	X	X	X	X	X					Filter Blank

COMMENTS: All sample were recovered AFTER EACH TEST AND taken to WEST Casper Lab for analysis.

Relinquished by: (Signature) <u>Will Poston</u>	Company <u>WEST</u>	Date <u>10/29/98</u>	Time <u>1300</u>	Received by: (Signature)	Company	Date	Time
Relinquished by: (Signature)	Company	Date	Time	Received by: (Signature)	Company	Date	Time
Dispatched by: (Signature) <u>Will Poston</u>	Company <u>WEST</u>	Date <u>10/29/98</u>	Time <u>1610</u>	Received for Laboratory by: <u>Dary Harris</u>	Company	Date <u>10-29-98</u>	Time <u>1610</u>
Method of Shipment:							

F00001

APPENDIX G

RESUMES OF TEST PERSONNEL



PROFESSIONAL PROFILE

SCOTT A. HINCHEY Environmental Specialist II

Technical Expertise:

- Domestic & International
- Evaluation of Air Pollution Control Devices
- Source Emission Testing
- Calibration and Maintenance of Sampling Equipment
- Hazardous Material Trial Burns
- Test Method Regulations
- VOST
- Portable Analyzer

Technical Experience:

Mr. Hinchey has provided environmental source testing since 1993. His experience includes operation, maintenance, troubleshooting and supervision of tests on various emission sources. He is proficient in EPA methods 1 - 6, 8, 12, 13, 15, 17, 20, 21, 26, 29, 201 and 202. Mr. Hinchey has considerable experience in sample recovery and chain-of-custody procedures for particulate, HCL, metals, SO₂, and organics. He has six years experience in Part 75 (Title 40) RATA investigations across the country.

Certification:

OSHA
MSHA
PEC
H₂S



PROFESSIONAL PROFILE

WILL POSTON

Environmental Specialist I

**Technical
Expertise:**

- Domestic & International
- Source Emission Testing
- Calibration and Maintenance of Sampling Equipment
- Monitoring Equipment Repair

**Technical
Experience:**

Mr. Poston has provided source testing since 1996. He has been a part of over 75 tests since coming to WEST. His experience is with tests working with EPA methods 1-5. Mr. Poston has experience in sample recovery and chain-of-custody procedures for particulate.

Certification:

OSHA
MSHA
H₂S

APPENDIX 4

Maps

**THIS PAGE IS AN
OVERSIZED DRAWING OR
FIGURE,
THAT CAN BE VIEWED
AT THE RECORD TITLED:
“IRIGARAY PROJECT,
GENERAL LOCATION MAP
MINE UNIT 1 THRU 9,
PERMIT TO MINE NO. 478.”**

**WITHIN THIS PACKAGE... OR
BY SEARCHING USING THE
DOCUMENT/REPORT NO.**

D-01

**THIS PAGE IS AN
OVERSIZED DRAWING OR
FIGURE,**

**THAT CAN BE VIEWED AT THE
RECORD TITLED:**

**“CHRISTENSEN RANCH,
AREA FACILITIES LOCATION MAP,
PERMIT TO MINE NO. 478.”**

**WITHIN THIS PACKAGE... OR
BY SEARCHING USING THE
DOCUMENT/REPORT NO.**

D-02X