COGEMA
Mining, Inc.

February 29, 2000

DOCKET NO. 40-8502
License No. SUA-1341

Dr. Blair Spitzberg
Section Chief
U. S. Nuclear Regulatory Commission
Division of Nuclear Material Safety - Region IV
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 Dr. Spitzberg:

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, 1999 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,

Tom Hardgrove

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. Vaselin, C. Toal

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COGEMA
Mining, Inc.

IRIGARAY AND CHRISTENSEN RANCH PROJECTS

SEMI-ANNUAL EFFLUENT REPORT (10 CFR 40.65)
July 1, 1999 - December 31, 1999

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

February, 2000

COGEMA Mining, Inc.
Irigaray and Christensen Ranch Projects

SEMI-ANNUAL EFFLUENT AND MONITORING REPORT
July 1, 1999 through December 31, 1999

Source Material License No. SUA-1341
Docket No. 40-8502
and
Wyoming Permit To Mine No. 478

February, 2000

SEMI-ANNUAL EFFLUENT AND MONITORING REPORT
July 1, 1999 through December 31, 1999
Irigaray and Christensen Ranch Projects

1.0 INTRODUCTION

In accordance with Section 12.1 of the NRC Source Material License No. SUA-1341, and requirements of WDEQ Permit to Mine No. 478, COGEMA Mining, Inc. (COGEMA) hereby submits the results of the Irigaray and Christensen Ranch Project effluent and environmental monitoring programs for the semi-annual report period of July 1, 1999 through December 31, 1999.

2.0 OPERATIONAL MONITORING DATA

2.1 Operations Summary

2.1.1 Operations Summary - Irigaray Project

Irigaray plant production operations consisted of processing uranium loaded resin from the Christensen Ranch Project. This involves elution of the resin and then precipitation, filtering and drying of the yellowcake. During the 6 month report period, a total of 103,538 pounds of uranium as U_3O_8 was captured. The plant restoration operations consisted of treating wellfield groundwater with reverse osmosis filtration units.

Irigaray wellfield restoration operations continued in Production Units 8 and 9, which are in the reverse osmosis filtration/permeate injection phase.

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

2.1.2 Operations Summary - Christensen Ranch Project

Christensen plant production operations consisted of processing wellfield recovery solutions through ion exchange resin columns, and then transporting the loaded resin to the Irigaray Project. The stripped resin is then transported back to the Christensen Ranch Project for reuse. The plant restoration operations consisted of treating wellfield groundwater with reverse osmosis filtration units.

Christensen wellfield production operations were conducted in Mine Unit 5, wellfield modules 5-1, 5-3, 5-5, and in Mine Unit 6, wellfield modules 6-2, 6-5 and 6-6. Wellfield restoration operations continued in Production Unit 3, wellfield module 3-1, which is in the reverse osmosis filtration/permeate injection phase.

The layout of the Christensen Ranch Project is shown on the Christensen Project - General 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 Ranch Projects are listed in the following tables. All volumes injected or recovered at the Irigaray Project are from restoration activities. The average production recovery flow rate at the Christensen Ranch Project was 1,841 gpm for the 6 month period. Note that the NRC and DEQ licenses authorize a maximum flow rate of 4,000 gallons per minute, exclusive of restoration flow. The average production bleed at the Christensen Ranch Project was 38.2 gpm, which equaled 2.1 % of the total production recovery.

Irigaray Project - Restoration Flow Volumes (Mine Units 8-9)

1999 Month	Gallons Injected x 1,000	Gallons Recovered x 1,000	Average Recovery Flow Rate (gpm)
July	6,830	7,920	196
August	9,221	10,573	213
September	7,604	8,667	215
October	8,640	10,267	205
November	7,246	8,216	204
December	7,414	8,269	205
	46,955 total	**53,912** total	**206** 6 month average

Christensen Ranch Project - Production Flow Volumes (Mine Units 5 & 6)

1999 Month	Gallons Injected x 1,000	Gallons Recovered x 1,000	Average Recovery Flow Rate (gpm)
July	59,531	60,694	1,505
August	89,461	90,715	1,827
September	77,364	78,398	1,960
October	91,883	95,775	1,904
November	75,299	76,525	1,902
December	76,757	78,153	1,938
	470,295 total	**480,260** total	**1,841** 6 month average

Christensen Ranch Project - Restoration Flow Volumes (Mine Unit 3)

1999 Month	Gallons Injected x 1,000	Gallons Recovered x 1,000	Average Recovery Flow Rate (gpm)
July	5,939	8,411	209
August	7,257	10,504	209
September	5,521	8,263	206
October	6,318	9,493	188
November	5,379	7,926	197
December	5,633	7,887	196
	36,047 total	**52,484 total**	**201 6 month average**

2.2.2 Mechanism for Determining Volumes

Recovery and injection gallons from the Irigaray Project were calculated by totalizing flow meters on the recovery and injection trunklines.

At the Christensen Ranch Project, recovery and injection gallons were calculated by totalizing flow meters on the plant recovery and injection trunklines. 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 pressures from exceeding the limits specified in Section 11.1 of the NRC license (120 psi at the Irigaray Project and 140 psi at the Christensen Ranch Project). Section 11.1 of the NRC license also requires that the injection manifold pressures be recorded daily. However, to better monitor the injection pressures, chart recorders continuously record the injection manifold pressures at each wellfield module.

The recorders at the Christensen Project showed occasional short-term pressure readings which exceeded the 140 psi operating pressure limit, but remained below the maintenance limit of 168 psi. These instances resulted from activities such as flow adjustments, electrical power failures, and injection pump stop and/or restart. 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 120 psi operating pressure limit were recorded at the Irigaray Project.

2.3 Waste Water Control

2.3.1 Evaporation Ponds

Weekly inspections were conducted at the eleven lined evaporation ponds at the Irigaray Project, and the four lined evaporation ponds and one unlined permeate storage pond at the Christensen Ranch Project. No freeboard exceedances were observed during this reporting period.

2.3.2 Deep Disposal Well

To date, a total of 23,174,496 gallons has been injected into COGEMA's Class I injection well, COGEMA DW No. 1, located at the Christensen Ranch Project.

2.4 Well Integrity Test Summary

Mechanical integrity testing was conducted on a total of 201 wells from Mine Units 6, 7, and 9 at the Irigaray Project, and Mine Unit 3 at the Christensen Ranch Project. A total of 11 well failures (5.4%) were located. A plan for utilization or abandonment of these wells will be submitted to the NRC and DEQ. The testing was done to meet the requirement for well retesting after five years of operation. No new wells were tested since none were installed. A summary of all mechanical integrity test results is given 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 locations at both the Irigaray and Christensen Ranch Projects. In addition, Willow Creek samples are collected from Willow Creek immediately adjacent to the operating wellfields at both projects. The sampling locations are given on the Environmental Monitoring Station Locations map located in Appendix 4 of this report. The sample analysis data are given in Table 1, located at the end of the text portion of this report along with all other tables. No abnormal results were found and no trends were noted. A Powder River sample is collected on an annual basis during late spring, therefore, none was conducted during this report period.

3.1.2 NPDES Monitoring Program

Surface discharge occurred at the Irigaray Project from discharge point #001 intermittently and was sampled 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 Units 8 and 9, as well as treated water from the restoration ponds.

On August 23, 1999, the Wyoming Department of Environmental Quality, Water Quality Division's, Technical Support Section was notified that based on Part 2, A., 2, C., of COGEMA's NPDES Discharge Permit No. WY 0028801, an exceedance of permit effluent limitations occurred because

of an unanticipated noncompliance due to an upset of the Irigaray reverse osmosis system (RO).

On August 21, 1999, during routine inspection of the Irigaray surface discharge RO system, the plant operator discovered the conductivity of the surface discharge to be approximately 10,000 umhos/cm^2. The surface discharge was immediately discontinued. A sample of the surface discharge was collected and delivered to the on-site laboratory and analyzed for conductivity and uranium. The analysis showed a conductivity of 9,730 umhos/cm^2 and a natural uranium concentration of 51.3 mg/l (as U). An investigation revealed that an inter-connector "O" ring in the RO had failed, allowing discharge water to by-pass the RO membrane. An exact determination of total gallons discharged was not possible since it could not be determined exactly when the failure occurred. It is known that the surface discharge was started at 1:00 P.M. on August 21, 1999. If the assumption is made that the failure occurred at the start-up of the RO, then the maximum amount of water that could have been discharged from start-up to the discovery of the high conductivity's would be 14,597 gallons. The RO system was immediately repaired and has since operated properly.

The Discharge Monitoring Report for the month of August listed the maximum monthly average for total natural uranium at 25.7 mg/l. This average is not representative of the true monthly average but is the result of averaging the short duration, unanticipated noncompliance sample with the routine monthly sample. The routine monthly sample listed the natural uranium concentration at 0.1420 mg/l. The sample analysis data are given in Tables 2A and 2B. Note that no discharge occurred during the report period at the Christensen Ranch Project (discharge point #002) under the Wyoming NPDES Permit No. WY0033642.

3.1.3 Evaporation Pond Analysis

Sampling of the evaporation ponds is conducted on a quarterly basis. The sample analysis data are given in Table 3.

3.2 Groundwater Monitoring Program Results

3.2.1 Irigaray and Christensen Ranch Projects

Sampling of the monitor and trend wells is conducted on a weekly, biweekly, monthly or quarterly basis at the Irigaray and Christensen Ranch Projects. The sample time frame is dependant on the status of the well, or wellfield in which it is located. Sample analysis data from the monitor and trend wells are given in Appendix 2. Locations of the monitor and trend wells are found on the General Location Maps, located in Appendix 4.

Ten monitor wells were on excursion status during this report period. Seven of these wells are at the Irigaray Project, located within restored wellfields or wellfields undergoing restoration. The other three wells are located at the Christensen Ranch Project, two of which were removed from excursion status and are summarized below.

Perimeter Ore Zone Monitor Well 6MW4: Christensen Production Unit 6.
Date of Initial Excursion: July 9, 1999 Date of Excursion Termination: August 2, 1999

Interior Shallow Zone Monitor Well 6MW21: Christensen Production Unit 6.

Date of Initial Excursion: October 8, 1999 Date of Excursion Termination: December 6, 1999

Monthly and quarterly excursion status reports are submitted to the WDEQ and NRC, respectively. Therefore, the status of each monitor well which remained on excursion status will not be repeated in this report.

3.2.2 Irigaray 5I7/USMT Test Site

Sampling of the 5I7/USMT site monitor wells is conducted on an annual basis during late spring, therefore, none was conducted during this report period.

3.2.3 Regional Groundwater Monitoring

Regional groundwater samples are collected on a quarterly basis from seven ranch wells at the Christensen Ranch Project and semi-annually from one ranch well at the Irigaray Project. The sample analysis data are given in Table 4. No trends or abnormal results were noted. Note that 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.

3.3 Radiological Effluent Monitoring Data

3.3.1 Radon Gas

Radon gas is monitored continuously at six environmental air sampling locations at or near the Irigaray Project and at four locations at or near the Christensen Ranch Project. The sampling locations are shown on the Environmental Monitoring Stations Location map, located in Appendix 4. Outdoor air radon detectors are exchanged and analyzed quarterly by Landauer, Inc., a NVLAP accredited company. The sample analyses data are given in Table 5. No abnormal results were found.

In addition to the environmental radon monitoring, radon release estimates are calculated for both projects during production and/or restoration operations. These estimates are based upon the release rates given in the Calculation Of Annual Radon Emissions tables, of the approved license application. Table 7.3(A)-3, Christensen Ranch, lists a production release rate of 1,471 Ci/year at a flow rate of 3,600 gpm (0.034 Ci/month/gpm), and a restoration release rate of 258 Ci/year at a flow rate of 500 gpm (0.043 Ci/month/gpm). Table 7.3(A)-7, Irigaray, lists a restoration release rate of 351 Ci/year at a flow rate of 500 gpm (0.058 Ci/month/gpm). Using these factors and the 6 month average flows listed in Section 2.2.1, the radon release to the environment during this report period is estimated as follows.

Irigaray Project - Restoration (206 average gpm)	71.7 Curies
Christensen Ranch Project - Production (1,841 average gpm)	375.6 Curies
Christensen Ranch Project - Restoration (201 average gpm)	51.9 Curies
Total (July - December)	499.2 Curies

3.3.2 Gamma Radiation

Gamma radiation is monitored continuously at five environmental air sampling locations surrounding the Irigaray Project and at four locations surrounding the Christensen Ranch Project. TLDs are exchanged and analyzed quarterly by Thermo Nutech, a NVLAP accredited company. The dosimeter analysis data are given in Table 6. No abnormal results were found.

3.3.3 Dryer Stack Emissions

The yellowcake dryer operated for one campaign during the reporting period, for approximately 35 days. A total of 173,101 pounds of yellowcake (as U3O8) were processed through the dryer.

Semi-annual isokinetic testing of the dryer stack for radiological and particulate emissions was conducted by Western Environmental, Inc., on December 2, 1999. 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	0.014 (5 % of limit)	---	0.30 lbs/hour
Unat (Total as U3O8)	0.0107	6.67E-10	---
Thorium-230 (Total)	---	9.01E-14	---
Radium-226 (Total)	---	1.53E-13	---
Lead-210 (Total)	---	2.73E-12	---

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

3.3.4 Environmental Air Sampling

Environmental air particulate sampling was conducted on a continuous basis at five of the Irigaray Project environmental air sampling locations. Filters were changed weekly, then composited for a quarterly analysis of uranium, Radium-226, Thorium-230 and Lead-210. The sample analysis data are given in Table 7A and 7B. All parameters were well below their effluent limits (<10%) given in Appendix B, Table 2, of 10 CFR Part 20. No trends or abnormal results were noted.

3.3.5 Soils and Vegetation

Soil and vegetation samples are collected on an annual basis during late spring, therefore, none was conducted during this report period.

4.0 CORRECTIVE ACTIONS/RECOMMENDATIONS

4.1 Wellfield Corrective Actions

Corrective actions for wellfields at the Irigaray and Christensen Ranch Projects consisted of selected over-recovery, to draw back pockets of lixiviant to the wellfield. Over-recovery is

accomplished by reducing injection flow and/or increasing production flow, and is concentrated near monitor wells which show increasing trends or are on excursion status. 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

There were no employee urinalysis which exceeded the 15 *u*g/l administrative level for uranium, specified in the Approved License Application.

6.0 RESTORATION PROGRESS: August 1999 - December 1999

6.1 Irigaray

Groundwater restoration activities at the Irigaray Site continued during this reporting period. A summary of the status of each restoration area is provided below. A map of the Irigaray restoration wellfields is provided in Appendix 4.

- Production Units 1 - 5: Restoration was completed in Units 1 through 3 in 1993. Restoration was completed in Units 4 and 5 in August, 1998. No further actions have been taken in these wellfields pending submittal of the final restoration package for Production Units 1 through 5. All of Units 1 through 5 were mined with ammonium bicarbonate lixiviant, and COGEMA feels it is best to present the restoration results of all Units 1 through 5 together.

- Production Units 6 - 7: Units 6 and 7 are in a standby mode until the reverse osmosis treatment phase of restoration begins. The reverse osmosis treatment phase of restoration is on hold due to limitations of water storage at Irigaray.

- Production Units 8 - 9: Reverse osmosis treatment continued in Units 8 and 9 throughout this reporting period. To date, 6.6 and 9.1 pore volume displacements, respectively, have occurred in Units 8 and 9 since the start of the reverse osmosis phase of restoration. Conductivity values have shown a steady and continuous decline since the start of the reverse osmosis phase of restoration in Units 8 and 9.

6.2 Christensen

Groundwater restoration activities at the Christensen site continued during this reporting period. A summary of the status of each restoration area is provided below. A map of the Christensen restoration wellfields is provided in Appendix 4.

- Mine Unit 3: Reverse osmosis treatment continued in module 3-1. To date, 11.2 pore volume displacements have occurred in module 3-1. Conductivity values have shown a continuous decline since the start of the reverse osmosis phase of restoration in module 3-1. The reverse osmosis phase of restoration will continue in modules 3-2, 3-3, and 3-4 on a module per module basis dependent on the capability of disposing of water in the deep disposal wells and

through pond evaporation.

- Mine Unit 2: A limited groundwater sweep continues in Mine Unit 2 at the time of this report. The reverse osmosis phase of restoration will follow in Unit 2 upon the completion of restoration efforts in Unit 3.

- Mine Unit 4: No restoration activities are currently being conducted in Mine Unit 4.

TABLES

TABLE 1

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

Date Collected:06-Aug-99
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)	4.51 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	116	1	N/A	N/A	N/A
Cl	135	1	N/A	N/A	N/A
TDS	7360	2	N/A	N/A	N/A
Specific Conductivity	8300	1	N/A	N/A	N/A
SO4	4680	1	N/A	N/A	N/A
pH	8.03	0.01	N/A	N/A	N/A
As	0.004	0.001	N/A	N/A	N/A
Se	0.032	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 1 (contd)

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

Date Collected:06-Aug-99
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)	1.24 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)	<1.0E-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	83	1	N/A	N/A	N/A
Cl	84.5	1	N/A	N/A	N/A
TDS	4910	2	N/A	N/A	N/A
Specific Conductivity	5670	1	N/A	N/A	N/A
SO4	2960	1	N/A	N/A	N/A
pH	8.00	0.01	N/A	N/A	N/A
As	0.004	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 1 (contd)

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

Date Collected:06-Aug-99
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)	1.79 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	284	1	N/A	N/A	N/A
Cl	45.3	1	N/A	N/A	N/A
TDS	3950	2	N/A	N/A	N/A
Specific Conductivity	4510	1	N/A	N/A	N/A
SO4	2290	1	N/A	N/A	N/A
pH	8.08	0.01	N/A	N/A	N/A
As	0.002	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 1 (contd)

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

Date Collected:06-Aug-99
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)	4.3 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	90	1	N/A	N/A	N/A
Cl	222	1	N/A	N/A	N/A
TDS	11800	2	N/A	N/A	N/A
Specific Conductivity	12200	1	N/A	N/A	N/A
SO4	6940	1	N/A	N/A	N/A
pH	7.87	0.01	N/A	N/A	N/A
As	0.006	0.001	N/A	N/A	N/A
Se	0.006	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 1 (contd)

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

Date Collected:06-Aug-99
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)	9.8 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	163	1	N/A	N/A	N/A
Cl	190	1	N/A	N/A	N/A
TDS	8880	2	N/A	N/A	N/A
Specific Conductivity	10100	1	N/A	N/A	N/A
SO4	5450	1	N/A	N/A	N/A
pH	8.20	0.01	N/A	N/A	N/A
As	0.003	0.001	N/A	N/A	N/A
Se	0.014	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 1 (contd)

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

Date Collected:06-Aug-99
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)	2.04 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	249	1	N/A	N/A	N/A
Cl	20.9	1	N/A	N/A	N/A
TDS	2580	2	N/A	N/A	N/A
Specific Conductivity	3150	1	N/A	N/A	N/A
SO4	1400	1	N/A	N/A	N/A
pH	8.11	0.01	N/A	N/A	N/A
As	0.003	0.001	N/A	N/A	N/A
Se	<0.001	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 1 (contd)

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

Date Collected:08-Oct-99
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)	2.4 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)	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)	<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	173	1	N/A	N/A	N/A
Cl	84	1	N/A	N/A	N/A
TDS	5080	2	N/A	N/A	N/A
Specific Conductivity	5370	1	N/A	N/A	N/A
SO4	3210	1	N/A	N/A	N/A
pH	7.85	0.01	N/A	N/A	N/A
As	<0.001	0.001	N/A	N/A	N/A
Se	<0.001	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 1 (contd)

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

Date Collected:08-Oct-99
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)	1.2 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	221	1	N/A	N/A	N/A
Cl	116.0	1	N/A	N/A	N/A
TDS	4920	2	N/A	N/A	N/A
Specific Conductivity	5460	1	N/A	N/A	N/A
SO4	3020	1	N/A	N/A	N/A
pH	8.12	0.01	N/A	N/A	N/A
As	0.002	0.001	N/A	N/A	N/A
Se	<0.001	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 1 (contd)

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

Date Collected:08-Oct-99
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)	2.1 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	338	1	N/A	N/A	N/A
Cl	44.0	1	N/A	N/A	N/A
TDS	3980	2	N/A	N/A	N/A
Specific Conductivity	4340	1	N/A	N/A	N/A
SO4	2500	1	N/A	N/A	N/A
pH	8.01	0.01	N/A	N/A	N/A
As	<0.001	0.001	N/A	N/A	N/A
Se	<0.001	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 1 (contd)

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

Date Collected:08-Oct-99
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)	1.2 E-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)	4.0 E-10	3.0 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	583	1	N/A	N/A	N/A
Cl	807.0	1	N/A	N/A	N/A
TDS	40000	2	N/A	N/A	N/A
Specific Conductivity	30000	1	N/A	N/A	N/A
SO4	26800	1	N/A	N/A	N/A
pH	8.46	0.01	N/A	N/A	N/A
As	0.009	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 1 (contd)

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

Date Collected:08-Oct-99
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)	1.6 E-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)	<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	360	1	N/A	N/A	N/A
Cl	395.0	1	N/A	N/A	N/A
TDS	15500	2	N/A	N/A	N/A
Specific Conductivity	14000	1	N/A	N/A	N/A
SO4	10100	1	N/A	N/A	N/A
pH	7.99	0.01	N/A	N/A	N/A
As	0.001	0.001	N/A	N/A	N/A
Se	0.004	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 1 (contd)

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

Date Collected:08-Oct-99
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)	1.2 E-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)	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)	2.1 E-08	4.4 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	709	1	N/A	N/A	N/A
Cl	16.0	1	N/A	N/A	N/A
TDS	5240	2	N/A	N/A	N/A
Specific Conductivity	5640	1	N/A	N/A	N/A
SO4	3030	1	N/A	N/A	N/A
pH	7.89	0.01	N/A	N/A	N/A
As	0.004	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 2A

COGEMA Mining, Inc.
DISCHARGE POINT 001
Irigaray

PARAMETER	7-99	8-99	9-99	10-99	11-99	12-99	PERMIT REQUIREMENT AVG.	PERMIT REQUIREMENT MAX.
Flow (MGD) Average	0.092	0.069	0.084	0.089	0.111	0.127	N/A	N/A
Total Uranium (U) (mg/l)	0.1170	0.1420	0.0403	0.2190	0.0795	0.0559	2	4
Dissolved Radium-226 (pCi/l) Average	1.6	1.8	2.0	<0.2	1.3	2.5	3	10
Total Suspended Solids (mg/l) (weekly avg.)	2.7	2.0	<1.0	<1.0	<1.0	<1.0	20	30
Total Dissolved Solids (mg/l)	1730	1500	622	1090	450	641	N/A	5000
QUARTERLY ANALYSIS	July 1999			October 1999				
Uranium Total (uCi/ml)	7.9 E-08			1.48 E-07			3E-07*	
Radium 226 Total (uCi/ml)	1.6 E-09			2.0 E-10			6E-08*	
Thorium-230 Total (uCi/ml)	2.3 E-09			<2.0 E-09			1E-07*	
Pb-210 Total (uCi/ml)	<1.0 E-09			<1.0 E-09			1E-08*	
Po-210 Total (uCi/ml)	<1.0 E-09			<1.0 E-09			4E-08*	
Zinc Total (mg/l)	<0.01			<0.01			0.5	1.0
pH (units)	7.00			6.20			6.00	9.00
Selenium (mg/l)	0.017			0.007			N/A	0.05

N.D. - No Discharge
N/A - Not Available
* 10 CFR 20, Appendix B, Table II, Column II Effluent Limitations

TABLE 2B

COGEMA Mining, Inc.
DISCHARGE POINT 002
Christensen

PARAMETER	07-99	08-99	09-99	10-99	11-99	12-99	PERMIT REQUIREMENT AVG.	PERMIT REQUIREMENT MAX.
Flow (MGD) Average	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N/A	N/A
Total Uranium (U) (mg/l)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	2	4
Dissolved Radium-226 (pCi/l) Average	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	3	10
Total Suspended Solids (mg/l) (weekly avg.)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	20	30
Total Dissolved Solids (mg/l)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N/A	5000
QUARTERLY ANALYSIS	January 1999			April 1999				
Uranium Total (uCi/ml)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	3E-07*	
Radium 226 Total (uCi/ml)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	6E-08*	
Thorium-230 Total (uCi/ml)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1E-07*	
Pb-210 Total (uCi/ml)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1E-08*	
Po-210 Total (uCi/ml)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	4E-08*	
Zinc Total (mg/l)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.5	1.0
pH (units)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	6.00	9.00
Selenium (mg/l)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	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 1999, 07-30-99
SEMI-ANNUAL REPORT, 2000

IRIGARAY - mg/l

	IR-1	IR-2A	IR-2B	IR-3	IR-A	IR-B
Cl	21,600	95,600	69,300	124,000	128,000	104,000
NH4as N	1.81	87.4	20.2	9.58	158	107
NO3 as N	0.11	0.28	0.17	0.88	2.93	2.82
pH	8.85	8.40	8.70	7.61	7.39	7.68
SO4	12,900	19,500	14,000	18,800	13,000	13,000
Conductivity	86,600	187,000	161,000	212,000	212,000	188,000
U	80.7	119	129	4.8	1.51	14.8
TDS	72,500	182,000	143,000	231,000	215,000	176,000
Zinc	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ra 226 (pCi/l)	26.3 +/- 1.8	20.8 +/- 1.2	26.3 +/- 1.8	16.0 +/- 0.6	193 +/- 4.6	92.0 +/- 3.1

IRIGARAY - mg/l

	IR-C	IR-D	IR-E	IR-RA	IR-RB
Cl	142,000	118,000	103,000	1,690	4,470
NH4 as N	429	75.7	39.1	0.44	1.29
NO3 as N	22.6	0.50	2.14	0.19	<0.010
pH	6.16	7.63	6.07	8.65	8.97
SO4	15,000	12,700	6,930	3,400	4,430
Conductivity	221,000	207,000	195,000	19,300	28,600
U	0.240	6.71	0.0160	27.4	80.5
TDS	286,000	202,000	195,000	14,900	22,000
Zinc	<0.01	<0.01	<0.01	<0.01	<0.01
Ra 226 (pCi/l)	320 +/- 6.3	198 +/- 3.9	1,010 +/- 19.8	5.7 +/- 0.4	10.9 +/- 1.1

CHRISTENSEN - mg/l

	CR-1	CR-2	CR-3	CR-4	CR-P1
Cl	604	500	322	185	18.0
NH4 as N	0.12	0.54	0.11	0.12	<0.05
NO3 as N	<0.10	<0.01	<0.01	0.16	<0.10
pH	8.59	8.33	9.11	8.16	8.51
SO4	852	1,650	1,760	1,280	30.6
Conductivity	5,120	9,170	8,860	7,340	1,500
U	4.5	1.7	1.33	0.700	0.0300
TDS	3,450	6,710	6,580	5,480	933
Zinc	<0.01	<0.01	<0.01	<0.01	<0.01
Ra 226 (pCi/l)	136 +/- 3.0	87.8 +/- 2.3	3.8 +/- 0.3	208 +/- 4.1	< 0.2

Table 3 (Cont.)

QUARTERLY WASTE POND ANALYSIS
FOURTH QUARTER 1999, 10-7-99
SEMI-ANNUAL REPORT, 2000

IRIGARAY - mg/l

	IR-1	IR-2A	IR-2B	IR-3	IR-A	IR-B
Cl	94,800	172,000	156,000	124,000	165,000	83,400
NH4 as N	4.88	106	21.3	1.43	164	43.8
NO3 as N	0.36	0.39	0.37	<0.10	0.95	1.10
pH	8.51	7.99	8.29	8.46	7.19	8.35
SO4	16,200	17,700	15,500	15,800	17,900	14,300
Conductivity	120,000	129,000	131,000	123,000	127,000	114,000
U	554	337	265	191	113	70.2
TDS	195,000	320,000	275,000	233,000	299,300	159,000
Zinc	0.07	0.09	0.07	0.09	0.42	0.09
Ra 226 (pCi/l)	12.9 +/- 1.6	42.7 +/- 3.2	20.1 +/- 2.1	14.6 +/- 1.2	300.2 +/- 10.8	29.9 +/- 2.4

IRIGARAY - mg/l

	IR-C	IR-D	IR-E	IR-RA	IR-RB
Cl	149,000	145,000	142,000	2,880	4,040
NH4 as N	74.0	152	50.0	0.12	0.15
NO3 as N	0.53	4.48	2.48	<0.10	<0.10
pH	7.88	7.01	6.40	8.69	8.79
SO4	17,700	9,190	12,300	4,240	4,680
Conductivity	126,000	173,000	134,000	20,000	22,700
U	21.0	6.0	39.3	52.7	77.4
TDS	257,000	144,000	241,000	16,800	19,300
Zinc	0.30	<0.01	1.71	0.06	0.07
Ra 226 (pCi/l)	197 +/- 7.1	529 +/- 6.6	1960 +/- 70.2	6.2 +/-0.6	6.3 +/- 0.7

CHRISTENSEN - mg/l

	CR-1	CR-2	CR-3	CR-4	CR-P1
Cl	632	395	140	207	10.8
NH4 as N	0.06	0.07	<0.05	<0.05	<0.05
NO3 as N	<0.10	<0.10	<0.10	<0.10	<0.10
pH	8.36	8.70	7.94	8.36	8.34
SO4	941	5,940	959	972	28.4
Conductivity	4,910	5,940	4,890	5,250	1,460
U	8.63	2.12	0.36	0.41	0.004
TDS	3,310	4,480	3,610	3,830	866
Zinc	0.03	0.02	0.01	0.01	<0.01
Ra 226 (pCi/l)	104 +/- 4.1	42.9 +/- 2.6	61.6 +/- 3.1	76.2 +/- 3.5	1.0 +/- 0.3

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Date Collected:06-Aug-99
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)	1.77 E-08	N/A (a)	2.0 E-10
Th-230 (Total)	<2.0 E-10		2.0 E-10
Ra-226 (Total)	1.0 E-09	3.0 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:06-Aug-99
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)	7.0 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:06-Aug-99
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)	5.6 E-09	1.1 E-09	1.0 E-09

Date Collected:06-Aug-99
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)	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)	<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:06-Aug-99
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)	6.0 E-10	N/A (a)	2.0 E-10
Th-230 (Total)	<2.0 E-10		2.0 E-10
Ra-226 (Total)	8.0 E-10	3.0 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:06-Aug-99
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)	1.2 E-09	N/A (a)	2.0 E-10
Th-230 (Total)	<2.0 E-10		2.0 E-10
Ra-226 (Total)	1.5 E-09	4.0 E-10	2.0 E-10
Pb-210 (Total)	<1.0 E-09		1.0 E-09
Po-210 (Total)	3.5 E-09	1.3 E-09	1.0 E-09

Date Collected:06-Aug-99
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)	<1.0 E-09		1.0 E-09

Date Collected:06-Aug-99
Sample Location: IR Willow #2 (Semi-Annual)
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

Chemical Parameters	Concentration (mg/l)	Detection Limit (mg/l)
Chloride	7.0	1.0
Conductivity	526.0	1.0

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Date Collected: 08-Oct-99
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)	1.6 E-08	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: 08-Oct-99
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)	7.0 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: 08-Oct-99
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: 08-Oct-99
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)	7.0 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: 08-Oct-99
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)	3.1 E-09		2.0 E-10
Pb-210 (Total)	<1.0 E-09		1.0 E-09
Po-210 (Total)	<1.0 E-09	4.0 E-10	1.0 E-09

Date Collected: 08-Oct-99
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)	6.0 E-10	N/A (a)	2.0 E-10
Th-230 (Total)	<2.0 E-10		2.0 E-10
Ra-226 (Total)	1.5 E-09		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: 08-Oct-99
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	(uCi/ml)	(uCi/ml)	(uCi/ml)
U (Total)		N/A (a)	2.0 E-10
Th-230 (Total)			2.0 E-10
Ra-226 (Total)			2.0 E-10
Pb-210 (Total)			1.0 E-09
Po-210 (Total)			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 - 1999

TABLE 5

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
IRIGARAY PROJECT						
IR-1 (Downwind of Restricted Area)	1.1 E-9 +/- 0.1	0.9 E-9 +/- 0.2	1.3 E-9 +/- 0.3	2.0 E-9 +/- 0.3	1.32 E-9	13.2 %
IR-3 (Upwind of Restricted Area)	1.7 E-9 +/- 0.2	0.9 E-9 +/- 0.2	2.0 E-9 +/- 0.3	1.4 E-9 +/- 0.3	1.50 E-9	15.0 %
IR-4 (North Road)	1.5 E-9 +/- 0.1	0.9 E-9 +/- 0.2	1.7 E-9 +/- 0.2	2.3 E-9 +/- 0.2	1.60 E-9	16.0 %
IR-5 (Irigaray Ranch - nearest resident)	0 .5 E-9 +/- 0.1	< 0 .4 E-9	0 .9 E-9 +/- 0.3	1.3 E-9 +/- 0.2	0 .78 E-9	0.08 %
IR-6 (Ridge Road S.E. - background)	1.1 E-9 +/- 0.1	1.2 E-9 +/- 0.2	1.4 E-9 +/- 0.3	2.2 E-9 +/- 0.2	1.48 E-9	14.8 %
IR-13 (Employee House Trailer)	1.1 E-9 +/- 0.1	0.6 E-9 +/- 0.3	1.1 E-9 +/- 0.3	1.7 E-9 +/- 0.3	1.12 E-9	11.2 %
CHRISTENSEN PROJECT						
AS-1 (Table Mountain - Background))	1.0 E-9 +/- 0.1	0.9 E-9 +/- 0.2	1.0 E-9 +/- 0.2	1.2 E-9 +/- 0.3	1.02 E-9	10.2 %
AS-5A (CR Plant Upwind S.E.)	1.1 E-9 +/- 0.1	1.1 E-9 +/- 0.2	1.1 E-9 +/- 0.2	2.0 E-9 +/- 0.3	1.32 E-9	13.2 %
AS-5B (CR Plant Downwind N.W.)	1.1 E-9 +/- 0.1	0.4 E-9 +/- 0.3	1.2 E-9 +/- 0.2	1.9 E-9 +/- 0.3	1.15 E-9	11.5 %
AS-6 (Christensen Ranch-Nearest Resident)	* NA	0.9 E-9 +/- 0.2	1.3 E-9 +/- 0.2	2.5 E-9 +/- 0.2	1.57 E-9	15.7 %
Quarterly average	1.02 E-9	0.82 E-9	1.30 E-9	1.85 E-9		

* sample voided since the detector had fallen on the ground

LLD = 0.3 pCi/l

COGEMA Mining, Inc.
Environmental Gamma Monitoring - 1999

TABLE 6

Location	1st Quarter mrem/quarter	2nd Quarter mrem/quarter	3rd Quarter mrem/quarter	4th Quarter mrem/quarter	Location Average mrem/quarter
IRIGARAY PROJECT					
IR-1 (Downwind of Restricted Area)	61.4 + / - 28.8	39.2 + / - 8.4	47.8 + / - 12.4	43.4 + / - 5.9	48.0
IR-3 (Upwind of Restricted Area)	89.0 + / - 13.3	54.0 + / - 9.9	58.0 + / - 17.9	47.4 + / - 24.6	62.1
IR-4 (North Road)	63.2 + / - 41.2	35.8 + / - 10.8	43.4 + / - 7.0	37.2 + / - 18.4	44.9
IR-5 (Irigaray Ranch - nearest resident)	49.6 + / - 20.2	32.0 + / - 3.2	39.4 + / - 4.4	36.0 + / - 4.7	39.2
IR-6 (Ridge Road S.E. - Background)	60.2 + / - 13.8	32.8 + / - 6.2	45.2 + / - 10.8	38.0 + / - 7.1	44.0
IR-13 (Employee House Trailer)	64.0 + / - 28.5	41.2 + / - 4.6	49.8 + / - 8.0	38.6 + / - 11.4	48.4
CHRISTENSEN PROJECT					
AS-1 (Table Mountain - Background)	58.2 + / - 26.1	34.2 + / - 3.8	43.4 + / - 5.4	*not available	45.3
AS-5A (CR Plant Upwind S.E.)	70.2 + / - 43.0	38.8 + / - 7.7	49.4 + / - 10.0	43.4 + / - 10.1	50.4
AS-5B (CR Plant Downwind N.W.)	79.2 + / - 29.2	37.6 + / - 5.0	48.6 + / - 8.3	40.2 + / - 5.0	51.4
AS-6 (Christensen Ranch - nearest resid.)	72.6 + / - 31.2	37.4 + / - 4.8	49.4 + / - 15.6	44.2 + / - 6.4	50.9
Quarterly average	66.8	38.3	47.4	40.9	

COGEMA Mining, Inc.
Wyoming Operations
Quarterly Air Samples
Irigaray Project, Third Quarter of 1999
Sample Type: Composite of continuous weekly air sample filters

TABLE 7A

Irigaray Project 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	1.90 E-15 < 0.1 %	< 1.00 E-16 < 0.33 %	< 1.00 E-16 < 0.1 %	1.33 E-14 +/- .18 2.2 %
IR-3 (Upwind of Restricted Area) % of Pt. 20, App. B, Effluent Limit	2.40 E-15 < 0.1 %	< 1.00 E-16 < 0.33 %	< 1.00 E-16 < 0.1 %	1.38 E-14 +/- .18 2.3 %
IR-5 (Irigaray Ranch - nearest resident) % of Pt. 20, App. B, Effluent Limit	2.85 E-16 < 0.1 %	< 1.00 E-16 < 0.33 %	< 1.00 E-16 < 0.1 %	1.65 E-14 +/- .18 2.8 %
IR-6 (Background) % 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 %	1.39 E-14 +/- .20 2.3 %
IR-13 (Employee House Trailer) % of Pt. 20, App. B, Effluent Limit	1.00 E-15 < 0.1 %	< 1.00 E-16 < 0.33 %	< 1.00 E-16 < 0.1 %	1.40 E-14 +/- .18 2.3 %

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)

LOTUS:\S-TABLES\AIR-7a

COGEMA Mining, Inc.
Wyoming Operations
Quarterly Air Samples
Irigaray Project, Fourth Quarter of 1999
Sample Type: Composite of continuous weekly air sample filters

TABLE 7B

Irigaray Project Location Fourth quarter (Oct., Nov., 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	1.18 E-15 < 0.1 %	< 1.00 E-16 < 0.33 %	< 1.00 E-16 < 0.01 %	6.77 E-15 +/- .8 1.1 %
IR-3 (Upwind of Restricted Area) % of Pt. 20, App. B, Effluent Limit	1.59 E-15 < 0.1 %	1.27 E-16 +/- 1.1 0.4 %	< 1.00 E-16 < 0.01 %	1.14 E-14 +/- .1 1.9 %
IR-5 (Irigaray Ranch - nearest resident) % of Pt. 20, App. B, Effluent Limit	3.20 E-16 < 0.1 %	1.09 E-16 +/- 0.9 0.4 %	< 1.00 E-16 < 0.01 %	9.70 E-15 +/- .9 1.6 %
IR-6 (Background) % of Pt. 20, App. B, Effluent Limit	6.71 E-16 < 0.1 %	1.08 E-16 +/- 0.9 0.4 %	< 1.00 E-16 < 0.01 %	9.73 E-15 +/- .9 1.6 %
IR-13 (Employee House Trailer) % of Pt. 20, App. B, Effluent Limit	8.79 E-16 < 0.1 %	< 1.00 E-16 < 0.33 %	< 1.00 E-16 < 0.01 %	1.06 E-14 +/- .1 1.8 %

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)

LOTUS:\S-TABLES\AIR-7b

APPENDIX 1

Mechanical Integrity Test Results

IRIGARAY UNIT 6
INTEGRITY TESTING SUMMARY - 1999

Hole #	Date Tested	Casing Type	Bottom Casing Depth	Lower Packer Depth	Initial Pressure	Final Pressure	Pressure Loss	% Loss	Pass	Fail
HP19B	01-Jun-99	YELLOWMINE	193	180	144	140	4	3	X	
HI191	01-Jun-99	PVC	208	200	144	139	5	4	X	
HI31	01-Jun-99	PVC	307	300	144	141	3	2	X	
HP22	02-Jun-99	PVC	265	250	144	139	5	4	X	
HI50	02-Jun-99	PVC	196	190	144	138	6	4	X	
HP29B	02-Jun-99	YELLOWMINE	211	200	144	140	4	3	X	
HI53	02-Jun-99	PVC	223	210	144	140	4	3	X	
HI54B	02-Jun-99	YELLOWMINE	196	190	144	138	6	4	X	
HP24	02-Jun-99	PVC	200	190	144	141	3	2	X	
HI41	02-Jun-99	PVC	204	190	144	137	7	5	X	
HI42B	02-Jun-99	YELLOWMINE	199	190	144	140	4	3	X	
HP23	07-Jun-99	PVC	225	210	144	139	5	4	X	
HI39B	07-Jun-99	PVC	208	200	144	137	7	5	X	
HP17B	07-Jun-99	YELLOWMINE	210	200	144	138	6	4	X	
HI26	08-Jun-99	PVC	196	190	144	142	2	1	X	
HI27	08-Jun-99	PVC	197	190	144	138	6	4	X	
HP13B	08-Jun-99	YELLOWMINE	194	180	144	138	6	4	X	
HI15	08-Jun-99	PVC	247	240	144	138	6	4	X	
HI14B	09-Jun-99	YELLOWMINE	202	190	144	139	5	4	X	
HP6	09-Jun-99	PVC	196	190	144	140	4	3	X	
HI202	09-Jun-99	FIBERGLASS	226	220	144	137	7	5	X	
HP11	09-Jun-99	PVC	222	210	144	139	5	4	X	
HI207	11-Jun-99	FIBERGLASS	298	290	144	141	3	2	X	
HI22	11-Jun-99	PVC	212	200	144	140	4	3	X	
HP15	11-Jun-99	PVC	204	190	144	139	5	4	X	
HP9	11-Jun-99	PVC	197	190	144	138	6	4	X	
HI198	11-Jun-99	PVC	203	190	144	142	2	1	X	
HI7	11-Jun-99	PVC	216	210	144	137	7	5	X	
HP4	14-Jun-99	PVC	244	230	144	142	2	1	X	
HI11	14-Jun-99	PVC	188	180	144	140	4	3	X	
HI3B	14-Jun-99	YELLOWMINE	256	240	144	140	4	3	X	
HP2	14-Jun-99	PVC	169	160	144	139	5	4	X	
HP87	14-Jun-99	PVC	194	180	144	141	3	2	X	
HI185	14-Jun-99	PVC	187	180	144	142	2	1	X	
HP82	16-Jun-99	PVC	188	180	144	138	6	4	X	
HI102B	16-Jun-99	YELLOWMINE	160	150	144	140	4	3	X	
HI89	16-Jun-99	PVC	194	180	144	137	7	5	X	
HI205	17-Jun-99	FIBERGLASS	189	180	144	137	7	5	X	
HP39B	17-Jun-99	YELLOWMINE	191	180	144	141	3	2	X	
HI192	17-Jun-99	PVC	258	250	144	140	4	3	X	
HP45	17-Jun-99	PVC	177	170	144	138	6	4	X	
HI88	17-Jun-99	PVC	189	180	144	139	5	4	X	
HI94	21-Jun-99	PVC	285	270	144	100	44	30		X
HI92	21-Jun-99	PVC	300	290	144	140	4	3	X	
HI91	21-Jun-99	PVC	258	250	144	136	8	6	X	
HI79	21-Jun-99	PVC	292	280	144	137	7	5	X	
HI109	21-Jun-99	PVC	178	170	144	138	6	4	X	
HI151	22-Jun-99	PVC	305	290	144	140	4	3	X	
HP34	22-Jun-99	PVC	252	240	144	139	5	4	X	
HP41	22-Jun-99	PVC	286	270	144	137	7	5	X	
HI72	22-Jun-99	PVC	198	190	144	140	4	3	X	
HP32	22-Jun-99	PVC	196	190	144	139	5	4	X	
HI60	22-Jun-99	PVC	309	290	144	137	7	5	X	
HI56	23-Jun-99	PVC	205	190	144	137	7	5	X	
HI55	23-Jun-99	PVC	198	190	144	138	6	4	X	
HI68	23-Jun-99	PVC	221	210	144	139	5	4	X	
HI71	23-Jun-99	PVC	228	220	144	100	44	30		X
HP25	29-Jun-99	PVC	200	190	144	139	5	4	X	
HI197	29-Jun-99	PVC	199	190	144	138	6	4	X	
HP37	29-Jun-99	PVC	196	190	144	138	6	4	X	
HP80B	29-Jun-99	YELLOWMINE	310	300	144	140	4	3	X	
HI32B	29-Jun-99	YELLOWMINE	305	290	144	140	4	3	X	

IRIGARAY UNIT 6
INTEGRITY TESTING SUMMARY - 1999

Hole #	Date Tested	Casing Type	Bottom Casing Depth	Lower Packer Depth	Initial Pressure	Final Pressure	Pressure Loss	% Loss	Pass	Fail
HP20	29-Jun-99	PVC	300	290	144	138	6	4	X	
HP18B	30-Jun-99	YELLOWMINE	198	190	144	137	7	5	X	
HI28	30-Jun-99	PVC	202	190	144	136	8	6	X	
HI29B	30-Jun-99	YELLOWMINE	194	180	144	100	44	30		X
HP14B	30-Jun-99	YELLOWMINE	242	230	144	140	4	3	X	
HI209	06-Jul-99	FIBERGLASS	252	240	144	140	4	3	X	
HI161	06-Jul-99	PVC	247	240	144	139	5	4	X	
HP96	06-Jul-99	FIBERGLASS	245	230	144	138	6	4	X	
HI40	06-Jul-99	PVC	218	210	144	143	1	1	X	
HI51	07-Jul-99	PVC	268	260	144	138	6	4	X	
HI24	07-Jul-99	PVC	198	190	144	140	4	3	X	
HI208	07-Jul-99	FIBERGLASS	229	220	144	141	3	2	X	
HP12	07-Jul-99	PVC	215	210	144	138	6	4	X	
HI9B	08-Jul-99	YELLOWMINE	221	210	144	137	7	5	X	
HI8	08-Jul-99	PVC	292	280	144	138	5	4	X	
HP10	08-Jul-99	PVC	291	280	144	138	6	4	X	
HI5	09-Jul-99	PVC	206	200	144	142	2	1	X	
HI156	09-Jul-99	PVC	167	160	144	138	6	4	X	
HI20	09-Jul-99	PVC	213	200	144	139	5	4	X	
HI21	09-Jul-99	PVC	263	250	144	141	3	2	X	
HP3	09-Jul-99	PVC	208	200	144	100	44	30		X
HI47B	12-Jul-99	YELLOWMINE	254	240	144	135	9	6	X	
HI199B	12-Jul-99	YELLOWMINE	207	200	144	137	7	5	X	
HI13B	13-Jul-99	YELLOWMINE	178	170	144	138	6	4	X	
HI12	13-Jul-99	PVC	184	170	144	139	5	4	X	
HI35B	13-Jul-99	YELLOWMINE	199	190	144	138	6	4	X	
HP21B	13-Jul-99	YELLOWMINE	161	150	144	137	7	5	X	
HI130	14-Jul-99	PVC	214	200	144	139	5	4	X	
HP57	14-Jul-99	PVC	283	270	144	136	8	6	X	
HI115	15-Jul-99	PVC	282	270	144	137	7	5	X	
HI132	16-Jul-99	PVC	284	270	144	140	4	3	X	
HI135	16-Jul-99	PVC	244	230	144	141	3	2	X	
HP95B	16-Jul-99	YELLOWMINE	161	150	144	137	7	5	X	
HI182	16-Jul-99	PVC	190	180	144	143	1	1	X	
HI181	16-Jul-99	PVC	204	190	144	139	5	4	X	
HI184	16-Jul-99	PVC	186	180	144	142	2	1	X	
HP85	19-Jul-99	PVC	181	170	144	137	5	4	X	
HI136	19-Jul-99	PVC	180	170	144	138	6	4	X	
HI81	19-Jul-99	PVC	164	150	144	141	3	2	X	
HI52	19-Jul-99	PVC	220	210	144	140	4	3	X	

IRIGARAY UNIT 7
INTEGRITY TESTING SUMMARY - 1999

Hole #	Date Tested	Casing Type	Bottom Casing Depth	Lower Packer Depth	Initial Pressure	Final Pressure	Pressure Loss	% Loss	Pass	Fail
T44	01-Jun-99	PVC	199	190	144	137	7	5	X	

IRIGARAY UNIT 9
INTEGRITY TESTING SUMMARY - 1999

Hole #	Date Tested	Casing Type	Bottom Casing Depth	Lower Packer Depth	Initial Pressure	Final Pressure	Pressure Loss	% Loss	Pass	Fail
LP10	01-Jun-99	FIBERGLASS	237	220	144	140	4	3	X	
LI125	22-Sep-99	FIBERGLASS	244	230	144	136	8	6	X	

CHRISTENSEN UNIT 3
INTEGRITY TESTING SUMMARY - 1999

Hole #	Date Tested	Casing Type	Bottom Casing Depth	Lower Packer Depth	Initial Pressure	Final Pressure	Pressure Loss	% Loss	Pass	Fail
3L29-3	08-Sep-99	YELLOWMINE	276	260	168	166	2	1	X	
3L31-1	08-Sep-99	YELLOWMINE	273	260	168	128	40	24		X
3L31-2	08-Sep-99	YELLOWMINE	239	220	168	162	6	4	X	
3K27-2	09-Sep-99	YELLOWMINE	250	240	168	166	2	1	X	
3L27-1	09-Sep-99	YELLOWMINE	237	225	168	164	4	2	X	
3M29-1	09-Sep-99	YELLOWMNE	229	215	168	166	2	1	X	
3K28-2	14-Sep-99	YELLOWMINE	279	265	168	162	6	4	X	
3L28-1	14-Sep-99	YELLOWMINE	233	220	168	162	6	4	X	
3K25-1	16-Sep-99	YELLOWMINE	278	265	168	164	4	2	X	
3K25-2	16-Sep-99	YELLOWMINE	237	225	168	164	4	2	X	
3J26-2	20-Sep-99	YELLOWMINE	256	245	168	148	20	12		X
3J23-1	21-Sep-99	YELLOWMINE	260	250	168	164	4	2	X	
3J27-1	21-Sep-99	YELLOWMINE	282	270	168	168	0	0	X	
3J29-1	21-Sep-99	YELLOWMINE	301	290	168	162	6	4	X	
3J30-1	21-Sep-99	YELLOWMINE	247	235	168	164	4	2	X	
3J30-2	22-Sep-99	YELLOWMINE	248	235	168	162	6	4	X	
3K29-3	22-Sep-99	YELLOWMINE	280	270	168	144	24	14		X
3K31-3	22-Sep-99	YELLOWMINE	257	245	168	160	8	5	X	
3K29-1	23-Sep-99	YELLOWMINE	243	230	168	0	168	100		X
3J31-1	30-Sep-99	YELLOWMINE	289	220	168	162	6	4	X	
3J29-2	03-Oct-99	YELLOWMINE	248	238	168	160	8	5	X	
3K33-1	04-Oct-99	YELLOWMINE	304	220	168	162	6	4	X	
3D22-1	06-Oct-99	YELLOWMINE	276	265	168	165	3	2	X	
3E19-1	06-Oct-99	YELLOWMINE	250	240	168	162	6	4	X	
3E21-1	06-Oct-99	YELLOWMINE	275	265	168	156	12	7	X	
3E13-1	07-Oct-99	YELLOWMINE	277	265	168	164	4	2	X	
3E15-1	07-Oct-99	YELLOWMINE	270	260	168	164	4	2	X	
3E17-1	07-Oct-99	YELLOWMINE	257	245	168	164	4	2	X	
3E7-2	11-Oct-99	YELLOWMINE	286	275	168	164	4	2	X	
3F8-1	11-Oct-99	YELLOWMINE	284	270	168	164	4	2	X	
3E11-2	11-Oct-99	YELLOWMINE	284	270	168	168	0	0	X	
3F15-2	12-Oct-99	YELLOWMINE	278	265	168	168	0	0	X	
3G16-1	12-Oct-99	YELLOWMINE	255	245	168	160	8	5	X	
3H17-1	12-Oct-99	YELLOWMINE	256	210	168	164	4	2	X	
3D10-1	13-Oct-99	YELLOWMINE	285	275	168	166	2	1	X	
3D17-1	13-Oct-99	YELLOWMINE	255	245	168	168	0	0	X	
3D20-2	13-Oct-99	YELLOWMINE	248	235	168	162	6	4	X	
3D18-2	18-Oct-99	YELLOWMINE	251	240	168	162	6	4	X	
3D19-1	19-Oct-99	YELLOWMINE	276	265	168	162	6	4	X	
3N26-2	02-Nov-99	YELLOWMINE	247	235	168	152	16	10	X	
3A12-3	03-Nov-99	YELLOWMINE	288	275	168	162	6	4	X	
3B12-1	03-Nov-99	YELLOWMINE	274	260	168	162	6	4	X	
3B11-1	04-Nov-99	YELLOWMINE	291	280	168	160	8	5	X	
3B13-2	04-Nov-99	YELLOWMINE	285	275	168	162	6	4	X	
3B14-1	04-Nov-99	YELLOWMINE	273	260	168	162	6	4	X	
3B16-2	04-Nov-99	YELLOWMINE	280	270	168	158	10	6	X	
3B20-1	08-Nov-99	YELLOWMINE	274	260	168	162	6	4	X	
3C18-2	08-Nov-99	YELLOWMINE	280	270	168	162	6	4	X	
3C21-1	08-Nov-99	YELLOWMINE	291	280	168	162	6	4	X	
3D15-3	08-Nov-99	YELLOWMINE	265	255	168	160	8	5	X	
3D11-1	09-Nov-99	YELLOWMINE	295	285	168	160	8	5	X	
3D12-2	09-Nov-99	YELLOWMINE	276	265	168	160	8	5	X	
3D14-1	09-Nov-99	YELLOWMINE	278	265	168	160	8	5	X	
3C15-2	10-Nov-99	YELLOWMINE	277	267	168	162	6	4	X	
3C17-2	10-Nov-99	YELLOWMINE	273	260	168	162	6	4	X	
3D13-1	10-Nov-99	YELLOWMINE	272	260	168	160	8	5	X	
3F13-1	10-Nov-99	YELLOWMINE	277	265	168	162	6	4	X	
3F10-1	11-Nov-99	YELLOWMINE	283	270	168	162	6	4	X	
3G15-1	11-Nov-99	YELLOWMINE	262	250	168	160	8	5	X	
3E10-1	15-Nov-99	YELLOWMINE	287	275	168	162	6	4	X	
3F9-1	15-Nov-99	YELLOWMINE	298	285	168	0	168	100		X
3E6-2	16-Nov-99	YELLOWMINE	287	210	168	164	4	2	X	

CHRISTENSEN UNIT 3
INTEGRITY TESTING SUMMARY - 1999

Hole #	Date Tested	Casing Type	Bottom Casing Depth	Lower Packer Depth	Initial Pressure	Final Pressure	Pressure Loss	% Loss	Pass	Fail
3F11-2	16-Nov-99	YELLOWMINE	300	290	168	160	8	5	X	
3G11-3	16-Nov-99	YELLOWMINE	277	265	168	164	4	2	X	
3D8-1	17-Nov-99	YELLOWMINE	301	290	168	160	8	5	X	
3F8-2	17-Nov-99	YELLOWMINE	288	275	168	164	4	2	X	
3F17-1	22-Nov-99	YELLOWMINE	264	250	168	162	6	2	X	
3B18-1	01-Dec-99	YELLOWMNE	291	280	168	160	8	5	X	
3E14-1	13-Dec-99	YELLOWMINE	273	260	168	163	5	3	X	
3E16-2	16-Dec-99	YELLOWMINE	264	250	168	165	3	2	X	
3O19-3	20-Dec-99	YELLOWMINE	227	215	168	164	4	2	X	
3N23-3	20-Dec-99	YELLOWMINE	248	235	168	0	168	100		X
3P25-3	27-Dec-99	YELLOWMINE	204	190	168	163	5	3	X	
3P23-1	27-Dec-99	YELLOWMINE	221	211	168	164	4	2	X	
3Q20-1	27-Dec-99	YELLOWMINE	225	215	168	163	5	3	X	
3Q21-1	27-Dec-99	YELLOWMINE	212	200	168	162	6	4	X	
3Q23-1	27-Dec-99	YELLOWMINE	220	210	168	162	6	4	X	
3P21-2	28-Dec-99	YELLOWMINE	228	210	168	163	5	3	X	
3R22-1	28-Dec-99	YELLOWMINE	222	210	168	163	5	3	X	
3R21-1	28-Dec-99	YELLOWMINE	209	200	168	162	6	4	X	
3S21-1	28-Dec-99	YELLOWMINE	202	190	168	161	7	4	X	
3R19-1	28-Dec-99	YELLOWMINE	223	210	168	161	7	4	X	
3R23-1	28-Dec-99	YELLOWMINE	214	200	168	160	8	5	X	
3L24-2	29-Dec-99	YELLOWMINE	210	200	168	154	14	8	X	
3T21-4	29-Dec-99	YELLOWMINE	210	200	168	162	6	4	X	
3N21-3	29-Dec-99	YELLOWMINE	207	195	168	162	6	4	X	
3N23-5	29-Dec-99	YELLOWMINE	210	200	168	162	6	4	X	
3O23-1	29-Dec-99	YELLOWMINE	215	200	168	166	2	1	X	
3S19-1	29-Dec-99	YELLOWMINE	209	199	168	162	6	4	X	
3T19-2	29-Dec-99	YELLOWMINE	212	200	168	0	168	100		X
3M19-3	30-Dec-99	YELLOWMINE	228	215	168	161	7	4	X	
3N19-1	30-Dec-99	YELLOWMINE	207	195	168	162	6	4	X	
3N22-4	30-Dec-99	YELLOWMINE	215	205	168	164	4	2	X	
3R26-3	30-Dec-99	YELLOWMINE	231	220	168	160	8	5	X	
3Q28-1	30-Dec-99	YELLOWMINE	195	185	168	160	8	5	X	
3O21-1	30-Dec-99	YELLOWMINE	221	210	168	161	7	4	X	

APPENDIX 2

Individual Monitor and Trend Well Analytical Data

APPENDIX 2 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

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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 2 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 2 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 2 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 2 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 2 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

PERIMETER ORE ZONE MONITOR WELLS

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 2 PERIMETER ORE ZONE MONITOR WELL

Well I.D. M2

2nd Half,1999

Water Quality Parameters	Chloride	Specific 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						
17 AUG 1999	16.7	788	*	90.8	8.4	4265.4
16 NOV 1999	17.4	804	*	92.2	8.5	4263.0

* Values Exceed Upper Control Limit

M2

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 2 PERIMETER ORE ZONE MONITOR WELL

Well I.D. M4

2nd Half,1999

Water Quality Parameters	Chloride	Specific 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							
18 AUG 1999	10.3	970	*	81.4	8.2		4281.0
29 NOV 1999	10.6	986	*	85.1	8.5		4281.5

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
18 AUG 1999	11.0	1907	*	93.8	8.0	4286.2
29 NOV 1999	11.2	1930	*	97.2	8.0	4285.9

* 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

Well I.D. M10

2nd Half,1999

Water Quality Parameters	Chloride	Specific 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						
18 AUG 1999	15.4	648	113.4	8.4		4269.6
17 NOV 1999	15.9	648	114.5	8.6		4267.8

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
18 AUG 1999	9.4	651	85.3	8.4		4277.6
29 NOV 1999	9.7	657	87.2	8.6		4279.7

* 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,1999

Water Quality Parameters	Chloride	Specific 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							
18 AUG 1999	10.4	1469	*	85.0	8.0		4284.1
29 NOV 1999	10.5	1557	*	92.2	8.2		4284.2

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
17 AUG 1999	10.5	603	95.2	8.6		4279.0
17 NOV 1999	10.4	606	94.8	8.6		4277.2

* Values Exceed Upper Control Limit

M19

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
17 AUG 1999	10.9	625 *	90.6	8.6		4278.5
17 NOV 1999	10.7	625 *	89.1	8.6		4276.7

* Values Exceed Upper Control Limit

M23

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
15 JUL 1999	8.7	505	111.9	8.8		4276.1
09 AUG 1999	8.2	501	106.4	8.7		4276.2
14 SEP 1999	8.4	502	106.4	8.6		4272.3
14 OCT 1999	8.9	506	110.9	8.7		4272.8
10 NOV 1999	8.8	503	110.7	8.7		4274.1
08 DEC 1999	8.8	496	112.2	8.7		4277.2

* Values Exceed Upper Control Limit

M24

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
15 JUL 1999	10.6	607	94.4	8.6		4269.5
09 AUG 1999	10.1	602	90.8	8.5		4269.6
22 SEP 1999	10.1	601	90.8	8.6		4266.1
14 OCT 1999	11.0	606	94.3	8.5		4266.9
10 NOV 1999	10.7	605	93.9	8.5		4267.7
08 DEC 1999	10.5	597	90.4	8.6		4271.1

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
15 JUL 1999	9.3	538	103.6	8.6		4264.1
09 AUG 1999	8.8	535	99.4	8.6		4264.4
14 SEP 1999	9.0	536	99.1	8.6		4257.7
14 OCT 1999	9.4	540	102.2	8.6		4258.2
09 NOV 1999	9.0	536	104.3	8.7		4261.6
08 DEC 1999	9.4	531	101.2	8.6		4265.6

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
15 JUL 1999	10.9	608	100.0	8.5		4254.8
10 AUG 1999	10.5	608	94.3	8.6		4254.5
14 SEP 1999	10.6	606	94.1	8.4		4246.7
14 OCT 1999	11.2	610	98.5	8.5		4248.2
10 NOV 1999	10.9	608	100.1	8.4		4252.6
08 DEC 1999	10.5	599	94.5	8.5		4257.9

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
15 JUL 1999	10.8	628	93.5	8.6		4257.2
09 AUG 1999	10.1	623	90.2	8.6		4260.5
14 SEP 1999	10.4	626	88.4	8.5		4250.2
13 OCT 1999	10.5	626	90.6	8.6		4249.1
09 NOV 1999	10.5	627	93.9	8.7		4255.2
08 DEC 1999	10.7	615	90.5	8.6		4259.1

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
15 JUL 1999	10.9	616	97.2	8.7		4253.1
10 AUG 1999	10.6	615	91.3	8.7		4252.6
14 SEP 1999	10.5	613	90.8	8.5		4243.1
14 OCT 1999	10.8	618	94.1	8.5		4245.7
10 NOV 1999	10.8	614	94.2	8.6		4251.6
08 DEC 1999	10.7	606	92.8	8.6		4257.6

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
15 JUL 1999	11.0	631	95.0	8.4		4263.8
09 AUG 1999	10.1	626	89.6	8.4		4272.0
14 SEP 1999	10.2	628	87.6	8.5		4264.0
13 OCT 1999	10.8	628	91.9	8.6		4258.7
09 NOV 1999	10.5	628	93.9	8.7		4261.8
08 DEC 1999	10.9	621	90.6	8.6		4263.2

* Values Exceed Upper Control Limit M30

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
15 JUL 1999	12.9	634	104.7	8.5		4252.7
10 AUG 1999	12.4	631	99.5	8.5		4253.5
14 SEP 1999	12.4	630	100.2	8.2		4249.0
14 OCT 1999	12.8	639	104.1	8.5		4251.1
10 NOV 1999	13.1	635	105.5	8.4		4256.9
08 DEC 1999	12.7	625	100.9	8.5		4260.9

* Values Exceed Upper Control Limit

M31

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
15 JUL 1999	11.0	630	95.9	8.5		4273.6
09 AUG 1999	10.1	624	90.1	8.4		4277.1
14 SEP 1999	10.5	627	90.1	8.4		4276.9
13 OCT 1999	10.8	629	92.3	8.5		4276.1
09 NOV 1999	10.5	629	94.4	8.6		4275.5
08 DEC 1999	10.5	621	89.7	8.5		4276.9

* Values Exceed Upper Control Limit

M32

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
15 JUL 1999	10.9	618	97.1	8.5		4253.8
10 AUG 1999	10.6	616	93.1	8.6		4255.3
14 SEP 1999	10.7	615	90.8	8.4		4258.6
14 OCT 1999	10.8	621	94.8	8.5		4258.3
10 NOV 1999	10.8	615	94.8	8.5		4261.5
08 DEC 1999	10.5	607	91.3	8.6		4264.1

* Values Exceed Upper Control Limit

M33

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
18 AUG 1999	13.6	697	90.6	8.3		4268.0
29 NOV 1999	14.1	700	87.1	8.6		4271.3

* Values Exceed Upper Control Limit

T31

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 5 PERIMETER ORE ZONE MONITOR WELL

Well I.D. RS27

2nd Half,1999

Water Quality Parameters	Chloride	Specific 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							
18 AUG 1999	11.7	679	*	94.7	8.3		4271.6
17 NOV 1999	11.9	694	*	95.5	8.5		4269.8

* Values Exceed Upper Control Limit

RS27

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 9 PERIMETER ORE ZONE MONITOR WELL

Well I.D. 16-151

2nd Half,1999

Water Quality Parameters	Chloride	Specific 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						
15 JUL 1999	10.8	608	92.8	8.6		4259.8
10 AUG 1999	10.5	609	88.9	8.7		4262.0
14 SEP 1999	10.4	605	88.3	8.4		4269.2
14 OCT 1999	10.9	613	91.7	8.6		4267.2
10 NOV 1999	10.8	607	91.9	8.6		4269.2
08 DEC 1999	10.7	599	89.5	8.5		4270.6

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
18 AUG 1999	22.6	*	1959	107.6	7.9	4304.5
29 NOV 1999	22.8	*	1979	110.8	8.0	4304.3

* Values Exceed Upper Control Limit

SSM2

Negative U3O8 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,1999

Water Quality Parameters	Chloride		Specific 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								
07 JUL 1999	54.2	*	1733	*	158.8	7.8	-1	4307.4
14 JUL 1999	52.2	*	1754	*	153.8	7.8	-1	4307.2
20 JUL 1999	53.1	*	1747	*	157.7	7.8	-1	4307.2
27 JUL 1999	52.3	*	1745	*	156.2	7.8	-1	4307.1
04 AUG 1999	47.4	*	1746	*	138.7	7.7	-1	4306.8
09 AUG 1999	51.3	*	1740	*	151.9	7.8	-1	4306.9
17 AUG 1999	53.9	*	1730	*	155.9	7.7	-1	4307.2
24 AUG 1999	52.7	*	1741	*	150.2	7.7	-1	4307.0
30 AUG 1999	53.3	*	1760	*	140.4	7.8	-1	4307.0
08 SEP 1999	52.4	*	1747	*	151.4	7.7	-1	4307.0
14 SEP 1999	52.4	*	1756	*	147.9	7.6	-1	4306.9
20 SEP 1999	53.9	*	1742	*	157.4	7.7	-1	4306.8
28 SEP 1999	50.9	*	1739	*	148.6	7.7	-1	4306.6
04 OCT 1999	52.6	*	1755	*	154.2	7.8	-1	4306.8
13 OCT 1999	55.3	*	1756	*	156.7	7.8	-1	4306.8
19 OCT 1999	53.9	*	1762	*	157.4	7.9	-1	4306.7
28 OCT 1999	55.0	*	1731	*	155.6	7.8	-1	4306.8
03 NOV 1999	53.5	*	1755	*	156.6	7.8	-1	4306.8
09 NOV 1999	52.8	*	1760	*	155.9	7.8	-1	4306.7
16 NOV 1999	54.0	*	1767	*	154.5	7.8	-1	4305.4
22 NOV 1999	53.8	*	1734	*	155.2	7.9	-1	4305.4
01 DEC 1999	53.9	*	1754	*	151.4	7.8	-1	4305.4
07 DEC 1999	54.6	*	1741	*	152.7	7.8	-1	4305.4
15 DEC 1999	54.7	*	1768	*	148.6	7.9	-1	4305.4
20 DEC 1999	54.6	*	1764	*	154.7	7.8	-1	4305.4
27 DEC 1999	54.5	*	1756	*	148.2	7.8	-1	4307.0

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
18 AUG 1999	12.5	626	127.7	7.4		4300.2
29 NOV 1999	18.6	701	274.1	8.3		4299.4

* Values Exceed Upper Control Limit SSM4

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
18 AUG 1999	14.5	728	217.6	7.9		4304.8
29 NOV 1999	14.7	741	216.8	8.1		4304.2

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
17 AUG 1999	10.9	2056	95.7	7.9		4306.5
17 NOV 1999	11.0	2060	98.7	7.9		4306.2

* Values Exceed Upper Control Limit SSM6

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
17 AUG 1999	11.8	2305	95.6	7.8		4307.1
17 NOV 1999	11.7	2306	94.6	7.9		4306.8

* Values Exceed Upper Control Limit

SSM7

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
17 AUG 1999	11.8	1997	91.6	7.7		4306.7
17 NOV 1999	12.3	2014	92.5	7.8		4306.4

* Values Exceed Upper Control Limit SSM8

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
20 JUL 1999	9.7	1540	96.2	7.5		4309.6
17 AUG 1999	9.1	1531	93.1	7.9		4309.5
22 SEP 1999	8.5	1518	91.2	7.9		4309.4
20 OCT 1999	8.9	1526	95.3	7.9		4309.3
10 NOV 1999	9.0	1529	93.7	7.8		4309.3
15 DEC 1999	9.0	1531	91.8	7.9		4309.4

* Values Exceed Upper Control Limit

SSM9

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
20 JUL 1999	12.6	1657	120.3	7.7		4309.4
17 AUG 1999	11.8	1640	115.8	7.9		4309.3
23 SEP 1999	10.9	1595	110.4	8.0		4308.9
13 OCT 1999	11.6	1625	113.2	8.0		4308.9
10 NOV 1999	11.4	1612	112.8	7.8		4308.7
15 DEC 1999	11.4	1610	110.0	8.0		4309.3

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
20 JUL 1999	12.8	2409	96.9	7.7		4310.7
17 AUG 1999	12.7	2440	91.6	7.8		4310.8
23 SEP 1999	12.6	2410	97.2	7.9		4310.5
20 OCT 1999	13.8	2506	94.6	7.8		4310.4
10 NOV 1999	12.8	2436	92.8	7.7		4310.6
15 DEC 1999	12.0	2389	89.6	7.9		4310.7

* 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,1999

Water Quality Parameters	Chloride		Specific 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								
07 JUL 1999	19.2	*	1722	152.4	*	7.7	-1	4310.9
14 JUL 1999	18.4	*	1715	149.1	*	7.8	-1	4310.9
20 JUL 1999	18.3	*	1714	149.1	*	7.9	-1	4310.8
27 JUL 1999	18.8	*	1723	152.8	*	7.8	-1	4310.7
04 AUG 1999	17.3	*	1715	142.6	*	7.8	-1	4310.6
09 AUG 1999	17.9	*	1711	146.8	*	7.8	-1	4310.6
17 AUG 1999	18.8	*	1726	150.4	*	7.8	-1	4310.7
24 AUG 1999	18.6	*	1715	148.4	*	8.0	-1	4310.7
30 AUG 1999	18.1	*	1729	148.3	*	7.8	-1	4310.7
08 SEP 1999	18.3	*	1726	147.6	*	7.6	-1	4310.5
14 SEP 1999	18.0	*	1721	144.9	*	7.6	-1	4310.5
20 SEP 1999	18.2	*	1706	151.7	*	7.7	-1	4310.5
28 SEP 1999	17.7	*	1709	145.9	*	7.7	-1	4310.3
04 OCT 1999	18.0	*	1716	148.5	*	7.7	-1	4310.5
13 OCT 1999	18.8	*	1721	150.2	*	7.8	-1	4310.5
19 OCT 1999	18.3	*	1721	153.0	*	7.8	-1	4310.5
28 OCT 1999	18.0	*	1684	146.8	*	7.7	-1	4310.4
03 NOV 1999	17.9	*	1699	152.0	*	7.7	-1	4310.3
09 NOV 1999	17.8	*	1715	150.3	*	7.8	-1	4310.5
16 NOV 1999	18.6	*	1726	150.5	*	7.7	-1	4309.4
22 NOV 1999	18.3	*	1710	152.2	*	7.8	-1	4309.4
01 DEC 1999	18.6	*	1713	151.1	*	7.8	-1	4309.4
07 DEC 1999	18.5	*	1704	150.9	*	7.9	-1	4309.4
15 DEC 1999	18.4	*	1722	146.2	*	7.8	-1	4309.4
20 DEC 1999	18.6	*	1721	151.4	*	7.7	-1	4309.4
27 DEC 1999	18.3	*	1707	145.6	*	7.7	-1	4310.7

* Values Exceed Upper Control Limit

SSM18

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
20 JUL 1999	9.4	1503	91.8	8.0		4311.4
10 AUG 1999	8.7	1489	85.4	8.1		4310.9
23 SEP 1999	8.3	1488	85.7	8.2		4311.4
19 OCT 1999	8.8	1498	90.6	8.2		4311.3
10 NOV 1999	9.1	1496	89.8	7.9		4310.5
08 DEC 1999	8.9	1469	85.7	8.1		4310.7

* Values Exceed Upper Control Limit

SSM19

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
20 JUL 1999	9.2	1245	94.9	7.9		4310.1
10 AUG 1999	8.7	1222	89.9	8.1		4310.1
22 SEP 1999	8.4	1215	88.0	8.0		4310.0
14 OCT 1999	8.9	1229	91.9	8.0		4310.0
10 NOV 1999	8.9	1233	91.4	8.0		4310.0
08 DEC 1999	8.9	1209	89.2	8.1		4310.2

* Values Exceed Upper Control Limit

SSM34

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
20 JUL 1999	9.1	1279	106.1	8.0		4310.7
10 AUG 1999	8.5	1273	98.9	8.2		4310.6
22 SEP 1999	8.4	1252	99.3	8.1		4310.6
14 OCT 1999	8.7	1266	101.3	8.1		4310.5
10 NOV 1999	8.7	1274	101.9	8.0		4310.5
08 DEC 1999	8.6	1259	98.9	8.1		4310.7

* Values Exceed Upper Control Limit

SSM35

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
20 JUL 1999	8.8	1285	104.1	8.0		4312.4
10 AUG 1999	7.9	1278	93.2	8.2		4312.4
22 SEP 1999	8.1	1265	97.8	8.1		4312.3
14 OCT 1999	8.6	1284	100.7	8.1		4312.3
10 NOV 1999	8.5	1278	100.6	8.0		4312.1
08 DEC 1999	8.2	1258	98.0	8.2		4312.4

* Values Exceed Upper Control Limit

SSM36

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
20 JUL 1999	10.8	1615	116.7	7.9		4306.6
10 AUG 1999	10.4	1613	109.6	8.1		4306.6
23 SEP 1999	10.2	1616	110.5	8.0		4306.4
19 OCT 1999	10.4	1627	114.6	8.0		4306.4
10 NOV 1999	10.5	1630	111.6	7.8		4306.3
15 DEC 1999	10.5	1631	108.5	7.9		4306.4

* Values Exceed Upper Control Limit

SSM37

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
20 JUL 1999	11.3	2249	103.3	7.8		4308.6
10 AUG 1999	10.6	2239	97.3	8.0		4308.7
23 SEP 1999	10.4	2220	96.7	8.0		4308.5
20 OCT 1999	10.6	2204	99.9	7.9		4308.5
10 NOV 1999	10.8	2236	98.7	7.8		4308.5
15 DEC 1999	10.4	2212	100.9	7.9		4308.7

* Values Exceed Upper Control Limit

SSM38

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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							
20 JUL 1999	12.7	1807	110.9	*	7.9		4307.3
10 AUG 1999	11.8	1796	103.6		8.0		4307.3
22 SEP 1999	11.1	1784	102.0		7.9		4307.2
20 OCT 1999	11.9	1795	107.6	*	7.9		4307.1
10 NOV 1999	12.0	1805	106.3	*	7.7		4306.9
15 DEC 1999	11.9	1812	102.4		7.9		4307.2

* 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,1999

Water Quality Parameters	Chloride	Specific 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								
07 JUL 1999	14.5	*	1481	114.6	*	8.1	-1	4312.6
14 JUL 1999	14.5	*	1494	114.5	*	8.0	-1	4312.6
20 JUL 1999	14.7	*	1529	116.5	*	8.0	-1	4312.5
27 JUL 1999	14.4	*	1498	114.8	*	8.0	-1	4312.3
04 AUG 1999	13.7	*	1506	109.7	*	8.1	-1	4309.4
09 AUG 1999	15.3	*	1553	121.6	*	7.9	-1	4312.3
17 AUG 1999	14.3	*	1532	113.2	*	8.0	-1	4312.4
24 AUG 1999	13.9	*	1489	109.8	*	8.3	-1	4312.4
30 AUG 1999	13.4		1506	107.9		8.1	-1	4312.3
08 SEP 1999	13.9	*	1520	110.3	*	7.8	-1	4312.2
14 SEP 1999	13.7	*	1508	107.8		7.8	-1	4312.2
20 SEP 1999	14.1	*	1500	114.2	*	8.0	-1	4312.2
28 SEP 1999	13.3		1498	107.8		8.0	-1	4311.9
04 OCT 1999	14.8	*	1536	118.8	*	7.9	-1	4312.2
13 OCT 1999	14.1	*	1491	111.6	*	8.0	-1	4312.2
19 OCT 1999	13.9	*	1511	114.0	*	8.1	-1	4312.1
28 OCT 1999	13.9	*	1465	111.1	*	8.1	-1	4312.2
03 NOV 1999	13.9	*	1507	114.3	*	7.9	-1	4312.1
09 NOV 1999	14.0	*	1516	114.5	*	8.0	-1	4312.1
16 NOV 1999	14.0	*	1530	111.7	*	8.1	-1	4312.1
22 NOV 1999	14.7	*	1565	116.1	*	8.2	-1	4312.1
01 DEC 1999	14.3	*	1532	112.6	*	8.1	-1	4312.1
07 DEC 1999	14.2	*	1514	111.7	*	8.2	-1	4312.1
15 DEC 1999	14.0	*	1509	107.9		8.1	-1	4312.1
20 DEC 1999	14.5	*	1517	114.7	*	8.1	-1	4312.1
27 DEC 1999	14.4	*	1530	111.3	*	8.0	-1	4312.3

* 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,1999

Water Quality Parameters	Chloride	Specific 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								
07 JUL 1999	33.1	*	2406	133.8	*	7.8	-1	4307.2
14 JUL 1999	32.1	*	2415	131.4	*	7.8	-1	4307.1
20 JUL 1999	32.7	*	2415	134.9	*	7.9	-1	4307.0
27 JUL 1999	32.4	*	2419	133.6	*	7.8	-1	4306.9
04 AUG 1999	30.1	*	2418	124.1		7.8	-1	4306.8
09 AUG 1999	30.7	*	2398	128.4	*	7.8	-1	4306.8
17 AUG 1999	31.9	*	2405	130.0	*	7.8	-1	4307.0
24 AUG 1999	31.8	*	2404	128.2	*	7.9	-1	4307.[illegible]
30 AUG 1999	30.9	*	2422	128.5	*	7.8	-1	4306.[illegible]
08 SEP 1999	31.1	*	2411	128.0	*	7.7	-1	4306.8
14 SEP 1999	30.7	*	2412	126.4		7.7	-1	4306.8
20 SEP 1999	31.7	*	2401	134.6	*	7.8	-1	4306.8
28 SEP 1999	31.0	*	2396	127.6	*	7.8	-1	4306.6
04 OCT 1999	31.2	*	2415	130.6	*	7.8	-1	4306.7
13 OCT 1999	33.1	*	2420	132.5	*	7.8	-1	4306.7
19 OCT 1999	31.6	*	2417	132.8	*	7.9	-1	4306.7
28 OCT 1999	32.5	*	2386	131.8	*	7.8	-1	4306.7
03 NOV 1999	31.7	*	2408	134.8	*	7.8	-1	4306.7
09 NOV 1999	32.1	*	2416	136.3	*	7.8	-1	4306.6
16 NOV 1999	32.0	*	2318	131.5	*	7.8	-1	4306.9
22 NOV 1999	31.9	*	2398	131.7	*	7.9	-1	4306.9
01 DEC 1999	32.3	*	2411	130.7	*	7.8	-1	4306.9
07 DEC 1999	32.0	*	2394	131.6	*	7.8	-1	4306.9
15 DEC 1999	32.5	*	2427	129.0	*	7.9	-1	4306.9
20 DEC 1999	32.7	*	2410	134.4	*	7.8	-1	4306.9
27 DEC 1999	32.6	*	2405	129.6	*	7.8	-1	4307.0

* 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,1999

Water Quality Parameters	Chloride		Specific 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								
07 JUL 1999	55.5	*	2264	*	139.2	7.8	-1	4303.4
14 JUL 1999	54.4	*	2280	*	134.9	7.8	-1	4303.3
20 JUL 1999	54.2	*	2282	*	138.2	7.8	-1	4303.2
27 JUL 1999	54.5	*	2285	*	139.1	7.7	-1	4303.1
04 AUG 1999	51.7	*	2283	*	130.6	7.6	-1	4303.0
09 AUG 1999	52.3	*	2271	*	133.9	7.7	-1	4303.0
17 AUG 1999	55.2	*	2274	*	142.1	7.6	-1	4303.2
24 AUG 1999	54.2	*	2278	*	137.2	7.6	-1	4303.1
30 AUG 1999	49.2	*	2297	*	144.4	7.8	-1	4303.0
08 SEP 1999	53.0	*	2281	*	138.7	7.7	-1	4303.0
14 SEP 1999	53.6	*	2300	*	135.8	7.6	-1	4302.9
20 SEP 1999	53.7	*	2285	*	139.5	7.8	-1	4302.9
28 SEP 1999	53.5	*	2274	*	134.0	7.8	-1	4302.8
04 OCT 1999	54.0	*	2293	*	137.5	7.8	-1	4302.8
13 OCT 1999	55.8	*	2282	*	136.7	7.8	-1	4302.8
19 OCT 1999	54.9	*	2300	*	139.4	7.9	-1	4302.7
28 OCT 1999	56.2	*	2260	*	138.4	7.8	-1	4302.8
03 NOV 1999	54.6	*	2285	*	138.1	7.7	-1	4302.7
09 NOV 1999	54.4	*	2288	*	138.7	7.8	-1	4302.6
16 NOV 1999	55.4	*	2302	*	135.5	7.7	-1	4302.6
22 NOV 1999	55.9	*	2271	*	138.7	7.9	-1	4302.6
01 DEC 1999	58.0	*	2275	*	141.8	7.8	-1	4302.6
07 DEC 1999	56.2	*	2265	*	137.0	7.8	-1	4302.6
15 DEC 1999	55.5	*	2293	*	130.7	7.8	-1	4302.6
20 DEC 1999	56.5	*	2287	*	138.0	7.8	-1	4302.6
27 DEC 1999	55.8	*	2270	*	132.9	7.7	-1	4302.7

* 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,1999

Water Quality Parameters	Chloride	Specific 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								
07 JUL 1999	36.1	*	1700	*	146.2	7.9	-1	4306.0
14 JUL 1999	34.7	*	1705	*	140.6	7.9	-1	4305.9
20 JUL 1999	34.8	*	1709	*	142.5	7.9	-1	4305.8
27 JUL 1999	34.3	*	1709	*	140.2	7.7	-1	4305.7
04 AUG 1999	34.8	*	1707	*	143.3	7.8	-1	4305.6
09 AUG 1999	32.7	*	1703	*	136.2	7.6	-1	4305.6
17 AUG 1999	34.5	*	1689	*	139.6	7.7	-1	4305.8
24 AUG 1999	33.7	*	1698	*	136.2	7.8	-1	4305.7
30 AUG 1999	34.8	*	1710	*	146.5	7.9	-1	4305.[illegible]
08 SEP 1999	34.0	*	1696	*	137.5	7.7	-1	4305.7
14 SEP 1999	33.2	*	1703	*	134.5	7.7	-1	4305.6
20 SEP 1999	33.7	*	1691	*	141.7	7.9	-1	4305.6
28 SEP 1999	33.5	*	1686	*	137.2	7.8	-1	4305.5
04 OCT 1999	33.9	*	1702	*	140.6	7.8	-1	4305.5
13 OCT 1999	35.7	*	1703	*	142.9	7.9	-1	4305.6
19 OCT 1999	34.4	*	1704	*	144.3	8.1	-1	4305.5
28 OCT 1999	35.1	*	1674	*	142.6	7.9	-1	4305.5
03 NOV 1999	34.1	*	1700	*	142.9	7.9	-1	4305.5
09 NOV 1999	34.3	*	1705	*	144.1	7.9	-1	4305.4
16 NOV 1999	34.5	*	1718	*	140.4	7.9	-1	4304.1
22 NOV 1999	34.1	*	1693	*	139.9	8.0	-1	4304.1
01 DEC 1999	34.3	*	1699	*	138.1	8.0	-1	4304.1
07 DEC 1999	34.7	*	1687	*	140.1	8.0	-1	4304.1
15 DEC 1999	34.8	*	1716	*	136.5	8.0	-1	4304.1
20 DEC 1999	36.2	*	1704	*	146.6	8.0	-1	4304.1
27 DEC 1999	36.1	*	1699	*	142.6	7.9	-1	4305.7

* Values Exceed Upper Control Limit

SSM43

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
18 AUG 1999	9.1	482	113.8	8.2		4301.5
29 NOV 1999	9.1	485	114.9	8.6		4300.7

* 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

Well I.D. DM2

2nd Half,1999

Water Quality Parameters	Chloride	Specific 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						
18 AUG 1999	8.5	606	178.7	8.0		4285.4
29 NOV 1999	8.5	612	183.4	8.3		4284.9

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
18 AUG 1999	12.9	568	168.6	8.2		4287.5
29 NOV 1999	13.0	573	173.9	8.4		4286.3

* Values Exceed Upper Control Limit

DM3

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
17 AUG 1999	9.2	527	95.1	8.8		4280.8
17 NOV 1999	9.4	524	97.9	8.8		4276.7

* Values Exceed Upper Control Limit

DM4

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 2 INTERIOR DEEP SAND MONITOR WELL

Well I.D. DM5

2nd Half,1999

Water Quality Parameters	Chloride	Specific 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						
18 AUG 1999	8.5	619	195.7	8.1		4278.0
29 NOV 1999	8.4	622	198.0	8.2		4277.6

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
17 AUG 1999	9.2	532	97.4	8.8		4278.9
17 NOV 1999	9.4	531	99.1	8.7		4277.8

* Values Exceed Upper Control Limit

DM9

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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									
07 JUL 1999	18.4	*	739	*	174.5	*	8.1	-1	4279.3
14 JUL 1999	18.2	*	747	*	173.5	*	8.1	-1	4280.3
20 JUL 1999	18.4	*	746	*	177.3	*	8.2	-1	4281.0
27 JUL 1999	18.5	*	747	*	176.7	*	8.2	-1	4280.3
04 AUG 1999	17.2	*	737	*	167.3	*	8.3	-1	4281.1
09 AUG 1999	17.9	*	747	*	173.2	*	8.1	-1	4280.6
17 AUG 1999	18.3	*	747	*	174.4	*	8.2	-1	4280.8
24 AUG 1999	17.8	*	739	*	168.8	*	8.5	-1	4279.4
30 AUG 1999	17.8	*	750	*	170.4	*	8.2	-1	4278.1
08 SEP 1999	17.6	*	735	*	166.3	*	8.0	-1	4277.3
14 SEP 1999	17.8	*	748	*	167.6	*	8.0	-1	4277.7
20 SEP 1999	18.2	*	745	*	179.5	*	8.2	-1	4277.2
28 SEP 1999	17.5	*	749	*	168.3	*	8.2	-1	4277.0
04 OCT 1999	18.3	*	754	*	174.6	*	8.2	-1	4277.5
13 OCT 1999	18.6	*	747	*	174.8	*	8.2	-1	4277.8
19 OCT 1999	19.0	*	761	*	178.9	*	8.3	-1	4277.6
28 OCT 1999	18.9	*	741	*	176.7	*	8.2	-1	4277.3
03 NOV 1999	19.2	*	761	*	184.7	*	8.2	-1	4276.8
09 NOV 1999	19.3	*	764	*	184.3	*	8.2	-1	4278.7
16 NOV 1999	19.2	*	768	*	180.9	*	8.2	-1	4278.7
22 NOV 1999	18.9	*	766	*	186.2	*	8.3	-1	4278.7
01 DEC 1999	19.1	*	756	*	178.2	*	8.3	-1	4278.7
07 DEC 1999	20.0	*	760	*	182.7	*	8.2	-1	4278.7
15 DEC 1999	20.2	*	780	*	182.7	*	8.2	-1	4278.7
20 DEC 1999	21.1	*	777	*	194.6	*	8.2	-1	4278.7
27 DEC 1999	20.0	*	776	*	181.0	*	8.2	-1	4281.6

* Values Exceed Upper Control Limit

DM10

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

IRIGARAY RANCH

Mine Unit 7 INTERIOR DEEP SAND MONITOR WELL

Well I.D. DM11

2nd Half,1999

Water Quality Parameters	Chloride	Specific 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						
20 JUL 1999	10.5	563	97.4	8.5		4281.3
30 AUG 1999	9.6	557	91.1	8.7		4282.0
23 SEP 1999	9.8	557	92.9	8.7		4279.2
20 OCT 1999	10.1	557	96.4	8.7		4280.4
10 NOV 1999	10.1	555	93.9	8.6		4279.7
15 DEC 1999	10.1	558	92.3	8.7		4281.7

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
20 JUL 1999	10.4	558	99.1	8.4		4291.4
10 AUG 1999	9.6	553	92.0	8.7		4291.3
23 SEP 1999	9.5	554	93.5	8.6		4290.3
19 OCT 1999	9.8	556	97.3	8.7		4290.1
10 NOV 1999	10.0	554	95.2	8.5		4289.6
15 DEC 1999	10.0	555	93.9	8.6		4291.1

* Values Exceed Upper Control Limit

DM13

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
20 JUL 1999	10.5	568	96.3	8.5		4289.1
10 AUG 1999	10.1	563	90.9	8.7		4289.3
23 SEP 1999	9.8	565	93.2	8.8		4288.2
19 OCT 1999	9.9	567	96.6	8.8		4288.2
10 NOV 1999	10.2	564	94.1	8.6		4287.9
08 DEC 1999	10.2	556	91.9	8.7		4288.9

* Values Exceed Upper Control Limit

DM14

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
20 JUL 1999	10.6	570	96.2	8.5		4294.2
10 AUG 1999	10.2	565	92.3	8.7		4294.0
22 SEP 1999	9.8	562	91.3	8.6		4293.3
14 OCT 1999	10.5	567	96.7	8.7		4293.2
10 NOV 1999	10.3	567	94.7	8.6		4292.5
08 DEC 1999	10.3	558	93.8	8.8		4293.4

* Values Exceed Upper Control Limit

DM15

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
20 JUL 1999	10.8	574	94.9	8.6		4295.0
10 AUG 1999	10.1	570	89.6	8.8		4294.9
22 SEP 1999	10.0	568	88.9	8.9		4294.4
14 OCT 1999	10.5	576	93.6	8.8		4294.2
10 NOV 1999	10.4	572	93.8	8.8		4293.6
08 DEC 1999	10.2	561	90.0	8.8		4294.4

* Values Exceed Upper Control Limit

DM16

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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							
17 AUG 1999	8.8	538	113.0	*	8.6		4276.5
17 NOV 1999	9.0	541	120.8	*	8.6		4276.3

* Values Exceed Upper Control Limit

DM17

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
17 AUG 1999	9.2	531	93.8	8.6		4279.2
17 NOV 1999	9.7	537	97.8	8.6		4277.1

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
18 AUG 1999	11.1	522	143.5	8.1		4251.7
29 NOV 1999	10.3	532	144.6	8.4		4256.7

* Values Exceed Upper Control Limit DM19

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
18 AUG 1999	9.2	518	98.2	8.4		4281.5
29 NOV 1999	9.4	519	102.2	8.7		4281.6

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
20 JUL 1999	10.7	565	97.4	8.5		4288.6
10 AUG 1999	10.0	560	91.6	8.7		4288.7
23 SEP 1999	10.7	562	93.3	8.6		4287.1
19 OCT 1999	10.1	562	98.0	8.7		4286.9
10 NOV 1999	10.2	560	94.5	8.5		4287.0
15 DEC 1999	10.0	559	91.3	8.7		4288.9

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
20 JUL 1999	10.7	551	100.9	8.2		4280.4
10 AUG 1999	10.0	556	92.8	8.7		4280.4
17 AUG 1999	9.9	544	95.7	8.6		4280.8
23 SEP 1999	9.4	541	94.8	8.5		4276.8
20 OCT 1999	9.7	545	98.3	8.8		4277.4
10 NOV 1999	9.8	543	95.7	8.4		4279.2
15 DEC 1999	10.0	546	95.6	8.7		4281.4

* 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,1999

Water Quality 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						
18 AUG 1999	17.7			8.4		4282.4
29 NOV 1999	18.1			8.5		4281.6

* Values Exceed Restoration Target RS19

Negative U3O8 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,1999

Water Quality 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				
18 AUG 1999	51.8		8.4	4277.7
29 NOV 1999	51.0		8.6	4278.1

* 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,1999

Water Quality 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				
18 AUG 1999	34.4		7.7	4278.7
29 NOV 1999	33.4		7.9	4279.0

* 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

Well I.D. SM1

2nd Half,1999

Water Quality 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				
18 AUG 1999	27.7		8.3	4284.2
29 NOV 1999	27.1		8.5	4283.3

* 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,1999

Water Quality 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				
18 AUG 1999	21.2		8.2	4281.8
29 NOV 1999	21.7		8.3	4281.2

* 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,1999

Water Quality 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					
18 AUG 1999	76.0	*		8.3	4278.3
29 NOV 1999	76.0	*		8.6	4277.6

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
27 JUL 1999	9.9	672	94.0	8.7		4492.2
24 AUG 1999	9.5	665	89.0	8.6		4488.9
21 SEP 1999	9.7	678	94.2	8.7		4489.3
12 OCT 1999	9.8	664	91.3	8.6		4487.5
10 NOV 1999	9.9	674	91.3	8.6		4497.8
19 DEC 1999	10.1	670	90.0	8.6		4497.8

* Values Exceed Upper Control Limit

MW17-2

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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					
27 JUL 1999	9.5	663	95.6	8.6	4491.7
24 AUG 1999	9.0	665	90.6	8.5	4488.2
21 SEP 1999	9.6	682	98.0	8.6	4488.8
12 OCT 1999	9.7	663	96.7	8.5	4486.4
10 NOV 1999	9.5	664	99.6	8.4	4491.6
19 DEC 1999	9.9	673	98.6	8.5	4494.8

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
27 JUL 1999	9.8	665	97.1	8.5		4477.9
24 AUG 1999	9.1	660	90.9	8.4		4473.7
21 SEP 1999	9.8	678	99.1	8.4		4475.9
12 OCT 1999	9.9	665	96.0	8.3		4473.8
10 NOV 1999	9.8	667	94.3	8.3		4477.7
19 DEC 1999	9.8	671	91.2	8.4		4487.5

* 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

Well I.D. MW20

2nd Half,1999

Water Quality Parameters	Chloride	Specific 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						
27 JUL 1999	9.2	665	99.2	8.6		4501.1
24 AUG 1999	8.7	672	93.5	8.4		4497.2
21 SEP 1999	9.6	683	102.1	8.6		4497.8
12 OCT 1999	9.2	665	97.7	8.4		4495.2
10 NOV 1999	9.4	677	95.7	8.4		4503.1
19 DEC 1999	9.7	676	98.2	8.4		4504.7

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
27 JUL 1999	9.9	664	97.1	8.6		4504.8
24 AUG 1999	9.2	672	91.1	8.5		4500.3
21 SEP 1999	9.6	679	96.1	8.6		4500.1
12 OCT 1999	10.0	667	97.4	8.5		4497.9
10 NOV 1999	9.9	676	94.6	8.4		4500.9
19 DEC 1999	9.8	673	93.9	8.4		4501.2

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
27 JUL 1999	9.8	662	93.7	8.7		4499.9
24 AUG 1999	9.1	665	88.2	8.6		4494.6
21 SEP 1999	9.9	674	95.0	8.7		4494.3
12 OCT 1999	10.2	660	96.1	8.6		4491.7
10 NOV 1999	9.8	672	91.2	8.5		4487.8
19 DEC 1999	9.9	666	90.1	8.1		4488.1

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
27 JUL 1999	9.9	661	95.7	8.6		4495.1
24 AUG 1999	9.7	668	95.3	8.5		4489.5
21 SEP 1999	9.5	672	94.2	8.6		4489.5
12 OCT 1999	9.7	656	92.9	8.5		4487.2
10 NOV 1999	9.8	669	91.4	8.4		4491.2
19 DEC 1999	9.7	666	89.9	8.5		4491.8

* Values Exceed Upper Control Limit MW25

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
27 JUL 1999	10.2	657	93.3	8.6		4486.1
24 AUG 1999	9.4	664	87.3	8.5		4479.7
21 SEP 1999	9.6	668	91.6	8.6		4480.1
12 OCT 1999	9.9	654	90.2	8.5		4477.9
10 NOV 1999	10.1	665	90.2	8.5		4481.9
19 DEC 1999	9.9	663	88.0	8.5		4482.5

* Values Exceed Upper Control Limit

MW26

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
27 JUL 1999	10.1	655	93.7	8.6		4473.5
24 AUG 1999	9.4	666	88.6	8.5		4466.4
21 SEP 1999	9.8	670	94.4	8.6		4466.6
12 OCT 1999	10.5	656	96.7	8.5		4464.4
10 NOV 1999	9.9	668	90.0	8.4		4473.3
19 DEC 1999	10.0	665	89.0	8.5		4474.0

* Values Exceed Upper Control Limit

MW27

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3 PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW28

2nd Half,1999

Water Quality Parameters	Chloride	Specific 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						
27 JUL 1999	10.1	676	95.8	8.6		4490.9
24 AUG 1999	10.1	668	92.5	8.3		4486.2
21 SEP 1999	9.6	677	99.2	8.2		4485.3
12 OCT 1999	12.6	661	100.1	7.9		4480.7
10 NOV 1999	12.4	672	100.4	8.1		4496.8
16 DEC 1999	10.2	673	96.4	8.0		4499.1

* Values Exceed Upper Control Limit

MW28

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
27 JUL 1999	9.8	673	97.9	8.6		4500.5
24 AUG 1999	9.3	666	93.3	8.5		4496.6
21 SEP 1999	9.5	674	96.9	8.6		4495.0
11 OCT 1999	9.6	660	94.9	8.6		4491.2
10 NOV 1999	9.8	667	94.9	8.4		4507.0
16 DEC 1999	9.7	670	93.5	8.5		4508.1

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
27 JUL 1999	9.5	682	100.4	8.5		4515.3
24 AUG 1999	9.0	679	95.8	8.5		4512.3
21 SEP 1999	9.5	682	101.6	8.6		4510.5
11 OCT 1999	9.4	666	99.0	8.5		4508.2
10 NOV 1999	9.5	678	97.9	8.5		4517.1
16 DEC 1999	9.4	678	95.7	8.5		4518.1

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
27 JUL 1999	9.4	681	100.7	8.7		4520.3
24 AUG 1999	9.1	676	96.3	8.5		4517.8
21 SEP 1999	9.2	685	101.1	8.6		4517.8
11 OCT 1999	9.3	672	98.8	8.6		4517.8
10 NOV 1999	9.4	678	98.5	8.5		4517.8
16 DEC 1999	9.3	679	102.6	8.5		4522.2

* Values Exceed Upper Control Limit

MW31

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
26 JUL 1999	9.1	673	101.2	8.7		4527.6
24 AUG 1999	9.0	679	96.3	8.4		4530.9
21 SEP 1999	8.8	672	96.1	8.5		4529.3
11 OCT 1999	9.3	680	102.8	8.2		4528.4
10 NOV 1999	9.4	681	99.1	8.5		4532.4
19 DEC 1999	9.2	677	96.6	8.3		4532.4

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
27 JUL 1999	9.1	667	100.4	8.5		4525.6
24 AUG 1999	8.8	676	97.1	8.4		4523.4
21 SEP 1999	9.0	684	103.5	8.5		4522.4
11 OCT 1999	9.1	678	98.4	8.5		4521.2
10 NOV 1999	9.4	675	98.5	8.4		4524.9
19 DEC 1999	9.7	678	101.7	8.4		4527.6

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
27 JUL 1999	9.2	672	99.2	8.5		4524.5
24 AUG 1999	9.4	675	95.1	8.3		4521.4
21 SEP 1999	9.3	683	101.3	8.5		4520.2
12 OCT 1999	9.6	666	98.5	8.4		4518.5
10 NOV 1999	9.4	671	97.9	8.4		4521.5
19 DEC 1999	9.3	675	95.1	8.4		4524.1

* Values Exceed Upper Control Limit

MW36

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
27 JUL 1999	9.4	677	100.6	8.5		4515.6
24 AUG 1999	9.1	674	95.8	8.3		4512.5
21 SEP 1999	9.4	682	100.8	8.5		4511.3
12 OCT 1999	9.8	666	100.4	8.4		4509.3
10 NOV 1999	9.7	671	97.6	8.4		4513.8
19 DEC 1999	9.7	676	98.4	8.4		4517.9

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
27 JUL 1999	10.6	663	103.4	8.8		4519.1
24 AUG 1999	9.8	676	96.7	8.7		4515.9
21 SEP 1999	9.5	669	95.2	8.7		4514.3
11 OCT 1999	10.1	671	99.8	8.4		4513.0
09 NOV 1999	9.9	670	97.8	8.5		4517.9
16 DEC 1999	9.9	667	100.3	8.7		4519.1

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
27 JUL 1999	10.1	669	101.3	8.7		4518.4
24 AUG 1999	9.4	678	95.6	8.6		4515.2
21 SEP 1999	9.5	674	95.7	8.6		4513.8
11 OCT 1999	9.8	675	99.3	8.4		4512.2
09 NOV 1999	10.1	671	98.6	8.5		4517.4
16 DEC 1999	9.8	670	98.5	8.7		4518.4

* Values Exceed Upper Control Limit

MW39

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
27 JUL 1999	9.5	664	99.8	8.6		4519.0
24 AUG 1999	8.8	675	93.8	8.5		4516.0
21 SEP 1999	9.1	669	94.4	8.5		4514.3
11 OCT 1999	9.3	665	97.5	8.6		4512.8
10 NOV 1999	9.7	674	97.5	8.5		4518.4
19 DEC 1999	10.0	676	101.8	8.5		4519.1

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
26 JUL 1999	9.4	679	103.6	8.6		4541.5
24 AUG 1999	8.6	677	98.6	8.5		4539.3
21 SEP 1999	8.9	678	99.9	8.5		4538.0
11 OCT 1999	9.2	687	107.0	8.4		4537.3
10 NOV 1999	9.5	685	103.6	8.4		4539.8
19 DEC 1999	9.2	679	98.7	8.4		4539.8

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
26 JUL 1999	9.5	671	99.4	8.8		4546.6
24 AUG 1999	9.0	670	93.4	8.6		4544.4
21 SEP 1999	9.0	670	93.6	8.6		4543.3
11 OCT 1999	9.4	683	99.9	8.6		4543.0
10 NOV 1999	9.4	673	97.8	8.7		4544.2
19 DEC 1999	9.9	661	92.7	8.6		4544.2

* Values Exceed Upper Control Limit

Negative U3O8 Grades Indicate Less Than Detection Limit.

MW42

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3 PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW43

2nd Half,1999

Water Quality Parameters	Chloride	Specific 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						
26 JUL 1999	9.1	671	100.0	8.7		4551.2
24 AUG 1999	8.9	675	95.2	8.5		4549.3
21 SEP 1999	8.8	670	94.8	8.5		4548.5
11 OCT 1999	9.2	677	102.7	8.5		4548.2
10 NOV 1999	9.3	673	96.9	8.5		4549.3
16 DEC 1999	9.1	673	95.0	8.5		4549.8

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
27 JUL 1999	9.5	673	100.1	8.5		4530.8
24 AUG 1999	9.0	675	96.0	8.3		4528.7
21 SEP 1999	9.2	684	99.3	8.5		4526.9
11 OCT 1999	9.3	676	103.3	8.4		4526.7
10 NOV 1999	9.4	676	97.2	8.3		4528.4
16 DEC 1999	9.3	678	94.3	8.4		4528.5

* Values Exceed Upper Control Limit

MW44

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
27 JUL 1999	9.2	669	99.8	8.5		4530.4
24 AUG 1999	8.8	674	94.7	8.4		4527.6
21 SEP 1999	9.4	684	101.8	8.5		4526.2
11 OCT 1999	9.3	674	98.0	8.5		4525.9
10 NOV 1999	9.4	671	97.0	8.3		4528.3
19 DEC 1999	9.6	680	97.5	8.3		4528.3

* Values Exceed Upper Control Limit

MW45

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
27 JUL 1999	9.7	676	93.3	9.1		4540.6
24 AUG 1999	9.1	674	90.3	9.0		4538.1
21 SEP 1999	9.3	680	94.5	9.1		4536.4
11 OCT 1999	9.7	672	94.5	9.0		4536.3
10 NOV 1999	9.2	678	92.5	9.1		4537.5
16 DEC 1999	9.5	674	88.7	9.0		4537.8

* Values Exceed Upper Control Limit

MW62

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
26 JUL 1999	9.1	666	88.4	9.3		4545.7
24 AUG 1999	8.8	668	87.6	8.9		4544.1
21 SEP 1999	9.2	679	93.4	9.2		4542.7
11 OCT 1999	9.5	677	98.0	8.9		4542.5
09 NOV 1999	9.3	672	90.8	8.9		4543.7
16 DEC 1999	9.2	671	88.1	8.9		4543.8

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
26 JUL 1999	9.1	676	102.1	8.6		4550.9
24 AUG 1999	8.5	676	97.2	8.3		4549.3
21 SEP 1999	9.0	684	102.6	8.3		4548.4
11 OCT 1999	9.0	680	108.7	8.5		4548.3
09 NOV 1999	9.1	678	100.8	8.2		4549.6
16 DEC 1999	9.2	680	100.9	8.3		4549.6

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
21 JUL 1999	9.4	679	102.0	8.7		4525.2
10 AUG 1999	9.1	679	94.4	8.6		4522.9
13 SEP 1999	9.3	681	96.3	8.5		4519.4
06 OCT 1999	9.6	679	97.9	8.7		4518.2
02 NOV 1999	9.5	673	99.3	8.6		4521.9
01 DEC 1999	9.2	672	95.2	8.8		4522.9

* 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

Well I.D. MW74

2nd Half,1999

Water Quality Parameters	Chloride	Specific 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						
21 JUL 1999	9.3	680	103.1	8.7		4526.7
10 AUG 1999	9.1	680	98.7	8.6		4524.3
13 SEP 1999	9.0	682	96.0	8.6		4521.0
06 OCT 1999	9.4	682	100.8	8.6		4520.1
02 NOV 1999	9.3	674	100.4	8.5		4523.1
01 DEC 1999	9.8	674	101.4	8.7		4524.2

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
21 JUL 1999	9.3	679	99.7	8.8		4527.6
10 AUG 1999	9.1	678	94.6	8.5		4525.3
13 SEP 1999	9.0	680	94.3	8.6		4521.9
06 OCT 1999	9.4	680	98.2	8.5		4521.0
02 NOV 1999	9.4	674	99.3	8.5		4523.3
01 DEC 1999	9.4	675	96.5	8.7		4524.7

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
21 JUL 1999	8.4	731	97.0	8.5		4534.4
10 AUG 1999	8.1	730	93.1	8.3		4532.3
13 SEP 1999	8.2	725	91.1	8.5		4529.2
06 OCT 1999	8.9	725	96.5	8.5		4528.7
02 NOV 1999	8.6	711	96.3	8.4		4529.8
01 DEC 1999	8.6	713	93.9	8.6		4531.1

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
21 JUL 1999	8.7	733	97.9	8.4		4536.0
10 AUG 1999	8.3	731	92.9	8.3		4533.8
13 SEP 1999	8.2	734	90.8	8.3		4531.0
06 OCT 1999	8.4	735	92.7	8.3		4530.3
02 NOV 1999	8.4	726	94.6	8.2		4531.1
01 DEC 1999	8.4	729	92.3	8.5		4532.4

* 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

Well I.D. MW78 2nd Half,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	9.3	715	97.4	8.5		4530.6
10 AUG 1999	8.6	713	92.4	8.4		4530.7
13 SEP 1999	8.5	715	92.2	8.4		4525.5
06 OCT 1999	8.8	716	98.7	8.4		4524.6
02 NOV 1999	8.7	707	94.5	8.6		4525.4
01 DEC 1999	9.0	710	96.4	8.5		4526.8

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
21 JUL 1999	8.5	731	96.9	8.5		4531.5
10 AUG 1999	8.3	730	91.7	8.3		4528.6
13 SEP 1999	8.3	731	91.2	8.3		4526.4
06 OCT 1999	8.5	732	94.1	8.3		4525.4
02 NOV 1999	8.3	722	94.1	8.5		4525.0
01 DEC 1999	8.5	725	93.7	8.5		4527.0

* Values Exceed Upper Control Limit

MW79

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 2 PERIMETER ORE ZONE MONITOR WELL

Well I.D. MW80 2nd Half,1999

Water Quality Parameters	Chloride	Specific 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						
21 JUL 1999	9.1	701	98.0	8.5		4532.1
10 AUG 1999	8.9	703	94.8	8.2		4529.6
13 SEP 1999	8.6	700	92.3	8.3		4527.4
06 OCT 1999	9.1	698	94.6	8.3		4526.5
02 NOV 1999	9.3	690	96.3	8.5		4526.3
01 DEC 1999	9.4	695	98.7	8.5		4527.2

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
21 JUL 1999	9.3	680	97.1	8.6		4534.1
10 AUG 1999	9.0	678	91.9	8.4		4531.8
13 SEP 1999	8.8	680	90.8	8.4		4529.8
06 OCT 1999	9.3	680	95.1	8.3		4528.8
02 NOV 1999	9.4	673	95.6	8.6		4529.2
01 DEC 1999	9.4	676	95.0	8.5		4530.0

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	10.1	670	96.3	8.5		4527.5
10 AUG 1999	9.3	667	91.3	8.4		4525.1
13 SEP 1999	9.5	658	91.0	8.4		4523.0
05 OCT 1999	9.8	673	95.6	8.4		4522.1
02 NOV 1999	9.8	661	94.1	8.6		4521.7
01 DEC 1999	9.7	666	93.3	8.5		4522.7

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	9.4	683	97.7	8.6		4526.7
10 AUG 1999	9.0	681	93.7	8.4		4524.7
13 SEP 1999	8.8	671	92.6	8.5		4522.0
05 OCT 1999	9.4	687	97.2	8.4		4521.0
02 NOV 1999	9.3	673	95.9	8.6		4520.7
01 DEC 1999	9.4	678	94.2	8.5		4521.9

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	9.7	685	99.2	8.5		4525.5
10 AUG 1999	9.1	677	94.1	8.4		4524.9
13 SEP 1999	9.0	667	93.6	8.5		4520.7
05 OCT 1999	9.5	682	97.5	8.4		4519.6
02 NOV 1999	9.6	670	104.6	8.6		4519.3
01 DEC 1999	9.7	677	98.9	8.5		4520.2

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	10.0	671	98.8	8.5		4522.4
10 AUG 1999	9.5	669	93.5	8.3		4519.4
13 SEP 1999	9.7	660	96.1	8.4		4517.1
05 OCT 1999	10.1	673	97.9	8.4		4515.8
02 NOV 1999	10.7	662	104.6	8.5		4516.2
01 DEC 1999	9.7	667	93.8	8.5		4517.3

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
21 JUL 1999	9.7	678	97.8	8.5		4518.7
10 AUG 1999	9.4	670	93.3	8.3		4515.2
13 SEP 1999	9.4	661	93.4	8.4		4512.9
05 OCT 1999	9.9	674	96.3	8.3		4511.5
02 NOV 1999	9.9	663	96.9	8.5		4512.4
01 DEC 1999	9.7	668	101.5	8.5		4513.6

* Values Exceed Upper Control Limit

MW86

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
21 JUL 1999	9.8	673	99.3	8.5		4513.6
10 AUG 1999	9.4	670	93.8	8.3		4509.9
13 SEP 1999	9.9	661	99.9	8.4		4507.1
05 OCT 1999	9.8	674	96.3	8.3		4505.7
02 NOV 1999	9.7	665	96.7	8.5		4507.5
01 DEC 1999	9.5	668	94.2	8.4		4508.4

* Values Exceed Upper Control Limit

MW87

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
21 JUL 1999	9.6	673	99.3	8.5		4510.4
10 AUG 1999	9.4	672	94.2	8.3		4506.9
13 SEP 1999	10.0	662	100.5	8.4		4503.5
05 OCT 1999	9.6	677	96.3	8.4		4501.2
02 NOV 1999	9.6	667	97.2	8.5		4505.3
01 DEC 1999	9.4	669	100.6	8.4		4505.9

* 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,1999

Water Quality Parameters	Chloride	Specific 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								
06 JUL 1999	15.7	*	734	118.6		8.5		4509.9
21 JUL 1999	15.8	*	730	120.1		8.4		4505.1
10 AUG 1999	15.8	*	738	115.2		8.2		4501.8
23 AUG 1999	16.4	*	727	117.1		8.4		4499.6
08 SEP 1999	16.4	*	742	115.2		8.1		4498.7
13 SEP 1999	16.1	*	735	115.2		8.2		4497.8
05 OCT 1999	17.5	*	756	123.6	*	8.2	-1	4496.3
07 OCT 1999	17.1	*	740	121.9	*	8.2	-1	4496.9
11 OCT 1999	17.4	*	752	123.3	*	7.6	-1	4495.5
18 OCT 1999	17.4	*	756	124.7	*	8.4	-1	4495.5
25 OCT 1999	17.1	*	750	124.0	*	8.3	-1	4498.2
02 NOV 1999	17.3	*	750	126.1	*	8.3	-1	4502.0
09 NOV 1999	17.1	*	749	124.6	*	8.3	-1	4502.0
15 NOV 1999	17.4	*	753	124.1	*	8.3	-1	4501.6
22 NOV 1999	16.9	*	755	124.9	*	8.3	-1	4502.2
29 NOV 1999	16.6	*	745	123.5	*	8.3	-1	4501.5
06 DEC 1999	17.0	*	753	122.6	*	8.3	-1	4501.9
13 DEC 1999	16.9	*	747	121.0		8.3	-1	4501.5
20 DEC 1999	17.0	*	744	126.2	*	8.3	-1	4502.2
27 DEC 1999	17.3	*	758	123.0	*	8.3	-1	4502.8

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
21 JUL 1999	9.3	687	97.6	8.5		4535.1
10 AUG 1999	9.0	685	92.7	8.4		4531.6
13 SEP 1999	8.9	689	91.2	8.4		4529.9
06 OCT 1999	9.2	686	94.4	8.3		4528.9
02 NOV 1999	9.5	682	96.7	8.5		4529.8
01 DEC 1999	9.5	681	97.2	8.5		4531.0

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
21 JUL 1999	9.5	679	95.4	8.6		4536.4
11 AUG 1999	9.1	673	90.7	8.4		4534.9
13 SEP 1999	9.3	681	90.6	8.3		4533.1
05 OCT 1999	9.5	682	93.3	8.4		4532.2
02 NOV 1999	9.9	677	100.3	8.4		4531.2
01 DEC 1999	9.4	673	92.1	8.5		4532.5

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
21 JUL 1999	9.5	676	94.1	8.6		4535.1
11 AUG 1999	9.3	663	89.2	8.4		4533.6
13 SEP 1999	9.4	669	89.1	8.3		4527.2
05 OCT 1999	9.9	672	96.2	8.4		4526.4
02 NOV 1999	9.5	667	91.5	8.4		4525.7
01 DEC 1999	9.5	665	91.0	8.6		4526.2

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
21 JUL 1999	9.4	675	93.2	8.7		4536.5
11 AUG 1999	9.0	670	88.7	8.5		4535.4
13 SEP 1999	9.6	663	94.5	8.7		4533.8
05 OCT 1999	9.5	676	92.0	8.6		4532.9
02 NOV 1999	9.9	672	98.0	8.5		4532.0
01 DEC 1999	9.4	670	91.1	8.7		4532.5

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
21 JUL 1999	9.2	698	94.5	8.7		4533.2
11 AUG 1999	8.8	691	89.1	8.3		4532.0
13 SEP 1999	9.2	683	91.0	8.5		4530.6
05 OCT 1999	9.6	696	98.0	8.3		4529.9
02 NOV 1999	9.2	694	93.9	8.4		4529.3
01 DEC 1999	8.8	691	89.8	8.5		4529.8

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
21 JUL 1999	9.7	688	96.9	8.6		4530.6
11 AUG 1999	9.1	681	91.5	8.3		4529.6
13 SEP 1999	9.3	684	91.6	8.2		4528.0
05 OCT 1999	9.9	685	98.1	8.3		4527.1
02 NOV 1999	9.6	678	94.9	8.3		4526.6
01 DEC 1999	9.4	676	91.2	8.5		4527.5

* Values Exceed Upper Control Limit

MW105

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
21 JUL 1999	9.5	677	93.7	8.6		4529.4
11 AUG 1999	9.2	674	89.5	8.4		4528.2
13 SEP 1999	9.3	678	89.2	8.3		4526.6
05 OCT 1999	10.1	680	97.3	8.4		4525.5
02 NOV 1999	9.7	675	92.1	8.4		4525.2
01 DEC 1999	9.8	676	94.3	8.5		4526.3

* Values Exceed Upper Control Limit

MW106

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
21 JUL 1999	9.8	664	92.3	8.5		4530.1
11 AUG 1999	9.4	659	88.4	8.3		4529.0
13 SEP 1999	9.5	665	87.2	8.2		4527.2
05 OCT 1999	9.8	667	91.4	8.3		4526.3
02 NOV 1999	9.8	660	91.0	8.4		4526.1
01 DEC 1999	9.7	660	89.1	8.5		4527.4

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
21 JUL 1999	10.1	673	94.6	8.6		4528.7
11 AUG 1999	9.7	660	91.0	8.4		4527.2
13 SEP 1999	9.8	650	88.0	8.6		4525.5
05 OCT 1999	9.9	667	91.2	8.5		4524.7
02 NOV 1999	10.1	659	90.7	8.6		4524.1
01 DEC 1999	10.0	658	89.8	8.6		4525.0

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
21 JUL 1999	10.1	660	91.7	8.5		4527.9
11 AUG 1999	9.7	655	88.0	8.2		4526.4
13 SEP 1999	10.1	647	91.0	8.3		4524.5
05 OCT 1999	10.1	663	90.0	8.3		4523.6
02 NOV 1999	10.2	656	89.5	8.5		4522.9
01 DEC 1999	10.4	657	91.8	8.5		4523.8

* Values Exceed Upper Control Limit

MW109

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
21 JUL 1999	9.8	670	91.6	8.6		4528.6
11 AUG 1999	9.3	662	88.1	8.4		4526.9
13 SEP 1999	9.4	654	88.6	8.5		4525.0
05 OCT 1999	9.7	668	91.2	8.4		4523.9
02 NOV 1999	9.6	663	90.6	8.6		4523.5
01 DEC 1999	9.7	662	88.6	7.9		4524.4

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
21 JUL 1999	9.7	665	95.2	8.6		4527.5
11 AUG 1999	9.3	661	90.0	8.3		4525.5
13 SEP 1999	9.2	653	87.7	8.5		4523.4
05 OCT 1999	10.3	669	94.8	8.4		4522.5
02 NOV 1999	9.7	662	92.5	8.5		4522.1
01 DEC 1999	9.6	663	96.8	8.5		4523.0

* Values Exceed Upper Control Limit MW111

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
27 JUL 1999	9.8	679	97.7	8.7		4501.9
24 AUG 1999	9.1	673	93.6	8.6		4498.0
21 SEP 1999	9.5	683	98.8	8.7		4498.4
12 OCT 1999	9.8	667	96.5	8.7		4495.7
10 NOV 1999	9.8	677	96.0	8.7		4499.2
19 DEC 1999	9.7	669	89.4	8.5		4500.4

* Values Exceed Upper Control Limit

MW114

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
27 JUL 1999	9.8	681	99.5	8.5		4512.3
24 AUG 1999	9.0	676	95.5	8.3		4508.8
21 SEP 1999	9.8	685	99.0	8.5		4508.1
12 OCT 1999	9.4	668	97.7	8.4		4506.0
10 NOV 1999	9.2	679	96.8	8.4		4509.8
19 DEC 1999	9.5	681	102.3	8.2		4509.8

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
27 JUL 1999	9.5	678	98.3	8.6		4508.0
24 AUG 1999	9.1	673	95.2	8.5		4503.1
21 SEP 1999	9.5	682	101.1	8.6		4503.0
12 OCT 1999	9.7	665	99.5	8.5		4500.7
10 NOV 1999	9.7	677	103.4	8.5		4504.0
19 DEC 1999	9.5	676	95.2	8.5		4504.8

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	9.5	677	97.0	8.5		4550.7
17 AUG 1999	8.7	665	91.9	8.6		4548.5
20 SEP 1999	9.0	667	92.6	8.5		4547.5
04 OCT 1999	9.1	663	95.8	8.6		4547.1
17 NOV 1999	9.1	674	95.4	8.5		4548.4
16 DEC 1999	8.9	670	91.9	8.6		4548.4

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	9.4	680	101.2	8.5		4555.6
17 AUG 1999	8.8	674	97.2	8.5		4553.8
20 SEP 1999	8.8	668	95.9	8.5		4552.9
04 OCT 1999	8.7	663	95.9	8.6		4552.8
17 NOV 1999	9.1	672	98.6	8.5		4553.7
16 DEC 1999	9.1	665	102.4	8.5		4553.7

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	9.3	673	93.7	8.6		4552.0
17 AUG 1999	8.9	660	91.6	8.6		4549.6
20 SEP 1999	8.8	662	91.6	8.6		4549.0
04 OCT 1999	8.8	662	92.5	8.7		4548.4
17 NOV 1999	9.1	669	93.8	8.6		4549.4
16 DEC 1999	9.1	665	89.9	8.7		4549.4

* Values Exceed Upper Control Limit

4MW-3

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-4

2nd Half,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	9.2	686	105.1	8.4		4560.4
17 AUG 1999	9.0	670	102.0	8.4		4559.0
20 SEP 1999	9.3	675	100.4	8.4		4558.5
04 OCT 1999	8.7	674	99.9	8.5		4558.3
17 NOV 1999	9.0	680	102.2	8.4		4558.8
16 DEC 1999	8.9	675	100.2	8.5		4558.9

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	9.3	683	98.3	8.6		4554.2
17 AUG 1999	8.8	668	95.4	8.5		4554.4
20 SEP 1999	8.8	670	93.3	8.5		4553.5
04 OCT 1999	8.7	666	93.3	8.5		4553.0
17 NOV 1999	9.3	676	97.0	8.5		4552.3
16 DEC 1999	9.4	674	98.0	8.6		4552.2

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	9.1	679	102.1	8.6		4565.8
17 AUG 1999	8.7	663	97.1	8.6		4564.7
20 SEP 1999	8.9	669	96.6	8.5		4564.3
04 OCT 1999	8.4	669	95.7	8.6		4564.2
17 NOV 1999	9.0	676	99.2	8.5		4564.2
16 DEC 1999	8.9	667	97.5	8.6		4563.0

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	9.1	663	88.5	8.9		4557.3
17 AUG 1999	8.7	656	90.9	8.7		4556.5
20 SEP 1999	8.8	667	91.9	8.7		4555.4
04 OCT 1999	8.5	665	91.4	8.8		4555.1
17 NOV 1999	9.0	660	87.4	8.9		4555.4
16 DEC 1999	8.9	666	92.4	8.6		4555.6

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	9.4	689	104.8	8.5		4564.6
17 AUG 1999	8.7	671	99.1	8.5		4563.6
20 SEP 1999	8.9	674	99.9	8.5		4563.4
04 OCT 1999	8.6	673	99.4	8.5		4563.4
17 NOV 1999	8.9	681	101.9	8.4		4563.6
16 DEC 1999	9.0	675	99.7	8.5		4563.3

* Values Exceed Upper Control Limit

4MW-8

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-9 2nd Half,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	9.3	678	99.2	8.4		4559.5
17 AUG 1999	8.6	671	92.9	8.5		4558.4
20 SEP 1999	8.6	668	92.6	8.4		4558.0
04 OCT 1999	8.5	664	94.3	8.5		4557.8
17 NOV 1999	9.0	673	96.7	8.5		4557.9
16 DEC 1999	8.9	663	95.1	8.5		4558.0

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	9.5	683	100.3	8.6		4565.8
17 AUG 1999	8.9	669	96.0	8.6		4565.2
20 SEP 1999	9.3	674	98.9	8.5		4565.2
04 OCT 1999	8.8	671	95.1	8.5		4565.2
17 NOV 1999	9.2	678	97.6	8.5		4565.2
16 DEC 1999	9.0	674	95.6	8.5		4564.8

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	9.9	672	93.2	8.6		4562.0
17 AUG 1999	9.1	655	88.0	8.6		4561.2
20 SEP 1999	9.2	668	95.5	8.5		4560.9
04 OCT 1999	8.8	667	90.1	8.6		4560.8
17 NOV 1999	9.5	671	92.1	8.6		4560.8
16 DEC 1999	9.3	664	90.2	8.6		4560.8

* 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

Well I.D. 4MW-12

2nd Half,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	9.5	683	99.5	8.9		4568.1
17 AUG 1999	8.8	668	94.0	8.8		4568.0
20 SEP 1999	9.3	674	97.4	8.8		4568.1
04 OCT 1999	8.7	673	92.6	8.8		4568.2
17 NOV 1999	9.2	670	100.5	8.8		4567.9
16 DEC 1999	9.1	673	93.8	8.8		4567.7

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	9.4	676	96.4	8.6		4564.0
17 AUG 1999	9.1	666	94.3	8.4		4563.6
20 SEP 1999	9.0	671	92.7	8.4		4563.4
04 OCT 1999	8.8	666	90.9	8.5		4563.3
17 NOV 1999	9.7	677	99.7	8.4		4563.1
16 DEC 1999	9.2	667	93.8	8.5		4563.0

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	9.6	690	106.1	8.4		4570.3
17 AUG 1999	8.9	671	98.7	8.4		4570.3
20 SEP 1999	9.1	681	101.2	8.4		4570.7
04 OCT 1999	8.9	679	99.9	8.5		4570.6
17 NOV 1999	9.1	675	101.1	8.4		4570.3
16 DEC 1999	9.1	678	99.2	8.4		4569.9

* Values Exceed Upper Control Limit

4MW-14

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-15

2nd Half,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	9.5	692	103.1	8.6		4564.2
17 AUG 1999	9.2	674	99.5	8.5		4564.4
20 SEP 1999	9.0	688	99.9	8.4		4564.3
04 OCT 1999	9.0	683	101.4	8.4		4564.2
17 NOV 1999	9.1	692	105.2	8.4		4564.3
16 DEC 1999	9.6	685	103.1	8.5		4564.0

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	8.9	683	104.1	8.6		4571.3
17 AUG 1999	8.6	675	98.8	8.5		4571.9
20 SEP 1999	9.1	670	104.8	8.4		4572.5
04 OCT 1999	8.7	671	102.1	8.5		4571.5
17 NOV 1999	9.0	670	107.9	8.4		4572.2
16 DEC 1999	9.2	674	99.5	8.4		4571.5

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	9.8	680	98.4	8.4		4542.6
17 AUG 1999	9.0	663	92.9	8.5		4566.9
20 SEP 1999	8.7	670	92.4	8.6		4567.1
04 OCT 1999	8.8	676	92.2	8.6		4567.1
17 NOV 1999	9.3	676	95.6	8.5		4566.9
16 DEC 1999	9.3	676	95.2	8.6		4566.4

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	9.7	690	104.9	8.4		4571.4
17 AUG 1999	9.0	673	98.1	8.5		4572.4
20 SEP 1999	9.4	683	103.9	8.6		4572.6
04 OCT 1999	8.8	682	98.0	8.5		4572.6
17 NOV 1999	9.4	676	102.2	8.5		4572.3
16 DEC 1999	9.2	683	98.5	8.5		4571.7

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	9.4	679	100.0	8.5		4567.0
17 AUG 1999	9.1	665	95.0	8.4		4567.1
20 SEP 1999	8.8	676	95.0	8.5		4567.2
04 OCT 1999	8.8	673	93.5	8.5		4567.2
17 NOV 1999	9.5	678	97.1	8.3		4567.0
16 DEC 1999	9.4	676	97.1	8.4		4566.7

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	8.9	685	105.9	8.6		4573.8
17 AUG 1999	8.6	672	99.5	8.4		4575.0
20 SEP 1999	8.2	680	98.1	8.5		4575.1
04 OCT 1999	8.2	680	98.5	8.5		4574.9
17 NOV 1999	9.0	676	103.9	8.4		4575.5
16 DEC 1999	8.9	682	103.0	8.5		4574.6

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	9.5	679	99.2	8.5		4567.8
17 AUG 1999	9.1	660	94.6	8.4		4568.1
20 SEP 1999	9.0	670	95.6	8.5		4568.3
04 OCT 1999	8.8	667	92.9	8.5		4568.3
17 NOV 1999	9.2	672	99.5	8.3		4568.0
16 DEC 1999	9.3	669	94.2	8.4		4567.7

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	9.1	685	101.8	8.3		4573.5
17 AUG 1999	8.6	676	98.5	8.4		4574.8
20 SEP 1999	8.8	682	99.4	8.5		4575.5
04 OCT 1999	8.4	678	97.2	8.5		4575.4
17 NOV 1999	9.0	675	100.9	8.4		4575.1
16 DEC 1999	8.9	681	98.1	8.5		4574.2

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	9.2	684	100.9	8.5		4569.5
17 AUG 1999	8.9	671	96.1	8.3		4569.9
20 SEP 1999	8.5	678	94.3	8.4		4570.4
04 OCT 1999	8.9	678	102.0	8.4		4570.4
17 NOV 1999	9.2	682	99.4	8.3		4570.0
16 DEC 1999	9.0	677	95.6	8.4		4569.7

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	9.3	683	102.8	8.5		4572.8
17 AUG 1999	9.0	670	95.2	8.4		4573.8
20 SEP 1999	8.5	679	94.8	8.5		4573.5
04 OCT 1999	8.6	677	95.4	8.5		4574.4
17 NOV 1999	9.0	672	100.2	8.4		4574.1
16 DEC 1999	8.9	676	95.8	8.5		4573.3

* Values Exceed Upper Control Limit

4MW-24

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-25

2nd Half,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	9.2	690	98.8	8.2		4571.4
17 AUG 1999	8.8	678	96.6	8.4		4572.7
20 SEP 1999	8.7	688	96.4	8.5		4572.5
04 OCT 1999	8.6	683	96.8	8.5		4572.5
17 NOV 1999	9.2	685	100.2	8.4		4572.3
16 DEC 1999	9.4	683	101.9	8.4		4571.7

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
13 JUL 1999	7.8	838	94.9	8.5		4608.9
28 JUL 1999	7.9	821	96.8	8.2		4612.1
10 AUG 1999	7.7	762	94.5	8.3		4614.2
25 AUG 1999	7.7	755	94.3	8.3		4614.6
08 SEP 1999	8.5	746	102.1	8.4		4616.0
21 SEP 1999	7.8	768	95.5	8.2		4615.9
05 OCT 1999	7.5	794	94.3	8.3		4615.4
19 OCT 1999	7.8	827	94.4	8.5		4615.[illegible]
02 NOV 1999	7.4	850	91.4	8.3		4614.[illegible]
16 NOV 1999	7.3	851	90.3	8.3		4613.9
30 NOV 1999	7.7	851	91.7	8.4		4612.9
14 DEC 1999	7.0	861	88.0	8.5		4612.6
28 DEC 1999	7.0	848	87.3	8.3		4611.9

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
14 JUL 1999	7.6	813	93.3	8.4		4596.2
28 JUL 1999	8.6	812	101.0	8.3		4604.7
10 AUG 1999	7.7	807	94.8	8.3		4607.1
25 AUG 1999	7.5	801	93.9	8.3		4607.4
09 SEP 1999	7.6	807	94.7	8.1		4609.6
21 SEP 1999	7.5	807	92.7	8.3		4608.4
05 OCT 1999	8.0	809	97.4	8.3		4608.0
19 OCT 1999	8.1	807	98.2	8.4		4607.4
02 NOV 1999	7.8	813	97.1	8.3		4606.2
16 NOV 1999	8.0	810	98.7	8.3		4605.2
30 NOV 1999	8.1	805	94.7	8.4		4604.2
14 DEC 1999	7.8	807	95.2	8.3		4603.6
28 DEC 1999	8.1	809	94.2	8.3		4602.8

* Values Exceed Upper Control Limit

5MW2

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
14 JUL 1999	8.4	741	102.8	8.3		4609.8
28 JUL 1999	8.6	750	103.9	8.3		4612.2
10 AUG 1999	7.6	751	96.6	8.2		4614.1
25 AUG 1999	7.7	741	96.7	8.2		4614.5
09 SEP 1999	8.0	751	98.0	8.1		4615.9
21 SEP 1999	7.8	752	95.9	8.2		4615.8
05 OCT 1999	8.3	750	99.5	8.2		4615.5
19 OCT 1999	8.4	748	101.3	8.3		4615.[illegible]
02 NOV 1999	8.5	754	103.3	8.2		4615.[illegible]
16 NOV 1999	8.3	749	101.1	8.3		4614.1
30 NOV 1999	8.5	746	97.7	8.3		4613.4
14 DEC 1999	8.1	741	97.4	8.3		4612.9
28 DEC 1999	8.3	741	97.6	8.2		4612.2

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
14 JUL 1999	8.3	730	103.2	8.5		4601.7
28 JUL 1999	8.7	727	110.7	8.4		4607.9
10 AUG 1999	8.2	725	103.2	8.4		4610.5
25 AUG 1999	7.9	721	102.5	8.3		4610.5
09 SEP 1999	8.2	723	104.8	8.3		4612.2
21 SEP 1999	8.2	722	103.5	8.3		4611.6
05 OCT 1999	8.6	724	105.9	8.4		4611.2
19 OCT 1999	8.9	722	108.8	8.5		4611.0
02 NOV 1999	8.6	726	107.6	8.4		4610.1
16 NOV 1999	8.8	722	108.6	8.4		4609.5
30 NOV 1999	8.9	719	104.3	8.4		4608.2
14 DEC 1999	8.8	719	103.8	8.4		4607.6
28 DEC 1999	8.7	718	103.2	8.4		4607.2

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
13 JUL 1999	7.5	866	94.7	8.3		4609.1
28 JUL 1999	6.5	936	89.3	8.3		4610.6
10 AUG 1999	6.3	928	84.9	8.1		4612.3
25 AUG 1999	6.4	913	85.7	8.1		4612.5
08 SEP 1999	6.6	895	86.2	8.2		4613.8
21 SEP 1999	6.5	896	86.6	8.2		4614.2
05 OCT 1999	6.7	884	90.6	8.2		4614.0
19 OCT 1999	7.0	882	91.8	8.3		4614.0
02 NOV 1999	7.0	878	91.7	8.2		4613.3
16 NOV 1999	7.1	861	97.3	8.2		4612.7
30 NOV 1999	7.6	839	91.6	8.3		4612.0
14 DEC 1999	7.3	837	91.5	8.3		4611.5
28 DEC 1999	7.3	837	91.8	8.2		4610.8

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
14 JUL 1999	8.8	683	108.7	8.6		4603.5
28 JUL 1999	9.1	686	114.5	8.5		4608.5
10 AUG 1999	8.7	685	108.2	8.4		4610.6
25 AUG 1999	8.5	684	107.7	8.4		4610.9
09 SEP 1999	8.8	684	109.3	8.4		4612.5
21 SEP 1999	9.2	687	113.5	8.4		4612.0
05 OCT 1999	9.2	686	111.9	8.5		4611.6
19 OCT 1999	9.2	687	113.0	8.6		4611.6
02 NOV 1999	8.9	692	110.6	8.5		4610.6
16 NOV 1999	9.1	692	110.6	8.4		4610.0
30 NOV 1999	9.3	686	109.0	8.5		4608.9
14 DEC 1999	9.0	686	109.5	8.5		4608.5
28 DEC 1999	9.0	691	107.1	8.5		4607.6

* Values Exceed Upper Control Limit

5MW6

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
13 JUL 1999	7.0	903	91.8	8.6		4608.0
29 JUL 1999	6.6	921	93.7	8.6		4608.8
10 AUG 1999	6.3	908	87.8	8.6		4610.5
25 AUG 1999	6.4	910	87.7	8.5		4610.5
09 SEP 1999	6.7	898	89.4	8.6		4611.7
21 SEP 1999	6.5	906	87.2	8.5		4612.2
05 OCT 1999	6.7	903	92.8	8.5		4612.2
19 OCT 1999	7.0	899	92.2	8.7		4612.0
02 NOV 1999	6.9	899	91.9	8.5		4611.[illegible]
16 NOV 1999	7.2	891	93.5	8.5		4611.0
30 NOV 1999	7.0	883	89.8	8.6		4610.0
14 DEC 1999	6.9	882	90.7	8.6		4609.8
28 DEC 1999	6.9	883	89.3	8.6		4608.9

* Values Exceed Upper Control Limit

5MW7

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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							
14 JUL 1999	9.3	691	106.3		8.5		4605.0
28 JUL 1999	9.1	699	113.6		8.4		4608.8
10 AUG 1999	9.4	734	112.7		8.3		4611.0
25 AUG 1999	9.1	754	113.8		8.2		4611.0
09 SEP 1999	9.8	822	121.3		8.1		4612.4
21 SEP 1999	10.7	844	125.1	*	8.2		4612.3
05 OCT 1999	11.6	808	131.0	*	8.2		4612.1
19 OCT 1999	12.9	800	138.4	*	8.3		4612.2
02 NOV 1999	12.9	788	138.3	*	8.2		4611.3
16 NOV 1999	12.9	773	138.0	*	8.2		4610.6
30 NOV 1999	13.2	769	135.2	*	8.2		4609.4
14 DEC 1999	13.5	781	141.4	*	8.2		4609.3
28 DEC 1999	13.5	795	140.0	*	8.1		4608.5

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
14 JUL 1999	8.5	720	99.3	8.5		4605.9
28 JUL 1999	9.3	733	107.9	8.4		4608.6
10 AUG 1999	11.4	756	108.5	8.4		4610.7
25 AUG 1999	12.6	764	114.5	8.3		4610.8
09 SEP 1999	13.7	802	123.3	8.2		4612.3
21 SEP 1999	12.2	793	122.2	8.3		4612.3
05 OCT 1999	11.2	765	118.1	8.3		4612.2
19 OCT 1999	10.8	756	116.9	8.5		4612.[illegible]
02 NOV 1999	9.4	743	110.2	8.4		4611.[illegible]
16 NOV 1999	8.8	733	107.2	8.4		4610.9
30 NOV 1999	9.2	722	107.6	8.5		4609.7
14 DEC 1999	8.7	723	104.0	8.4		4609.3
28 DEC 1999	8.9	724	102.8	8.4		4608.6

* Values Exceed Upper Control Limit

5MW10

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
14 JUL 1999	8.5	1149	107.9	8.2		4601.2
28 JUL 1999	8.6	1128	113.4	8.1		4604.0
10 AUG 1999	8.0	1221	110.3	8.0		4605.7
25 AUG 1999	8.0	1194	109.9	8.0		4607.3
09 SEP 1999	8.1	1039	105.8	8.0		4607.2
21 SEP 1999	7.9	1240	111.0	8.0		4607.6
05 OCT 1999	8.6	1125	111.9	8.0		4607.2
19 OCT 1999	8.7	1118	113.2	8.2		4607.3
02 NOV 1999	8.3	1212	113.9	8.1		4606.4
16 NOV 1999	8.4	1199	114.4	8.1		4605.7
30 NOV 1999	8.5	1087	107.8	8.1		4604.8
14 DEC 1999	8.5	1055	109.2	8.1		4604.5
28 DEC 1999	8.6	1207	112.3	8.0		4603.6

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
14 JUL 1999	8.2	691	101.5	8.5		4601.2
28 JUL 1999	8.8	697	109.6	8.4		4603.7
10 AUG 1999	8.9	697	108.0	8.4		4605.5
25 AUG 1999	8.5	684	104.4	8.3		4605.5
09 SEP 1999	8.6	695	106.4	8.2		4606.9
21 SEP 1999	8.2	699	102.9	8.4		4607.5
05 OCT 1999	8.9	694	105.2	8.4		4607.4
19 OCT 1999	8.9	694	106.9	8.5		4607.2
02 NOV 1999	8.6	695	105.8	8.4		4606.4
16 NOV 1999	8.8	693	106.9	8.4		4605.7
30 NOV 1999	8.8	689	103.3	8.4		4604.5
14 DEC 1999	8.7	689	103.7	8.4		4604.5
28 DEC 1999	9.1	691	106.2	8.4		4603.6

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
14 JUL 1999	8.2	753	96.5	8.4		4601.7
28 JUL 1999	8.1	784	102.1	8.3		4603.8
10 AUG 1999	7.7	777	96.9	8.2		4605.5
25 AUG 1999	7.6	758	97.2	8.2		4605.5
09 SEP 1999	7.7	766	103.8	8.1		4606.8
21 SEP 1999	7.7	769	98.4	8.3		4607.1
05 OCT 1999	8.2	759	100.4	8.3		4607.4
19 OCT 1999	8.3	756	102.1	8.4		4607.4
02 NOV 1999	8.2	753	102.3	8.3		4606.3
16 NOV 1999	8.1	740	101.2	8.4		4605.9
30 NOV 1999	8.3	737	99.3	8.4		4605.0
14 DEC 1999	8.3	739	99.8	8.3		4604.8
28 DEC 1999	8.3	741	99.6	8.3		4603.8

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
14 JUL 1999	6.4	913	92.9	8.3		4600.4
28 JUL 1999	7.0	923	93.4	8.3		4602.0
10 AUG 1999	6.8	921	88.4	8.2		4603.8
25 AUG 1999	6.8	889	90.2	8.2		4603.7
09 SEP 1999	6.9	883	92.5	8.1		4604.9
21 SEP 1999	6.9	880	90.8	8.2		4605.4
05 OCT 1999	7.2	869	93.8	8.3		4605.0
20 OCT 1999	7.5	863	94.3	8.4		4605.0
02 NOV 1999	7.3	859	94.9	8.3		4605.1
16 NOV 1999	7.8	847	100.0	8.3		4604.8
30 NOV 1999	7.5	848	91.3	8.3		4603.4
14 DEC 1999	7.3	849	92.0	8.3		4603.0
28 DEC 1999	7.6	847	92.9	8.3		4602.2

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
13 JUL 1999	6.9	932	91.2	8.4		4604.7
28 JUL 1999	6.4	951	88.4	8.4		4606.0
10 AUG 1999	6.1	933	85.6	8.3		4607.7
25 AUG 1999	6.4	926	86.3	8.2		4607.6
08 SEP 1999	6.7	883	88.2	8.4		4608.9
21 SEP 1999	7.1	892	93.6	8.3		4609.4
05 OCT 1999	6.7	886	91.4	8.3		4609.6
20 OCT 1999	7.0	886	91.8	8.5		4609.6
02 NOV 1999	7.0	890	92.7	8.3		4609.0
16 NOV 1999	7.0	883	92.0	8.4		4608.2
30 NOV 1999	6.9	874	92.4	8.4		4607.3
14 DEC 1999	7.1	871	95.7	8.4		4607.1
28 DEC 1999	7.3	874	90.8	8.4		4606.0

* Values Exceed Upper Control Limit

5MW20

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
14 JUL 1999	8.3	674	101.3	8.6		4582.1
29 JUL 1999	8.6	674	108.1	8.6		4589.3
10 AUG 1999	7.9	676	101.8	8.5		4591.6
25 AUG 1999	8.1	673	98.0	8.5		4593.0
09 SEP 1999	8.5	664	102.1	8.4		4595.0
21 SEP 1999	7.9	667	98.5	8.6		4594.0
05 OCT 1999	8.5	670	102.0	8.6		4593.2
19 OCT 1999	8.3	666	103.3	8.7		4593.0
02 NOV 1999	8.5	674	105.9	8.6		4591.6
17 NOV 1999	8.1	670	102.5	8.6		4590.5
30 NOV 1999	8.1	660	99.3	8.6		4588.6
14 DEC 1999	8.1	668	100.1	8.6		4588.2
28 DEC 1999	8.4	670	101.0	8.6		4588.2

* Values Exceed Upper Control Limit

5MW30A

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
14 JUL 1999	8.4	665	98.9	8.6		4580.4
29 JUL 1999	8.2	667	105.0	8.6		4589.6
10 AUG 1999	8.0	672	101.7	8.4		4591.7
25 AUG 1999	8.2	671	100.4	8.4		4593.1
09 SEP 1999	7.9	665	102.5	8.3		4593.7
21 SEP 1999	7.8	672	101.0	8.5		4594.2
05 OCT 1999	8.3	668	103.9	8.5		4592.1
19 OCT 1999	8.3	668	105.4	8.6		4592.8
02 NOV 1999	8.1	674	103.7	8.5		4590.7
17 NOV 1999	8.0	671	103.9	8.5		4590.8
30 NOV 1999	8.3	662	101.8	8.6		4588.8
14 DEC 1999	8.1	659	102.0	8.5		4588.8
28 DEC 1999	8.5	671	101.9	8.5		4588.4

* Values Exceed Upper Control Limit

5MW31

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
13 JUL 1999	8.5	691	109.4	8.6		4578.7
28 JUL 1999	8.3	692	107.8	8.4		4589.5
10 AUG 1999	7.7	681	102.8	8.5		4591.8
23 AUG 1999	7.7	683	101.8	8.6		4593.1
07 SEP 1999	7.9	669	103.7	8.6		4595.1
20 SEP 1999	7.7	680	102.2	8.6		4594.1
04 OCT 1999	8.2	677	109.3	8.5		4593.5
19 OCT 1999	8.4	674	106.1	8.6		4593
02 NOV 1999	8.2	680	105.5	8.5		4590
16 NOV 1999	8.1	683	106.2	8.6		4590.5
30 NOV 1999	7.8	674	101.7	8.6		4588.7
14 DEC 1999	8.1	671	103.7	8.6		4588.0
27 DEC 1999	8.5	672	108.7	8.7		4588.1

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
14 JUL 1999	8.6	668	105.6	8.5		4581.9
29 JUL 1999	8.3	672	104.6	8.5		4590.5
10 AUG 1999	8.3	677	101.6	8.3		4592.2
25 AUG 1999	8.1	674	99.4	8.4		4593.7
09 SEP 1999	8.0	664	101.1	8.2		4595.4
21 SEP 1999	8.0	675	100.0	8.5		4594.8
05 OCT 1999	8.5	668	102.7	8.4		4594.2
19 OCT 1999	8.3	669	102.9	8.5		4593.7
02 NOV 1999	8.2	670	102.5	8.4		4592.4
17 NOV 1999	8.2	671	103.8	8.5		4591.5
30 NOV 1999	8.4	665	100.0	8.5		4589.7
14 DEC 1999	8.7	662	106.2	8.5		4589.7
28 DEC 1999	8.5	673	99.8	8.4		4589.3

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
13 JUL 1999	8.6	694	111.6	8.5		4576.0
28 JUL 1999	8.3	695	110.9	8.3		4590.2
10 AUG 1999	7.7	688	104.5	8.4		4592.5
23 AUG 1999	7.7	687	105.8	8.4		4593.9
07 SEP 1999	7.8	679	106.9	8.5		4595.8
20 SEP 1999	7.7	686	105.0	8.4		4594.9
04 OCT 1999	8.3	683	110.4	8.5		4594.3
19 OCT 1999	8.6	679	110.9	8.5		4593.5
02 NOV 1999	8.2	686	108.6	8.4		4591.[illegible]
16 NOV 1999	8.2	684	108.3	8.5		4590.7
30 NOV 1999	7.8	680	104.9	8.5		4589.1
14 DEC 1999	8.1	673	106.6	8.5		4588.4
27 DEC 1999	8.2	678	105.6	8.5		4588.4

* Values Exceed Upper Control Limit

5MW34

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
14 JUL 1999	8.3	671	100.2	8.6		4582.8
29 JUL 1999	8.3	673	105.3	8.6		4591.9
10 AUG 1999	8.3	678	102.1	8.4		4593.0
25 AUG 1999	8.0	675	101.3	8.5		4594.9
09 SEP 1999	7.9	668	102.3	8.3		4596.3
21 SEP 1999	7.8	677	99.3	8.6		4595.2
05 OCT 1999	8.3	671	104.5	8.5		4593.4
19 OCT 1999	8.3	670	105.7	8.6		4593.9
02 NOV 1999	8.1	674	103.9	8.5		4591.7
17 NOV 1999	8.2	672	104.9	8.6		4591.6
30 NOV 1999	8.3	666	101.5	8.6		4590.1
14 DEC 1999	8.2	664	102.0	8.6		4589.6
28 DEC 1999	8.4	674	101.8	8.5		4589.9

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
13 JUL 1999	8.6	695	113.6	8.5		4579.7
28 JUL 1999	8.3	698	112.7	8.3		4591.5
10 AUG 1999	7.9	694	107.2	8.5		4593.1
23 AUG 1999	7.6	690	105.4	8.5		4595.2
07 SEP 1999	7.9	682	108.3	8.5		4596.8
20 SEP 1999	7.8	689	106.8	8.5		4595.6
04 OCT 1999	8.4	686	107.4	8.3		4595.0
19 OCT 1999	8.6	682	110.4	8.5		4594.[illegible]
02 NOV 1999	8.2	688	108.7	8.5		4592.[illegible]
16 NOV 1999	8.4	687	109.5	8.6		4591.4
30 NOV 1999	8.1	682	105.9	8.6		4589.4
14 DEC 1999	8.2	673	106.9	8.6		4588.8
27 DEC 1999	8.7	678	113.0	8.6		4588.9

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
14 JUL 1999	7.9	669	102.0	8.6		4584.7
29 JUL 1999	8.1	674	108.8	8.6		4593.0
10 AUG 1999	8.0	673	104.2	8.4		4594.4
25 AUG 1999	8.1	674	101.9	8.4		4596.0
09 SEP 1999	8.0	667	105.1	8.3		4597.1
21 SEP 1999	7.9	674	103.9	8.5		4595.8
05 OCT 1999	8.4	669	107.2	8.5		4595.2
19 OCT 1999	8.2	668	106.2	8.6		4595.1
02 NOV 1999	8.2	673	106.9	8.5		4593.5
17 NOV 1999	8.1	669	106.5	8.5		4592.3
30 NOV 1999	8.3	664	103.3	8.6		4590.7
14 DEC 1999	8.1	661	104.6	8.6		4588.5
28 DEC 1999	8.3	672	103.3	8.5		4590.5

* Values Exceed Upper Control Limit

5MW37

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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							
13 JUL 1999	13.0	791	157.7	*	8.3		4577.6
28 JUL 1999	12.7	783	149.5	*	8.1		4592.6
10 AUG 1999	11.6	773	142.1	*	8.3		4594.3
23 AUG 1999	11.7	774	143.5	*	8.2		4596.4
07 SEP 1999	12.1	767	147.7	*	8.2		4598.4
20 SEP 1999	12.1	785	146.8	*	8.2		4596.6
05 OCT 1999	12.2	774	155.7	*	8.2		4596.0
19 OCT 1999	12.0	762	143.7	*	8.3		4595.2
02 NOV 1999	12.3	773	145.6	*	8.2		4592.4
16 NOV 1999	11.8	765	143.3	*	8.3		4591.7
30 NOV 1999	12.1	764	142.3	*	8.3		4589.9
14 DEC 1999	12.4	756	143.6	*	8.3		4589.0
27 DEC 1999	12.1	761	149.9	*	8.3		4589.1

* Values Exceed Upper Control Limit

5MW38

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
14 JUL 1999	7.8	676	100.9	8.5		4587.8
29 JUL 1999	8.1	678	106.9	8.5		4595.9
11 AUG 1999	7.9	679	100.3	8.4		4595.4
25 AUG 1999	8.1	678	100.8	8.4		4597.6
09 SEP 1999	7.8	670	101.7	8.3		4598.0
21 SEP 1999	7.8	680	101.0	8.5		4595.5
05 OCT 1999	8.2	674	103.4	8.5		4595.1
19 OCT 1999	8.2	673	106.8	8.6		4595.4
02 NOV 1999	8.2	676	106.5	8.5		4593.1
17 NOV 1999	8.1	679	105.0	8.5		4591.9
30 NOV 1999	8.2	667	103.1	8.5		4590.0
14 DEC 1999	8.3	668	105.4	8.5		4590.2
29 DEC 1999	8.8	670	110.8	8.5		4590.4

* Values Exceed Upper Control Limit

5MW39A

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
13 JUL 1999	8.8	681	109.8	8.6		4580.6
28 JUL 1999	8.6	687	106.8	8.5		4593.4
10 AUG 1999	8.1	685	102.6	8.6		4595.1
23 AUG 1999	8.0	677	101.3	8.5		4597.3
07 SEP 1999	8.2	665	104.8	8.6		4599.4
20 SEP 1999	8.0	676	102.7	8.5		4597.1
05 OCT 1999	8.5	677	104.9	8.5		4596.8
19 OCT 1999	8.7	673	105.1	8.6		4595.7
02 NOV 1999	8.5	678	103.3	8.5		4592.5
16 NOV 1999	8.4	677	103.3	8.6		4592.1
30 NOV 1999	8.6	674	104.4	8.6		4589.9
14 DEC 1999	8.4	665	101.0	8.6		4589.3
27 DEC 1999	8.3	668	100.3	8.6		4589.2

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
14 JUL 1999	7.9	679	104.0	8.5		4592.5
29 JUL 1999	8.2	678	109.7	8.5		4598.5
11 AUG 1999	7.8	680	104.8	8.3		4598.3
25 AUG 1999	7.9	681	102.3	8.2		4599.7
09 SEP 1999	7.9	675	106.1	8.1		4599.5
21 SEP 1999	8.0	683	107.5	8.3		4597.0
05 OCT 1999	8.4	675	107.7	8.3		4596.6
19 OCT 1999	8.4	675	108.9	8.4		4597.4
02 NOV 1999	8.3	683	109.3	8.4		4595.7
17 NOV 1999	8.7	678	113.7	8.4		4594.5
30 NOV 1999	8.4	672	105.8	8.4		4592.5
14 DEC 1999	8.1	670	106.1	8.4		4593.2
29 DEC 1999	8.3	674	105.7	8.4		4593.3

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
13 JUL 1999	8.7	684	110.9	8.5		4584.4
28 JUL 1999	8.6	695	111.2	8.3		4595.7
10 AUG 1999	8.3	693	105.9	8.4		4596.7
23 AUG 1999	7.9	685	105.5	8.4		4599.7
07 SEP 1999	8.0	679	107.9	8.5		4602.2
20 SEP 1999	8.0	685	106.2	8.4		4598.6
04 OCT 1999	8.6	680	110.8	8.5		4598.3
19 OCT 1999	8.9	681	110.7	8.5		4597[illegible]
02 NOV 1999	8.6	681	108.3	8.5		4593.[illegible]
16 NOV 1999	8.6	674	107.1	8.5		4592.8
30 NOV 1999	8.5	675	105.6	8.5		4590.7
14 DEC 1999	8.7	662	105.1	8.5		4589.9
27 DEC 1999	8.5	667	103.8	8.5		4589.9

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
14 JUL 1999	7.7	686	107.8	8.7		4594.8
29 JUL 1999	8.0	684	112.5	8.6		4600.7
11 AUG 1999	7.7	685	107.3	8.4		4600.3
25 AUG 1999	7.9	686	106.0	8.5		4601.2
09 SEP 1999	8.2	684	114.5	8.4		4599.9
21 SEP 1999	7.6	687	106.7	8.5		4596.4
05 OCT 1999	8.1	679	110.6	8.5		4596.7
19 OCT 1999	8.0	683	110.3	8.6		4598.0
02 NOV 1999	8.0	690	110.4	8.5		4596.4
17 NOV 1999	8.1	682	111.3	8.5		4595.2
30 NOV 1999	8.2	676	106.7	8.6		4593.3
14 DEC 1999	7.9	675	108.0	8.5		4594.2
29 DEC 1999	8.2	679	109.5	8.5		4594.5

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
13 JUL 1999	9.0	680	108.7	8.6		4584.3
28 JUL 1999	8.8	683	106.6	8.4		4595.2
10 AUG 1999	8.4	684	102.5	8.5		4595.4
23 AUG 1999	8.2	677	101.7	8.5		4600.7
07 SEP 1999	8.3	668	106.2	8.5		4602.4
20 SEP 1999	7.9	680	103.8	8.5		4597.9
04 OCT 1999	8.3	678	108.4	8.4		4598.0
19 OCT 1999	8.5	678	107.9	8.6		4596.4
02 NOV 1999	8.8	671	107.5	8.7		4591.[illegible]
16 NOV 1999	8.6	670	103.4	8.5		4590.7
30 NOV 1999	8.7	666	108.2	8.6		4588.5
14 DEC 1999	8.6	656	102.7	8.6		4587.3
27 DEC 1999	8.5	663	101.3	8.5		4587.8

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
14 JUL 1999	8.2	688	115.0	8.4		4597.0
29 JUL 1999	7.8	684	113.2	8.4		4602.6
11 AUG 1999	7.6	684	108.4	8.3		4603.8
25 AUG 1999	7.8	685	107.6	8.4		4604.1
09 SEP 1999	7.6	686	109.5	8.3		4601.9
21 SEP 1999	7.5	688	107.4	8.4		4597.0
05 OCT 1999	8.4	681	116.8	8.4		4597.2
19 OCT 1999	8.0	683	112.2	8.5		4599.3
02 NOV 1999	7.8	686	110.5	8.4		4597.2
17 NOV 1999	8.0	683	111.8	8.4		4595.6
30 NOV 1999	8.6	677	110.6	8.5		4594.5
14 DEC 1999	8.4	675	110.0	8.4		4595.3
29 DEC 1999	8.8	678	114.6	8.4		4595.4

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
13 JUL 1999	8.7	672	108.6	8.5		4586.7
28 JUL 1999	8.5	685	106.3	8.2		4595.6
10 AUG 1999	8.0	683	102.4	8.3		4595.8
25 AUG 1999	8.1	683	104.5	8.3		4605.8
08 SEP 1999	8.0	689	107.3	8.5		4606.0
21 SEP 1999	7.7	692	106.3	8.4		4599.3
05 OCT 1999	7.9	693	109.6	8.4		4600.2
19 OCT 1999	8.2	690	111.6	8.5		4596.[illegible]
02 NOV 1999	8.2	678	106.0	8.4		4586.[illegible]
16 NOV 1999	8.4	677	105.1	8.5		4587.8
30 NOV 1999	8.9	671	108.5	8.5		4586.0
14 DEC 1999	8.5	660	101.7	8.4		4583.6
28 DEC 1999	8.5	664	102.5	8.4		4584.3

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
14 JUL 1999	8.0	688	115.1	8.4		4602.9
29 JUL 1999	7.9	689	116.0	8.4		4606.5
11 AUG 1999	7.5	687	109.2	8.3		4608.7
25 AUG 1999	7.7	687	108.3	8.4		4614.5
09 SEP 1999	7.5	686	108.7	8.2		4612.5
21 SEP 1999	7.6	694	109.9	8.4		4605.9
05 OCT 1999	8.0	682	112.9	8.3		4606.1
19 OCT 1999	8.0	684	113.4	8.4		4606.8
02 NOV 1999	7.7	693	110.8	8.4		4604.5
17 NOV 1999	8.0	685	113.7	8.4		4603.0
30 NOV 1999	8.0	681	109.0	8.4		4601.7
14 DEC 1999	7.8	680	109.4	8.4		4602.5
29 DEC 1999	8.1	681	110.3	8.4		4601.7

* Values Exceed Upper Control Limit

5MW47B

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
13 JUL 1999	8.7	684	121.9	8.4		4596.7
28 JUL 1999	8.4	690	121.8	8.3		4601.8
10 AUG 1999	8.2	682	117.9	8.3		4599.8
25 AUG 1999	8.0	685	111.7	8.4		4608.5
08 SEP 1999	8.1	676	112.8	8.4		4608.0
21 SEP 1999	8.8	660	112.4	8.4.		4598.8
05 OCT 1999	8.8	670	132.8	8.5		4599.8
19 OCT 1999	11.1	570	218.4 *	8.5		4595
02 NOV 1999	9.2	647	150.8 *	8.3		4587
16 NOV 1999	9.7	637	162.2 *	8.4		4587.3
30 NOV 1999	9.8	632	161.2 *	8.4		4585.4
14 DEC 1999	10.1	624	164.2 *	8.4		4584.0
28 DEC 1999	9.3	631	155.8 *	8.4		4584.3

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
14 JUL 1999	8.0	690	114.8	8.4		4605.2
29 JUL 1999	8.0	693	114.6	8.4		4607.6
11 AUG 1999	7.6	688	109.0	8.3		4610.1
25 AUG 1999	7.6	689	112.6	8.3		4617.8
09 SEP 1999	7.7	688	110.6	8.2		4613.8
21 SEP 1999	7.7	696	110.2	8.3		4607.3
05 OCT 1999	8.1	682	111.9	8.3		4607.4
19 OCT 1999	8.2	685	114.2	8.4		4607.6
02 NOV 1999	7.9	691	111.7	8.4		4604.8
17 NOV 1999	7.9	685	112.4	8.4		4603.0
30 NOV 1999	8.1	680	109.0	8.4		4602.0
14 DEC 1999	7.9	683	110.1	8.4		4602.6
29 DEC 1999	8.1	680	110.7	8.4		4601.6

* Values Exceed Upper Control Limit

5MW49

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
13 JUL 1999	8.7	685	116.6	8.4		4596.8
28 JUL 1999	8.4	699	114.8	8.3		4601.0
10 AUG 1999	7.8	687	108.5	8.3		4599.6
25 AUG 1999	8.1	692	107.2	8.3		4606.4
08 SEP 1999	8.4	696	111.4	8.5		4607.3
21 SEP 1999	8.2	700	111.3	8.4		4596.9
05 OCT 1999	8.1	697	114.3	8.4		4597.3
19 OCT 1999	8.4	694	114.0	8.5		4594.3
02 NOV 1999	8.3	694	113.0	8.4		4588.[illegible]
16 NOV 1999	8.5	691	112.3	8.4		4588.1
30 NOV 1999	8.4	682	109.3	8.4		4586.3
14 DEC 1999	8.5	670	108.0	8.4		4585.0
28 DEC 1999	8.4	672	106.2	8.4		4585.4

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
14 JUL 1999	8.0	690	113.6	8.3		4608.7
29 JUL 1999	7.8	694	113.7	8.4		4610.5
11 AUG 1999	7.6	689	108.9	8.2		4612.2
25 AUG 1999	8.1	689	106.2	8.2		4617.7
09 SEP 1999	7.5	690	108.6	8.1		4616.2
21 SEP 1999	7.6	696	109.5	8.3		4611.0
05 OCT 1999	8.1	690	112.5	8.3		4610.3
19 OCT 1999	8.0	682	112.2	8.3		4610.2
02 NOV 1999	7.8	690	111.1	8.3		4608.3
17 NOV 1999	7.9	687	112.0	8.3		4606.8
30 NOV 1999	7.9	681	108.5	8.4		4605.3
14 DEC 1999	8.2	681	114.2	8.3		4605.9
29 DEC 1999	8.0	682	109.7	8.3		4605.4

* Values Exceed Upper Control Limit

5MW51

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
13 JUL 1999	9.3	696	119.6	8.4		4595.1
28 JUL 1999	9.1	707	118.6	8.2		4602.1
10 AUG 1999	8.8	704	112.2	8.3		4599.0
25 AUG 1999	9.1	701	110.9	8.2		4604.7
08 SEP 1999	9.3	710	118.9	8.4		4608.1
21 SEP 1999	8.8	707	111.6	8.3		4599.2
05 OCT 1999	9.0	702	119.1	8.3		4598.9
19 OCT 1999	9.1	702	116.0	8.5		4597.0
02 NOV 1999	9.1	703	116.2	8.3		4592.[illegible]
16 NOV 1999	9.0	701	115.3	8.3		4591.8
30 NOV 1999	9.0	694	116.8	8.4		4589.9
14 DEC 1999	8.5	685	110.3	8.4		4588.9
28 DEC 1999	8.7	684	112.8	8.3		4589.2

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
14 JUL 1999	8.0	693	114.1	8.4		4609.9
29 JUL 1999	8.1	694	115.8	8.4		4610.7
11 AUG 1999	7.6	692	109.1	8.3		4612.6
25 AUG 1999	8.0	692	108.2	8.3		4617.4
09 SEP 1999	7.7	695	111.6	8.2		4616.6
21 SEP 1999	7.7	698	110.2	8.3		4610.8
05 OCT 1999	8.2	689	112.1	8.3		4610.1
19 OCT 1999	8.2	686	112.6	8.4		4609.8
03 NOV 1999	8.1	693	114.1	8.4		4607.8
17 NOV 1999	8.2	693	113.4	8.3		4606.4
30 NOV 1999	8.4	690	110.7	8.4		4605.1
14 DEC 1999	8.4	684	111.6	8.3		4605.4
29 DEC 1999	8.8	683	115.1	8.3		4604.9

* Values Exceed Upper Control Limit

5MW53

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5 PERIMETER ORE ZONE MONITOR WELL

Well I.D. 5MW54 2nd Half,1999

Water Quality Parameters	Chloride	Specific 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						
13 JUL 1999	17.8	749	126.0	8.4		4595.9
28 JUL 1999	21.2	782	126.5	8.2		4602.8
10 AUG 1999	18.6	769	119.3	8.3		4599.8
25 AUG 1999	19.3	773	121.5	8.2		4604.9
08 SEP 1999	21.3	783	126.8	8.3		4609.3
21 SEP 1999	19.9	785	125.1	8.4		4600.0
05 OCT 1999	19.6	781	125.1	8.3		4599.3
19 OCT 1999	20.5	774	127.1	8.5		4597.[illegible]
02 NOV 1999	19.8	772	124.6	8.4		4594.[illegible]
16 NOV 1999	19.2	766	122.5	8.4		4593.5
30 NOV 1999	19.0	752	121.7	8.4		4591.3
14 DEC 1999	17.9	740	118.1	8.5		4590.5
28 DEC 1999	17.6	739	118.5	8.4		4590.4

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
14 JUL 1999	8.4	692	112.8	8.3		4609.6
29 JUL 1999	8.6	693	114.4	8.4		4609.1
11 AUG 1999	7.9	691	107.5	8.2		4610.7
25 AUG 1999	8.3	692	106.4	8.3		4616.1
09 SEP 1999	7.9	693	109.1	8.2		4615.2
21 SEP 1999	8.1	697	109.2	8.3		4607.3
05 OCT 1999	8.6	689	111.7	8.3		4606.9
19 OCT 1999	8.7	688	112.2	8.3		4606.2
03 NOV 1999	8.4	690	113.0	8.4		4603.8
17 NOV 1999	8.2	690	111.9	8.3		4602.4
30 NOV 1999	8.5	687	108.2	8.4		4600.9
14 DEC 1999	8.4	684	107.2	8.3		4601.1
29 DEC 1999	8.4	682	109.1	8.3		4600.5

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
13 JUL 1999	8.8	693	115.8	8.5		4590.1
28 JUL 1999	8.6	703	113.2	8.3		4601.5
10 AUG 1999	8.1	703	108.3	8.4		4598.2
25 AUG 1999	8.3	695	106.6	8.3		4603.1
08 SEP 1999	8.2	694	107.3	8.4		4607.7
21 SEP 1999	8.4	701	110.6	8.4		4601.6
05 OCT 1999	8.2	696	111.1	8.3		4601.3
19 OCT 1999	8.5	689	111.8	8.5		4599.[illegible]
02 NOV 1999	8.6	702	111.2	8.4		4596.[illegible]
16 NOV 1999	8.6	700	112.3	8.4		4595.7
30 NOV 1999	8.8	697	112.4	8.4		4594.1
14 DEC 1999	8.3	688	108.1	8.5		4593.3
28 DEC 1999	8.4	691	108.0	8.4		4593.3

* Values Exceed Upper Control Limit

5MW56

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
14 JUL 1999	8.4	696	112.3	8.4		4609.3
29 JUL 1999	8.4	698	113.2	8.4		4608.7
11 AUG 1999	7.9	695	108.1	8.2		4610.5
25 AUG 1999	8.1	694	106.8	8.3		4614.5
09 SEP 1999	8.0	696	108.5	8.2		4614.9
21 SEP 1999	8.4	704	113.0	8.3		4607.0
05 OCT 1999	8.5	691	110.5	8.2		4605.9
19 OCT 1999	8.4	691	111.0	8.3		4605.5
03 NOV 1999	8.4	695	112.6	8.4		4603.1
17 NOV 1999	8.3	695	111.1	8.3		4601.8
30 NOV 1999	8.5	688	108.8	8.4		4600.2
14 DEC 1999	8.4	687	108.3	8.3		4600.1
29 DEC 1999	8.5	688	109.0	8.3		4599.6

* Values Exceed Upper Control Limit 5MW57

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
14 JUL 1999	8.7	692	113.9	8.5		4589.1
28 JUL 1999	9.0	697	113.9	8.4		4602.0
10 AUG 1999	8.6	693	108.5	8.3		4600.7
25 AUG 1999	8.2	691	106.9	8.4		4604.0
09 SEP 1999	8.4	696	110.5	8.3		4608.0
21 SEP 1999	9.0	693	115.0	8.4		4603.0
05 OCT 1999	8.9	691	115.9	8.4		4602.5
19 OCT 1999	8.6	694	111.4	8.6		4601.5
02 NOV 1999	8.5	700	110.6	8.5		4598.9
16 NOV 1999	8.6	695	112.3	8.5		4598.1
30 NOV 1999	8.6	690	107.9	8.5		4596.2
14 DEC 1999	8.5	690	108.3	8.5		4595.4
28 DEC 1999	8.6	686	110.6	8.5		4595.3

* Values Exceed Upper Control Limit

5MW58

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
14 JUL 1999	8.5	696	112.7	8.4		4605.7
29 JUL 1999	8.5	697	114.1	8.5		4606.4
11 AUG 1999	8.1	693	107.8	8.3		4607.4
25 AUG 1999	8.0	692	105.5	8.3		4610.4
09 SEP 1999	8.1	695	109.9	8.2		4612.4
21 SEP 1999	8.6	701	113.7	8.3		4603.6
05 OCT 1999	8.6	689	112.1	8.3		4602.7
19 OCT 1999	8.6	690	112.5	8.4		4601.7
03 NOV 1999	8.4	695	112.5	8.5		4599.5
17 NOV 1999	8.3	694	110.8	8.4		4598.4
30 NOV 1999	8.4	687	108.7	8.5		4596.7
14 DEC 1999	8.5	688	108.4	8.3		4596.4
29 DEC 1999	8.5	687	108.5	8.4		4595.9

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
14 JUL 1999	10.2	616	215.4 *	8.2		4588.5
28 JUL 1999	10.4	607	213.5 *	8.3		4602.3
10 AUG 1999	10.1	607	201.0 *	8.3		4601.7
25 AUG 1999	9.7	674	187.0	8.1		4604.5
09 SEP 1999	9.1	733	178.5	8.1		4608.1
21 SEP 1999	9.4	725	183.1	8.2		4604.3
05 OCT 1999	9.3	741	187.5	8.3		4603.6
19 OCT 1999	9.6	755	186.4	8.3		4602.[illegible]
02 NOV 1999	9.4	764	184.5	8.2		4600.[illegible]
16 NOV 1999	9.6	757	186.9	8.2		4599.5
30 NOV 1999	9.5	758	177.0	8.3		4597.9
14 DEC 1999	9.3	779	176.3	8.2		4596.8
28 DEC 1999	9.4	787 *	185.5	8.3		4596.9

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
14 JUL 1999	8.6	694	114.2	8.2		4603.3
29 JUL 1999	8.5	697	113.7	8.3		4608.5
11 AUG 1999	8.1	691	108.3	8.2		4609.5
25 AUG 1999	8.3	691	107.3	8.2		4611.4
09 SEP 1999	8.1	695	109.7	8.0		4614.2
21 SEP 1999	8.1	700	107.3	8.2		4608.7
05 OCT 1999	8.6	690	111.5	8.2		4608.1
19 OCT 1999	8.6	692	113.4	8.4		4607.0
03 NOV 1999	8.5	693	112.9	8.4		4605.6
17 NOV 1999	8.4	693	111.4	8.3		4604.7
30 NOV 1999	8.4	686	108.3	8.3		4602.9
14 DEC 1999	8.6	687	109.2	8.2		4602.4
29 DEC 1999	8.7	686	112.1	8.2		4602.0

* Values Exceed Upper Control Limit

5MW61

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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							
14 JUL 1999	9.9	853	128.2		8.2		4588.0
28 JUL 1999	9.4	816	122.8		8.2		4601.7
11 AUG 1999	9.0	801	116.4		8.2		4602.5
25 AUG 1999	9.1	820	117.7		8.2		4604.5
09 SEP 1999	10.5	856	125.5		8.1		4607.7
21 SEP 1999	10.2	867	128.6		8.1		4604.2
05 OCT 1999	10.7	884	136.1	*	8.1		4603.8
20 OCT 1999	11.3	896	141.0	*	8.2		4602.8
02 NOV 1999	11.2	909	140.6	*	8.0		4600.7
16 NOV 1999	11.6	907	145.3	*	8.1		4599.8
30 NOV 1999	11.5	905	139.4	*	8.1		4598.4
14 DEC 1999	11.4	908	141.5	*	8.0		4597.6
28 DEC 1999	11.8	900	143.7	*	8.0		4597.5

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
13 JUL 1999	9.3	678	113.6	8.5		4600.9
28 JUL 1999	8.8	689	112.4	8.2		4608.1
10 AUG 1999	8.3	690	107.0	8.3		4609.6
25 AUG 1999	8.4	687	105.3	8.3		4610.9
08 SEP 1999	8.2	685	107.1	8.4		4613.4
21 SEP 1999	8.2	693	105.3	8.4		4609.4
05 OCT 1999	8.4	688	109.3	8.2		4608.7
19 OCT 1999	8.8	691	110.0	8.4		4608.0
02 NOV 1999	9.3	695	117.6	8.3		4606.5
16 NOV 1999	8.9	687	110.1	8.3		4605.6
30 NOV 1999	8.8	679	107.8	8.4		4604.2
14 DEC 1999	8.8	675	106.4	8.4		4603.6
28 DEC 1999	8.9	682	111.2	8.3		4603.2

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
14 JUL 1999	8.8	721	112.9	8.4		4591.1
28 JUL 1999	9.0	730	114.6	8.4		4603.6
11 AUG 1999	8.7	728	109.1	8.3		4605.4
25 AUG 1999	9.0	730	109.9	8.3		4606.3
09 SEP 1999	8.7	736	109.0	8.2		4608.9
21 SEP 1999	8.8	730	107.8	8.3		4606.3
05 OCT 1999	9.0	731	115.3	8.3		4606.1
20 OCT 1999	9.1	733	113.2	8.6		4605.2
02 NOV 1999	9.3	740	113.4	8.3		4603.5
16 NOV 1999	9.2	738	112.0	8.4		4602.8
30 NOV 1999	9.7	731	116.4	8.4		4601.4
14 DEC 1999	9.2	729	109.3	8.3		4600.7
28 DEC 1999	9.1	727	110.6	8.4		4600.4

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
13 JUL 1999	10.0	699	114.9	8.4		4601.4
28 JUL 1999	9.9	709	114.0	8.1		4609.1
10 AUG 1999	9.0	702	109.4	8.2		4611.4
25 AUG 1999	9.3	702	108.1	8.2		4612.4
08 SEP 1999	9.1	698	109.8	8.3		4614.3
21 SEP 1999	9.0	705	106.6	8.3		4611.6
05 OCT 1999	9.4	688	115.0	8.2		4611.2
19 OCT 1999	9.8	697	110.0	8.3		4610.5
02 NOV 1999	9.7	701	109.9	8.2		4609.3
16 NOV 1999	10.0	692	110.1	8.2		4608.4
30 NOV 1999	9.7	689	106.3	8.4		4607.1
14 DEC 1999	9.8	683	106.1	8.4		4606.7
28 DEC 1999	9.7	687	106.2	8.3		4606.1

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
14 JUL 1999	8.9	770	105.4	8.2		4594.5
28 JUL 1999	9.1	775	107.8	8.3		4605.1
11 AUG 1999	8.8	773	102.9	8.1		4607.3
25 AUG 1999	9.4	774	105.1	8.2		4607.8
09 SEP 1999	11.1	782	114.1	8.1		4610.3
21 SEP 1999	9.7	781	105.8	8.2		4608.5
05 OCT 1999	8.9	779	105.3	8.2		4607.9
20 OCT 1999	9.0	777	104.3	8.4		4607.2
02 NOV 1999	8.9	782	103.3	8.2		4605.9
16 NOV 1999	8.9	778	102.8	8.3		4605.1
30 NOV 1999	8.7	769	99.6	8.3		4603.7
14 DEC 1999	8.7	773	100.2	8.3		4603.1
28 DEC 1999	8.7	764	100.5	8.2		4602.6

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
13 JUL 1999	7.6	852	93.4	8.2		4605.1
28 JUL 1999	7.2	846	92.3	8.1		4610.8
10 AUG 1999	6.8	843	88.4	8.1		4613.1
25 AUG 1999	7.0	840	86.5	8.1		4614.1
08 SEP 1999	7.3	832	93.5	8.2		4615.3
21 SEP 1999	7.1	848	87.2	8.1		4614.0
05 OCT 1999	6.9	842	90.1	8.1		4613.6
19 OCT 1999	7.2	849	90.7	8.3		4613.0
02 NOV 1999	7.3	842	92.7	8.1		4612.0
16 NOV 1999	7.4	849	91.5	8.2		4611.1
30 NOV 1999	7.3	841	88.4	8.3		4610.3
14 DEC 1999	7.3	834	88.7	8.2		4609.8
28 DEC 1999	7.3	837	88.1	8.2		4609.0

* Values Exceed Upper Control Limit

5MW67

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
13 JUL 1999	9.2	701	113.1	8.6		4607.1
29 JUL 1999	8.8	696	110.6	8.7		4611.4
10 AUG 1999	8.0	719	98.7	8.6		4613.6
25 AUG 1999	8.2	735	95.9	8.5		4614.4
08 SEP 1999	7.7	763	94.4	8.7		4615.7
21 SEP 1999	8.1	746	98.1	8.5		4615.1
05 OCT 1999	8.4	697	108.7	8.5		4614.5
19 OCT 1999	8.8	698	109.6	8.7		4614.4
02 NOV 1999	9.1	700	111.3	8.5		4613.7
16 NOV 1999	8.9	694	109.3	8.5		4612.7
30 NOV 1999	8.8	687	106.9	8.6		4612.0
14 DEC 1999	8.7	686	107.2	8.6		4611.4
28 DEC 1999	8.9	682	107.6	8.5		4610.8

* Values Exceed Upper Control Limit

5MW69

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
08 JUL 1999	5.2	1329	72.3	8.0		4580.3
21 JUL 1999	5.2	1342	71.0	8.2		4566.3
03 AUG 1999	4.9	1317	65.6	8.1		4565.9
18 AUG 1999	4.8	1333	67.6	8.1		4571.8
30 AUG 1999	4.9	1322	69.0	8.2		4568.8
14 SEP 1999	4.7	1332	66.7	7.8		4569.1
28 SEP 1999	4.6	1339	66.1	8.0		4576.1
12 OCT 1999	4.9	1336	69.0	8.1		4574.1
26 OCT 1999	4.9	1324	68.6	8.2		4573.0
08 NOV 1999	4.8	1340	68.5	8.1		4571.0
23 NOV 1999	5.0	1323	70.3	8.1		4573.7
07 DEC 1999	5.0	1325	70.3	8.0		4572.4
20 DEC 1999	4.9	1330	67.9	8.1		4564.5

* Values Exceed Upper Control Limit

6MW17-2

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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 1999	6.2	1467	72.6	8.0		4625.4
21 JUL 1999	6.2	1475	71.9	8.2		4616.8
03 AUG 1999	5.5	1452	68.0	8.0		4616.0
18 AUG 1999	5.7	1453	67.8	8.0		4616.5
30 AUG 1999	5.5	1443	67.4	8.2		4618.0
14 SEP 1999	5.5	1458	67.2	7.8		4618.4
28 SEP 1999	5.8	1450	70.5	8.0		4624.4
12 OCT 1999	6.0	1445	72.9	8.0		4624.2
26 OCT 1999	5.7	1439	69.4	8.1		4621.
08 NOV 1999	5.6	1418	68.6	8.0		4619.8
23 NOV 1999	5.5	1353	74.1	8.1		4620.8
07 DEC 1999	5.1	1326	69.9	8.1		4618.6
20 DEC 1999	5.3	1353	70.0	8.2		4612.5

* Values Exceed Upper Control Limit

6MW19

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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 1999	6.0		1207		78.2		8.2			4623.9
21 JUL 1999	5.4		1306		74.6		8.3			4624.1
03 AUG 1999	4.9		1289		69.1		8.1			4623.4
18 AUG 1999	4.9		1285		70.5		8.1			4624.6
30 AUG 1999	4.9		1281		71.3		8.2			4621.0
14 SEP 1999	4.8		1300		70.7		7.9			4626.6
28 SEP 1999	6.5		1291		77.6		8.1			4630.2
12 OCT 1999	18.4		1489		171.2	*	7.8			4632.0
26 OCT 1999	32.2	*	1800	*	329.4	*	7.1		-1	4625.2
28 OCT 1999	29.2	*	1746	*	305.8	*	7.3		-1	4618.5
01 NOV 1999	30.9	*	1702	*	285.6	*	7.6		-1	4616.3
08 NOV 1999	25.6	*	1555		203.7	*	7.7		-1	4614.9
15 NOV 1999	21.6	*	1479		170.9	*	7.9		-1	4615.1
22 NOV 1999	17.3		1421		143.6	*	7.9		-1	4615.1
29 NOV 1999	15.3		1370		133.6	*	8.0			4615.1
06 DEC 1999	12.2		1356		110.7	*	7.9			4614.1
20 DEC 1999	10.5		1344		108.3	*	8.0			4611.3

* Values Exceed Upper Control Limit

6MW21

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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 1999	5.5	1281	71.4	8.3		4620.3
21 JUL 1999	5.4	1291	76.0	8.4		4637.1
03 AUG 1999	4.9	1276	70.4	8.2		4642.1
18 AUG 1999	4.9	1277	72.5	8.2		4636.2
30 AUG 1999	4.9	1266	72.2	8.4		4627.7
14 SEP 1999	5.0	1285	74.0	8.0		4634.5
28 SEP 1999	5.0	1277	70.6	8.2		4634.5
12 OCT 1999	5.2	1279	75.4	8.2		4637[illegible]
26 OCT 1999	5.1	1259	73.0	8.3		4629.[illegible]
08 NOV 1999	5.5	1252	71.3	8.4		4616.8
23 NOV 1999	5.1	1245	72.7	8.4		4619.9
07 DEC 1999	5.1	1251	70.7	8.3		4616.1
20 DEC 1999	5.2	1262	70.4	8.4		4618.8

* Values Exceed Upper Control Limit

6MW23

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6 PERIMETER ORE ZONE MONITOR WELL

Well I.D. 6MW25 2nd Half,1999

Water Quality Parameters	Chloride	Specific 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 1999	5.9	1254	69.2	8.3		4617.5
21 JUL 1999	5.7	1251	71.6	8.4		4633.3
03 AUG 1999	5.5	1234	70.2	8.2		4636.8
18 AUG 1999	5.5	1231	70.2	8.1		4634.2
31 AUG 1999	5.2	1240	69.2	8.3		4622.8
14 SEP 1999	5.4	1236	69.5	8.0		4630.0
28 SEP 1999	5.4	1232	69.4	8.2		4630.7
12 OCT 1999	5.6	1231	72.8	8.2		4636.5
26 OCT 1999	5.6	1233	72.1	8.1		4632.0
09 NOV 1999	5.7	1227	72.1	8.1		4627.2
23 NOV 1999	5.8	1221	72.7	8.2		4632.4
07 DEC 1999	6.0	1221	73.8	8.1		4626.8
20 DEC 1999	5.8	1228	69.3	8.0		4629.8

* Values Exceed Upper Control Limit

6MW25

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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 1999	6.4	1433	71.6	8.4		4618.2
21 JUL 1999	6.4	1470	72.9	8.5		4633.4
03 AUG 1999	5.7	1407	67.5	8.3		4636.2
18 AUG 1999	6.2	1425	72.0	8.3		4634.7
31 AUG 1999	6.0	1426	67.9	8.5		4621.6
14 SEP 1999	5.4	1358	69.6	8.1		4621.4
28 SEP 1999	5.3	1323	69.9	8.2		4620.7
12 OCT 1999	5.3	1310	70.8	8.2		4631.[illegible]
26 OCT 1999	5.6	1299	73.3	8.2		4625.[illegible]
09 NOV 1999	5.5	1287	71.1	8.1		4623.2
23 NOV 1999	5.2	1281	71.5	8.2		4635.1
07 DEC 1999	5.1	1279	67.8	8.2		4622.7
20 DEC 1999	5.2	1286	68.4	8.2		4628.8

* 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,1999

Water Quality Parameters	Chloride	Specific 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 1999	5.7	1295	65.8	8.6		4619.7
21 JUL 1999	5.4	1292	71.8	8.4		4634.0
03 AUG 1999	5.0	1288	67.8	8.2		4645.4
18 AUG 1999	4.8	1298	67.3	8.6		4637.7
31 AUG 1999	5.0	1286	71.5	8.6		4625.8
14 SEP 1999	5.8	1281	66.3	8.5		4613.1
28 SEP 1999	5.3	1274	65.4	8.4		4617.9
12 OCT 1999	5.1	1299	70.0	8.4		4631.4
27 OCT 1999	5.3	1293	69.8	8.3		4619.5
09 NOV 1999	5.3	1294	69.4	8.3		4619.0
23 NOV 1999	5.6	1286	71.1	8.3		4642.4
07 DEC 1999	5.4	1283	73.7	8.1		4616.6
20 DEC 1999	5.4	1297	72.9	8.0		4629.9

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
08 JUL 1999	5.6	1282	71.6	8.1		4622.5
22 JUL 1999	5.1	1294	70.6	8.3		4621.5
03 AUG 1999	5.0	1309	67.2	8.0		4617.3
19 AUG 1999	4.8	1283	67.8	8.3		4612.4
01 SEP 1999	5.0	1283	68.5	8.2		4612.3
15 SEP 1999	4.9	1310	67.1	8.2		4612.6
29 SEP 1999	4.9	1304	66.7	8.1		4615.5
13 OCT 1999	5.2	1317	69.3	8.3		4620.9
27 OCT 1999	5.2	1291	69.5	8.2		4612.9
09 NOV 1999	5.1	1289	69.1	8.1		4612.1
23 NOV 1999	5.1	1273	70.7	8.2		4618.2
08 DEC 1999	5.0	1282	68.4	8.2		4612.8
20 DEC 1999	5.2	1294	67.1	8.2		4600.3

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
08 JUL 1999	5.6	1265	73.8	8.0		4622.9
22 JUL 1999	5.3	1270	74.1	8.2		4620.0
04 AUG 1999	4.9	1280	70.3	8.0		4612.3
19 AUG 1999	4.7	1273	69.7	8.2		4616.0
01 SEP 1999	5.0	1272	70.6	8.1		4612.2
15 SEP 1999	4.9	1300	70.9	7.8		4613.6
29 SEP 1999	4.9	1292	71.4	8.0		4613.6
13 OCT 1999	5.3	1293	73.2	8.1		4618.3
27 OCT 1999	5.1	1281	72.5	8.1		4610.6
08 NOV 1999	5.2	1282	73.8	8.1		4613.1
22 NOV 1999	5.0	1277	73.7	8.2		4616.5
08 DEC 1999	5.3	1270	77.5	8.1		4617.4
20 DEC 1999	5.0	1282	70.1	8.1		4602.3

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
08 JUL 1999	5.0	1360	70.2	7.9		4627.3
21 JUL 1999	5.0	1360	70.5	8.1		4608.2
03 AUG 1999	4.7	1349	65.8	8.0		4608.3
18 AUG 1999	4.7	1364	66.5	8.0		4611.6
30 AUG 1999	4.7	1356	68.0	8.1		4608.6
14 SEP 1999	4.7	1359	65.7	7.8		4609.0
28 SEP 1999	4.7	1361	66.1	7.9		4616.7
12 OCT 1999	4.8	1360	68.4	8.0		4614.3
26 OCT 1999	4.8	1364	67.8	8.1		4616.2
08 NOV 1999	4.9	1357	67.9	8.0		4615.1
23 NOV 1999	4.9	1343	68.8	8.0		4615.9
07 DEC 1999	4.9	1346	67.1	8.1		4614.8
20 DEC 1999	4.9	1356	68.3	8.1		4608.3

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
08 JUL 1999	5.6	1271	73.2	7.9		4620.7
22 JUL 1999	5.4	1278	73.7	8.1		4618.0
04 AUG 1999	4.9	1281	69.6	8.0		4609.3
19 AUG 1999	4.9	1273	70.8	8.1		4613.2
01 SEP 1999	5.0	1270	69.6	8.0		4611.4
15 SEP 1999	5.1	1299	72.4	7.8		4613.3
29 SEP 1999	5.2	1289	73.0	7.9		4612.2
13 OCT 1999	5.2	1295	72.1	8.1		4616.9
27 OCT 1999	5.2	1278	71.8	8.0		4611.8
08 NOV 1999	5.4	1280	72.0	8.0		4614.9
22 NOV 1999	4.9	1275	71.8	8.1		4617.2
08 DEC 1999	5.1	1266	72.7	8.0		4621.6
20 DEC 1999	5.3	1279	72.9	8.1		4607.2

* 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,1999

Water Quality Parameters	Chloride	Specific 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 1999	6.2	1237	72.2	8.1		4626.4
21 JUL 1999	6.2	1225	72.0	8.2		4607.1
03 AUG 1999	5.8	1203	68.0	8.1		4604.5
18 AUG 1999	5.7	1205	68.4	8.1		4605.6
30 AUG 1999	5.8	1209	70.3	8.2		4604.2
14 SEP 1999	6.0	1208	71.6	7.9		4603.9
28 SEP 1999	5.8	1214	69.9	8.0		4612.6
12 OCT 1999	6.1	1218	72.1	8.0		4610.4
26 OCT 1999	5.7	1204	69.9	8.2		4615.2
08 NOV 1999	5.9	1210	69.7	8.1		4615.0
23 NOV 1999	5.5	1221	69.3	8.1		4614.1
07 DEC 1999	5.4	1242	67.1	8.1		4613.3
20 DEC 1999	6.0	1214	72.4	8.2		4607.6

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
08 JUL 1999	5.5	1273	74.3	8.0		4613.4
22 JUL 1999	5.1	1279	74.5	8.2		4611.7
04 AUG 1999	4.9	1282	69.6	8.0		4604.2
19 AUG 1999	4.8	1277	71.5	8.2		4606.8
01 SEP 1999	4.9	1271	70.4	8.1		4605.0
15 SEP 1999	4.9	1297	70.3	7.9		4606.3
29 SEP 1999	4.9	1290	70.6	8.0		4606.2
13 OCT 1999	5.2	1299	75.9	8.1		4610.0
27 OCT 1999	5.2	1284	73.6	8.1		4606.3
08 NOV 1999	5.2	1281	73.5	8.1		4609.5
22 NOV 1999	4.9	1275	72.9	8.2		4608.3
08 DEC 1999	4.9	1267	70.8	8.1		4613.1
20 DEC 1999	5.3	1281	74.2	8.1		4600.6

* Values Exceed Upper Control Limit

6MW37

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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 1999	5.2	1356	71.6	8.1		4624.5
21 JUL 1999	5.0	1370	70.5	8.2		4607.1
03 AUG 1999	4.6	1348	67.1	8.1		4600.6
18 AUG 1999	4.6	1349	67.5	8.1		4603.6
30 AUG 1999	4.6	1352	68.2	8.2		4600.8
14 SEP 1999	4.6	1353	67.5	7.9		4600.0
28 SEP 1999	4.6	1355	66.7	8.0		4608.4
12 OCT 1999	4.8	1349	70.7	8.1		4607.0
26 OCT 1999	4.9	1345	72.2	8.1		4611.9
08 NOV 1999	4.9	1348	70.4	8.1		4611.9
23 NOV 1999	4.9	1338	69.9	8.1		4612.0
07 DEC 1999	4.8	1334	65.9	8.1		4611.5
20 DEC 1999	4.9	1345	67.2	8.1		4606.4

* Values Exceed Upper Control Limit

6MW38

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
08 JUL 1999	5.6	1271	69.3	8.2		4606.1
22 JUL 1999	5.2	1256	68.4	8.4		4605.2
04 AUG 1999	5.0	1265	65.8	8.3		4598.9
19 AUG 1999	4.9	1248	66.0	8.4		4603.5
01 SEP 1999	4.9	1252	64.5	8.4		4599.3
15 SEP 1999	5.0	1276	65.7	8.1		4600.0
29 SEP 1999	5.3	1277	67.3	8.2		4600.1
13 OCT 1999	5.5	1281	70.1	8.4		4603.1
27 OCT 1999	5.1	1267	68.3	8.3		4600.4
08 NOV 1999	5.3	1259	68.2	8.4		4603.3
22 NOV 1999	5.2	1259	68.6	8.4		4600.7
08 DEC 1999	5.1	1255	65.8	8.3		4604.4
20 DEC 1999	5.5	1267	67.4	8.3		4593.0

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
08 JUL 1999	6.0	1375	80.5	8.0		4621.1
21 JUL 1999	6.1	1393	84.9	8.3		4603.8
03 AUG 1999	5.8	1372	80.1	8.1		4595.4
18 AUG 1999	5.8	1376	82.6	8.1		4599.6
30 AUG 1999	5.8	1388	85.3	8.2		4595.4
14 SEP 1999	5.9	1376	82.3	7.9		4596.8
28 SEP 1999	5.4	1376	76.2	8.0		4603.5
12 OCT 1999	5.7	1367	78.5	8.0		4602.[illegible]
26 OCT 1999	5.2	1359	73.9	8.1		4606.[illegible]
08 NOV 1999	5.2	1359	70.6	8.1		4606.8
23 NOV 1999	5.3	1356	76.1	8.1		4608.0
07 DEC 1999	5.3	1353	73.8	8.1		4608.1
20 DEC 1999	5.3	1359	74.0	8.2		4604.8

* 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,1999

Water Quality Parameters	Chloride	Specific 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							
08 JUL 1999	9.4	1372	142.0	*	8.0		4604.9
22 JUL 1999	8.8	1356	132.5	*	8.1		4603.6
04 AUG 1999	8.4	1358	122.5	*	7.9		4595.9
19 AUG 1999	9.1	1367	133.8	*	8.0		4598.6
01 SEP 1999	10.5	1394	149.9	*	7.9		4597.1
15 SEP 1999	11.6	1440	153.4	*	7.7		4597.2
29 SEP 1999	11.0	1432	156.1	*	7.9		4597.7
13 OCT 1999	12.0	1454	168.0	*	7.9		4600.5
27 OCT 1999	12.3	1454	172.8	*	7.9		4598.0
08 NOV 1999	14.0	1484	192.8	*	7.9		4600.4
22 NOV 1999	12.4	1459	178.4	*	7.9		4597.0
08 DEC 1999	11.6	1450	166.0	*	7.9		4603.2
20 DEC 1999	12.8	1470	176.9	*	7.8		4592.2

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
08 JUL 1999	5.1	1357	68.7	8.0		4620.8
21 JUL 1999	5.0	1375	69.0	8.2		4604.3
03 AUG 1999	4.9	1362	66.4	8.0		4596.3
18 AUG 1999	4.9	1358	66.4	8.0		4598.9
30 AUG 1999	4.8	1371	66.7	8.2		4596.0
14 SEP 1999	4.7	1353	65.2	7.8		4599.0
28 SEP 1999	4.9	1363	67.7	8.0		4603.9
12 OCT 1999	5.1	1351	68.8	8.0		4604.[illegible]
26 OCT 1999	4.9	1351	67.8	8.1		4607.[illegible]
09 NOV 1999	5.2	1345	67.0	8.0		4607.4
23 NOV 1999	5.1	1344	71.1	8.1		4608.8
07 DEC 1999	5.1	1342	68.4	8.1		4609.1
20 DEC 1999	5.1	1350	65.6	8.1		4607.6

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
08 JUL 1999	6.0	1272	76.4	7.9		4603.6
22 JUL 1999	5.7	1271	77.0	8.1		4601.9
04 AUG 1999	5.3	1282	73.4	8.1		4593.9
19 AUG 1999	5.5	1275	73.5	8.1		4597.4
01 SEP 1999	5.6	1267	73.4	8.0		4593.9
15 SEP 1999	5.8	1293	78.0	7.8		4595.4
29 SEP 1999	5.4	1295	73.6	8.0		4595.6
13 OCT 1999	5.6	1295	76.4	8.0		4598.6
27 OCT 1999	5.3	1287	77.5	8.1		4596.0
08 NOV 1999	5.3	1285	75.7	8.1		4598.1
22 NOV 1999	5.3	1276	76.6	8.2		4596.1
08 DEC 1999	5.4	1273	79.4	8.1		4601.9
20 DEC 1999	5.4	1284	76.9	8.1		4590.4

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
08 JUL 1999	5.4	1364	69.6	7.9		4619.8
22 JUL 1999	4.9	1367	67.5	8.2		4601.1
03 AUG 1999	4.9	1373	63.4	8.1		4592.8
18 AUG 1999	4.6	1365	64.0	8.3		4595.6
01 SEP 1999	4.8	1356	64.3	8.2		4592.4
14 SEP 1999	4.7	1374	64.0	8.0		4598.1
28 SEP 1999	5.1	1347	66.4	8.1		4602.0
12 OCT 1999	4.8	1363	67.2	8.2		4603.[illegible]
26 OCT 1999	4.9	1364	67.3	8.2		4606.[illegible]
09 NOV 1999	4.9	1359	66.1	8.1		4607.0
23 NOV 1999	4.9	1344	67.7	8.1		4607.5
07 DEC 1999	4.9	1355	65.7	8.1		4608.5
20 DEC 1999	4.9	1360	64.8	8.1		4608.1

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
08 JUL 1999	6.4	1274	75.7	7.9		4600.7
22 JUL 1999	6.1	1279	75.3	8.1		4637.3
04 AUG 1999	6.0	1282	72.2	8.0		4589.9
19 AUG 1999	6.0	1277	72.2	8.1		4593.3
01 SEP 1999	6.1	1268	73.1	8.1		4591.6
15 SEP 1999	6.4	1294	75.4	7.8		4590.1
29 SEP 1999	6.2	1295	72.7	8.0		4591.3
13 OCT 1999	6.7	1295	76.8	8.1		4593.9
27 OCT 1999	6.7	1280	76.5	8.1		4613.1
08 NOV 1999	7.1	1288	75.5	8.0		4615.0
22 NOV 1999	7.0	1284	77.4	8.1		4591.2
08 DEC 1999	6.9	1274	75.4	8.0		4600.3
20 DEC 1999	7.3	1285	75.9	8.1		4589.0

* 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,1999

Water Quality Parameters	Chloride	Specific 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								
08 JUL 1999	21.0	*	1651	197.0	*	7.5	-1	4619.1
09 JUL 1999	20.7	*	1630	202.6	*	7.6	-1	4611.1
09 JUL 1999	20.8	*	1633	203.7	*	7.5	-1	4611.1
12 JUL 1999	19.1		1621	177.6	*	7.8	-1	4601.3
19 JUL 1999	12.6		1525	119.7	*	8.0	-1	4598.3
27 JUL 1999	10.6		1516	107.2	*	8.0	-1	4589.4
03 AUG 1999	9.5		1528	94.3	*	7.9		4589.1
18 AUG 1999	8.4		1541	87.8		7.9		4592.[illegible]
01 SEP 1999	8.5		1556	88.0		7.9		4589.[illegible]
14 SEP 1999	7.9		1574	84.7		7.7		4596.9
28 SEP 1999	7.8		1518	86.1		7.9		4600.5
12 OCT 1999	7.8		1533	94.1	*	7.9		4601.7
26 OCT 1999	8.0		1524	89.1		8.0		4604.8
09 NOV 1999	8.3		1508	91.7	*	7.8		4605.7
23 NOV 1999	8.1		1506	90.2	*	7.9		4606.3
07 DEC 1999	7.7		1494	87.4		8.0		4607.6
20 DEC 1999	7.8		1509	93.0	*	8.0		4608.8

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
08 JUL 1999	5.6	1270	72.1	8.0		4601.0
22 JUL 1999	5.4	1267	73.0	8.2		4598.3
04 AUG 1999	5.0	1274	69.6	8.1		4589.2
19 AUG 1999	5.0	1263	70.1	8.2		4593.4
01 SEP 1999	5.1	1268	70.5	8.1		4591.3
15 SEP 1999	4.9	1284	69.4	7.9		4590.2
29 SEP 1999	5.0	1268	69.9	8.1		4590.9
13 OCT 1999	5.2	1293	77.3	8.1		4593.2
27 OCT 1999	5.2	1278	73.3	8.1		4591.5
08 NOV 1999	5.6	1282	71.5	8.1		4593.8
22 NOV 1999	5.1	1280	73.7	8.2		4591.6
08 DEC 1999	5.1	1267	70.4	8.1		4603.0
20 DEC 1999	5.4	1274	72.8	8.2		4589.8

* Values Exceed Upper Control Limit

6MW47

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
08 JUL 1999	13.2	1392	124.4 *	7.9		4620.6
22 JUL 1999	6.7	1323	77.9	8.1		4601.4
03 AUG 1999	6.0	1335	69.4	8.0		4592.3
18 AUG 1999	5.6	1326	68.5	8.1		4594.6
01 SEP 1999	5.5	1316	68.2	8.1		4592.1
14 SEP 1999	5.1	1340	66.7	8.3		4599.0
29 SEP 1999	5.4	1326	69.2	8.2		4602.3
13 OCT 1999	5.5	1341	70.6	8.3		4604.0
27 OCT 1999	5.1	1332	69.0	8.4		4606.9
08 NOV 1999	5.6	1337	72.9	8.6		4607.3
23 NOV 1999	5.1	1333	69.1	8.3		4608.7
08 DEC 1999	5.1	1327	66.9	8.1		4609.6
20 DEC 1999	5.9	1329	73.6	8.3		4610.2

* Values Exceed Upper Control Limit

6MW48-3

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
08 JUL 1999	6.2	1278	74.2	8.1		4603.0
22 JUL 1999	5.5	1263	74.3	8.2		4599.6
04 AUG 1999	5.2	1268	71.2	8.0		4589.0
19 AUG 1999	5.2	1258	71.8	8.1		4595.4
01 SEP 1999	5.3	1260	71.1	8.1		4591.8
15 SEP 1999	5.1	1282	70.7	7.8		4590.2
29 SEP 1999	5.4	1283	70.8	8.0		4591.4
13 OCT 1999	5.6	1286	75.0	8.1		4593.7
27 OCT 1999	5.3	1275	73.8	8.1		4591.8
08 NOV 1999	5.6	1278	73.4	8.0		4593.9
22 NOV 1999	5.5	1276	75.6	8.2		4593.4
08 DEC 1999	5.5	1268	76.6	8.0		4607.7
20 DEC 1999	5.5	1280	75.1	8.1		4591.6

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
08 JUL 1999	6.1	1271	74.0	8.2		4617.0
22 JUL 1999	5.5	1269	71.6	8.1		4601.0
03 AUG 1999	5.4	1284	69.1	7.9		4591.1
18 AUG 1999	5.1	1272	68.1	8.1		4593.9
01 SEP 1999	5.4	1263	69.8	8.1		4593.5
14 SEP 1999	5.7	1254	72.5	7.9		4598.0
29 SEP 1999	5.4	1261	69.1	8.0		4600.1
13 OCT 1999	5.6	1274	71.3	8.1		4602.0
27 OCT 1999	5.6	1266	71.0	8.2		4603.0
08 NOV 1999	5.6	1269	70.1	8.0		4604.1
23 NOV 1999	5.6	1250	72.1	8.1		4604.1
08 DEC 1999	5.5	1265	71.2	8.1		4609.1
20 DEC 1999	5.4	1262	70.0	8.1		4608.2

* Values Exceed Upper Control Limit

6MW50

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
08 JUL 1999	5.9	1293	73.1	8.1		4600.9
22 JUL 1999	5.5	1282	71.8	8.1		4597.3
04 AUG 1999	5.0	1287	68.4	8.0		4587.6
19 AUG 1999	5.0	1274	69.3	8.1		4592.2
01 SEP 1999	5.2	1274	69.2	8.0		4590.2
15 SEP 1999	5.3	1301	68.0	7.8		4588.6
29 SEP 1999	5.4	1300	68.5	8.0		4589.5
13 OCT 1999	5.5	1299	71.3	8.0		4591.8
27 OCT 1999	5.3	1290	71.3	8.0		4590.3
08 NOV 1999	5.5	1289	70.3	8.0		4592.4
22 NOV 1999	5.1	1289	71.3	8.1		4592.3
08 DEC 1999	5.2	1273	75.0	8.1		4605.1
20 DEC 1999	5.5	1286	70.9	8.0		4592.5

* Values Exceed Upper Control Limit

Negative U3O8 Grades Indicate Less Than Detection Limit.

6MW51

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6 PERIMETER ORE ZONE MONITOR WELL

Well I.D. 6MW52 2nd Half,1999

Water Quality Parameters	Chloride	Specific 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						
08 JUL 1999	6.1	1241	71.1	8.4		4608.5
22 JUL 1999	5.6	1240	67.0	8.4		4598.9
03 AUG 1999	5.8	1245	70.6	8.2		4589.2
18 AUG 1999	5.6	1229	67.9	8.5		4593.4
01 SEP 1999	5.5	1221	67.3	8.3		4591.8
14 SEP 1999	5.3	1247	65.7	8.2		4591.8
29 SEP 1999	5.5	1239	68.3	8.3		4593.6
13 OCT 1999	5.7	1249	69.6	8.3		4596.[illegible]
27 OCT 1999	5.7	1230	69.4	8.4		4595.9
08 NOV 1999	6.0	1242	68.4	8.4		4597.2
23 NOV 1999	5.8	1236	69.9	8.4		4597.6
08 DEC 1999	5.4	1228	65.7	8.2		4609.5
20 DEC 1999	5.7	1245	67.4	8.3		4603.4

* Values Exceed Upper Control Limit

6MW52

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
08 JUL 1999	6.2	1210	69.2	8.5		4598.5
22 JUL 1999	6.1	1199	68.4	8.6		4595.0
04 AUG 1999	6.0	1195	58.3	8.6		4586.7
19 AUG 1999	5.8	1199	66.4	8.5		4589.8
01 SEP 1999	5.6	1195	65.6	8.5		4588.5
15 SEP 1999	5.7	1206	64.3	8.3		4587.2
29 SEP 1999	5.8	1193	63.3	8.4		4587.9
13 OCT 1999	6.2	1216	68.6	8.3		4590.1
27 OCT 1999	5.8	1202	66.3	8.3		4589.2
08 NOV 1999	6.2	1208	66.1	8.4		4591.5
22 NOV 1999	5.9	1204	65.6	8.4		4590.8
08 DEC 1999	5.9	1196	67.1	8.3		4599.3
20 DEC 1999	5.9	1204	65.2	8.4		4591.6

* Values Exceed Upper Control Limit

6MW53

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
08 JUL 1999	6.2	1243	67.9	8.2		4605.2
22 JUL 1999	5.8	1237	68.1	8.3		4598.4
04 AUG 1999	5.4	1233	61.8	8.2		4588.2
18 AUG 1999	5.5	1237	61.5	8.3		4591.3
01 SEP 1999	5.5	1232	68.1	8.3		4591.0
14 SEP 1999	5.5	1243	61.6	8.1		4589.9
29 SEP 1999	5.5	1238	60.9	8.2		4591.6
13 OCT 1999	5.6	1254	67.8	8.2		4593.[illegible]
27 OCT 1999	5.7	1223	63.9	8.4		4593.[illegible]
08 NOV 1999	5.9	1233	64.3	8.2		4594.5
23 NOV 1999	5.6	1219	67.6	8.3		4595.7
08 DEC 1999	5.4	1233	66.8	8.1		4607.3
20 DEC 1999	5.8	1235	66.3	8.2		4599.0

* Values Exceed Upper Control Limit

6MW54

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
13 JUL 1999	7.1	1216	114.4	8.2		4652.4
28 JUL 1999	6.9	1223	113.2	8.0		4652.6
10 AUG 1999	6.3	1206	108.7	8.1		4652.5
23 AUG 1999	6.3	1220	106.4	8.1		4652.5
08 SEP 1999	7.0	1199	116.1	8.2		4652.7
20 SEP 1999	6.2	1208	108.6	8.1		4652.9
04 OCT 1999	6.7	1205	113.2	8.0		4652.9
19 OCT 1999	6.9	1193	111.2	8.2		4652.8
02 NOV 1999	6.9	1212	114.0	8.0		4652.6
16 NOV 1999	6.6	1224	110.4	8.2		4653.0
30 NOV 1999	6.6	1199	107.7	8.2		4652.6
14 DEC 1999	6.6	1195	108.1	8.2		4653.0
27 DEC 1999	6.7	1196	108.6	8.2		4652.5

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
27 JUL 1999	12.4	1779	*	138.8	8.0	4552.5
24 AUG 1999	11.4	1862	*	126.5	8.0	4551.9
21 SEP 1999	11.5	1895	*	125.7	7.9	4551.5
11 OCT 1999	12.3	1894	*	135.5	7.9	4551.3
09 NOV 1999	12.4	1888	*	129.1	7.8	4551.3
16 DEC 1999	12.7	1893	*	133.7	8.0	4550.8

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
27 JUL 1999	9.7	1842	*	126.3	7.9	4555.4
24 AUG 1999	9.0	1865	*	118.6	7.9	4554.8
21 SEP 1999	9.3	1846	*	123.8	7.8	4554.5
11 OCT 1999	9.6	1855	*	128.6	7.8	4554.4
09 NOV 1999	9.7	1851	*	122.7	7.7	4554.3
16 DEC 1999	9.5	1850	*	125.0	7.9	4553.9

* Values Exceed Upper Control Limit

MW48S

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
27 JUL 1999	9.6	1330	171.0	8.1		4557.1
24 AUG 1999	9.7	1362	162.2	8.0		4556.5
21 SEP 1999	8.9	1357	164.2	7.9		4556.3
11 OCT 1999	10.4	1359	162.3	7.9		4556.2
09 NOV 1999	8.9	1354	152.9	7.8		4555.8
16 DEC 1999	8.7	1340	156.4	8.1		4555.7

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
27 JUL 1999	7.3	1402	98.0	8.3		4549.6
24 AUG 1999	6.8	1407	91.0	8.1		4549.2
21 SEP 1999	6.9	1418	101.0	8.1		4548.9
12 OCT 1999	7.3	1412	102.6	8.0		4548.8
10 NOV 1999	7.3	1438	98.1	8.0		4548.7
19 DEC 1999	7.3	1423	97.4	8.0		4549.7

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
27 JUL 1999	8.0	1474	131.1	7.9		4561.1
24 AUG 1999	7.2	1502	125.1	8.0		4560.0
21 SEP 1999	7.3	1495	127.0	7.9		4559.5
11 OCT 1999	7.5	1493	130.7	8.0		4559.5
09 NOV 1999	7.6	1494	140.8	7.7		4559.6
16 DEC 1999	7.7	1492	137.0	8.1		4559.2

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
27 JUL 1999	6.3	921	138.7	8.4		4559.7
24 AUG 1999	6.0	940	130.4	8.2		4558.1
21 SEP 1999	5.9	934	129.9	8.3		4557.7
11 OCT 1999	6.3	934	138.1	8.3		4557.9
10 NOV 1999	7.5	980	127.9	8.4		4557.7
16 DEC 1999	7.1	934	136.0	8.4		4557.8

* Values Exceed Upper Control Limit

MW56S

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
27 JUL 1999	7.5	936	119.8	8.3		4567.9
24 AUG 1999	6.8	961	119.1	8.4		4567.3
21 SEP 1999	8.4	954	119.6	8.4		4567.0
11 OCT 1999	7.4	955	126.5	8.5		4566.9
10 NOV 1999	6.5	954	148.3	7.8		4566.5
16 DEC 1999	7.2	968	122.4	8.6		4566.4

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
26 JUL 1999	7.6	1480	114.2	8.0		4573.5
24 AUG 1999	7.4	1512	115.5	8.0		4573.1
21 SEP 1999	7.8	1501	118.3	7.9		4573.0
11 OCT 1999	7.4	1506	119.9	7.8		4573.1
09 NOV 1999	7.3	1502	119.4	7.7		4572.7
16 DEC 1999	7.8	1493	120.4	8.2		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,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	14.0	2234	178.9	7.7		4575.7
10 AUG 1999	14.5	2174	170.1	7.5		4575.5
13 SEP 1999	15.1	2186	173.3	7.5		4575.6
06 OCT 1999	15.5	2205	179.2	7.5		4575.5
02 NOV 1999	14.1	2221	179.4	7.4		4575.6
01 DEC 1999	14.4	2199	183.9	7.6		4576.2

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	11.0	1832	75.5	10.7	-1	4561.7
10 AUG 1999	10.4	1928	91.6	10.8	-1	4557.7
13 SEP 1999	10.2	1876	81.0	10.8	-1	4554.0
05 OCT 1999	10.5	1889	87.6	10.8	-1	4554.1
02 NOV 1999	10.5	1841	80.6	10.8	-1	4556.0
01 DEC 1999	10.4	1802	68.8	10.7	-1	4556.0

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	12.4	2151	162.8	7.9	-1	4568.0
10 AUG 1999	11.3	2153	149.8	7.7	-1	4567.7
13 SEP 1999	11.6	2167	151.6	7.6	-1	4567.4
05 OCT 1999	12.1	2170	156.6	7.7	-1	4567.5
02 NOV 1999	11.7	2145	155.4	7.5	-1	4567.9
01 DEC 1999	12.0	2126	150.9	7.7	-1	4568.1

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
21 JUL 1999	11.8	2398	145.3	7.6		4572.7
10 AUG 1999	11.0	2402	136.5	7.5		4572.6
13 SEP 1999	11.1	2413	134.2	7.5		4572.7
06 OCT 1999	11.6	2404	141.1	7.4		4572.6
02 NOV 1999	12.0	2382	140.9	7.3		4572.6
01 DEC 1999	11.8	2372	137.2	7.4		4572.5

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	14.1	2628	197.7	7.4		4554.1
10 AUG 1999	12.8	2638	185.9	7.5		4553.8
13 SEP 1999	13.0	2648	184.5	7.4		4553.9
06 OCT 1999	12.9	2643	181.7	7.4		4553.9
02 NOV 1999	13.4	2620	189.6	7.3		4554.0
01 DEC 1999	13.7	2607	187.6	7.4		4554.0

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	12.0	2731	230.3	7.4		4569.0
10 AUG 1999	11.1	2742	212.2	7.4		4569.0
13 SEP 1999	11.4	2759	216.0	7.3		4568.9
06 OCT 1999	12.1	2755	231.0	7.3		4568.8
02 NOV 1999	11.8	2742	233.6	7.2		4568.8
01 DEC 1999	12.7	2725	272.7	7.4		4568.5

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	13.4	2626	169.2	7.7	-1	4558.8
11 AUG 1999	12.1	2634	156.2	7.4	-1	4558.9
13 SEP 1999	12.8	2629	162.1	7.5	-1	4558.7
06 OCT 1999	13.6	2644	170.6	7.6	-1	4558.6
02 NOV 1999	13.8	2631	177.4	7.6	-1	4558.7
01 DEC 1999	12.9	2620	163.6	7.5	-1	4558.7

* Values Exceed Upper Control Limit

MW98S

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	12.8	2586	172.7	7.5		4556.2
11 AUG 1999	11.9	2575	161.7	7.4		4556.0
13 SEP 1999	11.9	2563	161.5	7.3		4555.9
06 OCT 1999	12.4	2587	158.9	7.4		4556.0
02 NOV 1999	12.6	2576	167.2	7.5		4556.1
01 DEC 1999	12.6	2552	156.0	7.6		4555.4

* Values Exceed Upper Control Limit

MW100S

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
11 AUG 1999	12.5	3630	411.8	11.1		4554.0
13 SEP 1999	12.3	3732	458.0	11.3		4553.9
06 OCT 1999	13.5	3772	474.0	11.1		4553.8
02 NOV 1999	9.3	3765	461.8	11.3		4553.9
01 DEC 1999	12.4	3941	517.8	11.4		4553.6

* Values Exceed Upper Control Limit

MW112S

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	8.1	735	139.2	8.1		4536.6
11 AUG 1999	7.5	730	129.6	8.1		4536.4
13 SEP 1999	7.5	724	129.9	8.3		4536.2
06 OCT 1999	7.8	735	132.5	8.0		4535.6
02 NOV 1999	8.7	727	143.6	8.4		4536.4
01 DEC 1999	8.1	727	131.5	8.3		4536.4

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	6.5	1175	99.2	8.2		4610.8
17 AUG 1999	6.4	1166	88.8	8.2		4610.7
20 SEP 1999	6.2	1145	94.9	8.2		4610.5
04 OCT 1999	6.1	1154	92.3	8.2		4610.7
17 NOV 1999	6.6	1120	101.9	8.1		4610.8
16 DEC 1999	6.6	1155	91.5	8.2		4610.7

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	6.6	1066	106.0	7.8		4598.0
17 AUG 1999	6.4	1079	116.8	7.9		4597.9
20 SEP 1999	6.8	1093	127.9	8.3		4598.0
04 OCT 1999	6.7	1082	112.2	8.0		4597.9
17 NOV 1999	8.7	1085	139.6	8.1		4597.9
16 DEC 1999	7.6	1091	116.0	8.0		4597.9

* Values Exceed Upper Control Limit

4SM-4

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-8 2nd Half,19

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	6.5	882	123.9	8.2		4594.7
17 AUG 1999	6.8	879	119.2	8.1		4594.3
20 SEP 1999	6.2	881	118.0	8.2		4594.4
04 OCT 1999	6.1	874	117.9	8.2		4594.3
17 NOV 1999	6.6	869	121.7	8.0		4594.2
16 DEC 1999	6.6	879	119.5	8.1		4593.8

* Values Exceed Upper Control Limit

4SM-8

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	8.9	506	249.6	8.6		4587.3
17 AUG 1999	9.0	500	242.4	8.2		4587.8
20 SEP 1999	9.0	505	237.7	8.2		4587.3
04 OCT 1999	9.3	500	238.5	8.2		4587.1
17 NOV 1999	10.0	496	246.0	8.2		4587.0
16 DEC 1999	10.0	499	249.5	8.2		4586.7

* 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

Well I.D. 5SM1 2nd Half,19

Water Quality Parameters	Chloride	Specific 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						
13 JUL 1999	7.8	1240	92.1	8.3		4632.5
28 JUL 1999	8.1	1252	94.2	8.0		4632.4
10 AUG 1999	8.2	1259	94.2	7.8		4632.5
23 AUG 1999	8.4	1260	108.0	8.0		4632.3
07 SEP 1999	8.0	1233	109.2	7.8		4632.2
20 SEP 1999	7.8	1245	107.6	8.3		4632.6
04 OCT 1999	8.2	1244	107.5	8.3		4632.7
19 OCT 1999	8.1	1249	105.0	8.2		4632.5
03 NOV 1999	7.5	1247	95.5	7.8		4632.[illegible]
16 NOV 1999	7.3	1246	99.2	8.3		4632.[illegible]
30 NOV 1999	7.4	1237	100.2	8.3		4632.7
14 DEC 1999	7.5	1229	90.6	8.3		4632.9
27 DEC 1999	7.5	1232	90.0	8.2		4632.6

* Values Exceed Upper Control Limit

5SM1

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
13 JUL 1999	7.2	1186	101.1	8.1		4677.9
28 JUL 1999	6.8	1199	98.8	7.9		4678.0
10 AUG 1999	6.5	1192	95.0	8.0		4677.9
23 AUG 1999	6.5	1196	95.2	7.9		4677.9
08 SEP 1999	7.0	1183	100.3	8.1		4677.8
21 SEP 1999	6.5	1196	93.1	8.0		4677.8
05 OCT 1999	6.7	1189	98.3	7.9		4677.8
19 OCT 1999	7.0	1191	98.2	8.1		4678.0
03 NOV 1999	6.9	1191	97.3	8.0		4677.7
16 NOV 1999	7.0	1194	98.0	8.0		4677.7
30 NOV 1999	6.8	1182	96.3	8.1		4677.2
14 DEC 1999	6.7	1174	94.6	8.0		4677.5
28 DEC 1999	6.6	1183	94.2	8.0		4677.4

* Values Exceed Upper Control Limit 5SM2

Negative U3O8 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,199

Water Quality Parameters	Chloride	Specific 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						
13 JUL 1999	7.8	1286	92.6	8.5		4677.8
28 JUL 1999	7.3	1306	94.8	8.0		4677.6
10 AUG 1999	7.0	1293	87.6	8.4		4677.6
25 AUG 1999	7.0	1288	90.0	8.2		4677.3
08 SEP 1999	7.0	1289	90.9	8.2		4677.6
21 SEP 1999	7.0	1302	89.7	8.3		4677.6
05 OCT 1999	7.0	1282	97.4	8.4		4677.7
19 OCT 1999	7.5	1293	91.5	8.3		4677.4
03 NOV 1999	7.3	1285	89.8	8.3		4676.6
16 NOV 1999	7.3	1298	89.5	8.5		4677.5
30 NOV 1999	7.3	1280	87.6	8.5		4677.7
14 DEC 1999	7.1	1269	86.8	8.5		4677.3
28 DEC 1999	7.3	1272	87.3	8.4		4677.0

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
13 JUL 1999	5.6	1388	105.3	7.8		4684.7
28 JUL 1999	6.2	1383	111.3	7.7		4684.2
10 AUG 1999	5.8	1378	107.6	7.8		4684.0
25 AUG 1999	5.8	1383	109.1	7.6		4683.7
08 SEP 1999	5.8	1391	110.5	7.9		4683.8
21 SEP 1999	5.7	1394	106.4	7.8		4683.5
05 OCT 1999	5.8	1374	116.3	7.7		4683.5
19 OCT 1999	6.2	1377	109.5	7.7		4683.5
03 NOV 1999	6.1	1370	110.9	7.7		4683.3
16 NOV 1999	6.3	1379	111.8	7.8		4683.3
30 NOV 1999	5.9	1396	111.8	7.8		4683.3
14 DEC 1999	5.9	1377	110.8	7.8		4683.3
28 DEC 1999	5.9	1371	109.8	7.8		4683.3

* 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,199

Water Quality Parameters	Chloride	Specific 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						
13 JUL 1999	8.8	658	177.8	8.5		4671.9
28 JUL 1999	9.5	655	183.9	8.3		4672.1
10 AUG 1999	8.9	654	182.1	8.4		4672.2
25 AUG 1999	8.9	652	179.5	8.4		4672.1
08 SEP 1999	9.0	652	181.6	8.5		4672.1
21 SEP 1999	9.0	659	181.5	8.3		4672.1
05 OCT 1999	9.3	646	187.0	8.4		4672.1
19 OCT 1999	9.5	655	185.7	8.4		4671.9
03 NOV 1999	9.4	653	189.4	8.3		4671.9
16 NOV 1999	9.3	654	185.2	8.4		4671.9
30 NOV 1999	9.4	648	179.0	8.5		4671.8
14 DEC 1999	9.4	647	182.9	8.4		4671.8
28 DEC 1999	9.6	644	182.2	8.4		4671.8

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
14 JUL 1999	8.1	1366	152.2	7.8		4669.2
29 JUL 1999	8.4	1366	151.4	8.0		4669.1
11 AUG 1999	7.6	1372	140.6	7.7		4669.1
25 AUG 1999	7.8	1380	145.5	7.7		4669.0
09 SEP 1999	8.1	1362	153.4	7.9		4668.6
21 SEP 1999	7.9	1378	152.1	7.8		4668.7
05 OCT 1999	8.2	1379	146.6	7.8		4668.7
19 OCT 1999	8.2	1366	149.3	7.9		4668.8
03 NOV 1999	8.0	1370	148.0	7.9		4668.4
16 NOV 1999	8.1	1366	146.9	8.0		4668.9
30 NOV 1999	8.0	1356	142.1	8.0		4668.9
14 DEC 1999	7.9	1367	144.2	7.9		4669.0
28 DEC 1999	8.2	1372	144.6	8.0		4668.7

* Values Exceed Upper Control Limit 5SM7

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5 INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. WCOW-04 2nd Half,19[illegible]

Water Quality Parameters	Chloride	Specific 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						
13 JUL 1999	6.4	974	109.7	8.4		4654.1
28 JUL 1999	6.3	986	108.8	8.3		4654.2
10 AUG 1999	6.1	974	102.4	8.4		4654.0
23 AUG 1999	6.0	980	102.8	8.2		4654.0
08 SEP 1999	6.0	969	104.2	8.2		4654.4
20 SEP 1999	6.0	978	102.1	8.1		4654.4
04 OCT 1999	6.1	973	105.7	8.1		4654.8
19 OCT 1999	6.3	979	104.9	8.3		4654.6
03 NOV 1999	6.3	973	106.3	8.2		4654.5
16 NOV 1999	6.5	974	106.8	8.2		4654.5
30 NOV 1999	6.3	975	104.0	8.3		4654.6
14 DEC 1999	6.2	966	102.2	8.3		4654.7
27 DEC 1999	6.7	964	109.9	8.3		4654.4

* Values Exceed Upper Control Limit

WCOW-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,1999

Water Quality Parameters	Chloride	Specific 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	1966	289.1			
Date						
08 JUL 1999	7.9	1164	100.5	8.3		4703.9
22 JUL 1999	7.8	1166	100.3	8.3		4703.8
04 AUG 1999	7.2	1175	97.6	8.3		4703.7
19 AUG 1999	7.3	1158	98.1	8.3		4703.6
01 SEP 1999	7.7	1165	105.4	8.3		4703.7
15 SEP 1999	7.2	1184	98.1	8.1		4703.6
29 SEP 1999	7.0	1178	96.4	8.3		4703.9
13 OCT 1999	7.5	1185	100.4	8.3		4703.8
27 OCT 1999	7.4	1164	100.8	8.3		4703.9
08 NOV 1999	7.6	1169	102.8	8.4		4704.0
22 NOV 1999	7.1	1132	98.4	8.5		4700.5
08 DEC 1999	7.1	1130	97.6	8.3		4703.9
20 DEC 1999	7.7	1175	100.7	8.3		4703.6

* 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,19

Water Quality Parameters	Chloride	Specific 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						
08 JUL 1999	8.4	1996	89.1	7.9		4707.6
22 JUL 1999	7.7	1978	83.7	7.9		4707.4
04 AUG 1999	7.6	1986	83.8	7.8		4707.2
19 AUG 1999	7.7	1981	84.8	7.9		4707.3
01 SEP 1999	7.7	1976	84.8	7.8		4707.3
15 SEP 1999	7.4	2003	83.7	7.7		4707.6
29 SEP 1999	7.4	2000	82.5	7.8		4707.5
13 OCT 1999	8.0	2012	86.6	7.8		4707.6
27 OCT 1999	7.8	1978	86.0	7.9		4707.
08 NOV 1999	8.0	1965	86.9	7.9		4708.0
22 NOV 1999	7.6	1969	86.8	8.0		4707.8
08 DEC 1999	7.6	1962	83.7	7.9		4707.6
20 DEC 1999	8.2	1957	86.8	7.8		4707.5

* Values Exceed Upper Control Limit

6SM2

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
08 JUL 1999	8.5	1970	65.5	7.9		4716.2
22 JUL 1999	8.0	1958	64.1	7.9		4716.1
04 AUG 1999	7.7	1972	62.0	7.8		4716.1
19 AUG 1999	7.8	1959	62.9	7.9		4716.8
01 SEP 1999	7.7	1958	65.2	7.9		4716.1
15 SEP 1999	7.6	2013	69.3	7.6		4715.9
29 SEP 1999	7.7	1986	65.4	7.7		4715.9
13 OCT 1999	8.1	1997	66.5	7.9		4710.5
27 OCT 1999	8.1	1946	66.6	7.9		4710.1
08 NOV 1999	8.4	1968	68.8	8.0		4712.2
22 NOV 1999	7.8	1969	71.6	8.0		4715.8
08 DEC 1999	7.7	1960	66.9	7.9		4716.1
20 DEC 1999	8.1	1967	68.0	7.8		4716.3

* Values Exceed Upper Control Limit 6SM3

Negative U3O8 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,19[illegible]

Water Quality Parameters	Chloride	Specific 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						
08 JUL 1999	7.0	1604	51.7	8.3		4716.6
22 JUL 1999	6.5	1596	52.7	8.3		4716.6
04 AUG 1999	6.4	1609	54.7	8.1		4716.4
19 AUG 1999	6.8	1597	55.5	8.3		4716.5
01 SEP 1999	6.4	1594	54.9	8.3		4716.5
15 SEP 1999	6.2	1623	52.7	8.0		4716.5
29 SEP 1999	6.1	1608	45.3	8.2		4716.5
13 OCT 1999	6.7	1627	54.8	8.3		4716.4
27 OCT 1999	6.5	1588	56.2	8.4		4716.[illegible]
08 NOV 1999	7.0	1608	59.1	8.3		4716.[illegible]
22 NOV 1999	6.6	1589	52.7	8.5		4716.3
08 DEC 1999	6.6	1580	52.5	8.3		4716.5
20 DEC 1999	7.0	1607	61.2	8.2		4716.7

* 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,1999

Water Quality Parameters	Chloride	Specific 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	1966	289.1			
Date						
08 JUL 1999	8.2	1615	98.1	8.0		4712.8
22 JUL 1999	7.7	1602	94.8	8.0		4712.6
04 AUG 1999	7.4	1615	92.0	7.8		4712.8
19 AUG 1999	7.7	1611	94.8	7.9		4712.8
01 SEP 1999	7.3	1604	96.6	7.9		4712.4
15 SEP 1999	7.3	1632	95.8	7.7		4712.6
29 SEP 1999	7.4	1623	92.9	7.8		4712.6
13 OCT 1999	7.2	1637	99.8	8.0		4712.5
27 OCT 1999	8.0	1592	96.4	8.0		4712.4
08 NOV 1999	8.1	1599	95.6	8.0		4712.9
23 NOV 1999	7.8	1600	95.8	8.0		4712.7
08 DEC 1999	7.5	1583	92.2	8.0		4712.4
20 DEC 1999	7.8	1603	94.0	8.0		4712.8

* 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,199

Water Quality Parameters	Chloride	Specific 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	1966	289.1			
Date						
08 JUL 1999	11.9	505	260.0	8.4		4695.6
22 JUL 1999	12.1	501	247.9	8.3		4695.3
03 AUG 1999	11.7	510	245.3	8.3		4695.1
19 AUG 1999	11.4	502	244.6	8.3		4695.1
01 SEP 1999	11.3	500	242.7	8.3		4694.9
15 SEP 1999	11.1	510	242.2	8.1		4694.8
29 SEP 1999	11.4	508	243.9	8.2		4694.7
13 OCT 1999	11.9	511	252.6	8.3		4694.3
27 OCT 1999	11.8	497	250.0	8.3		4694.4
09 NOV 1999	11.8	499	246.4	8.3		4694.4
23 NOV 1999	11.5	491	246.0	8.3		4695.0
08 DEC 1999	11.2	495	242.3	8.3		4694.6
20 DEC 1999	11.7	500	243.2	8.3		4694.9

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
08 JUL 1999	11.8	502	259.4	8.4		4695.5
22 JUL 1999	11.1	505	244.3	8.3		4695.4
03 AUG 1999	11.0	504	246.7	8.3		4695.1
19 AUG 1999	10.8	498	243.3	8.4		4695.0
01 SEP 1999	11.0	496	246.4	8.4		4694.7
15 SEP 1999	10.9	504	242.5	8.2		4694.8
29 SEP 1999	10.9	502	240.0	8.3		4694.4
13 OCT 1999	11.5	511	256.9	8.4		4694.2
27 OCT 1999	11.2	498	247.4	8.4		4694.3
09 NOV 1999	11.5	498	249.8	8.4		4694.4
23 NOV 1999	11.3	490	252.1	8.4		4694.4
08 DEC 1999	11.2	492	242.1	8.4		4694.4
20 DEC 1999	11.3	495	242.8	8.4		4694.7

* 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,19[illegible]

Water Quality Parameters	Chloride	Specific 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						
08 JUL 1999	10.7	2261	53.7	7.7		4731.0
22 JUL 1999	10.2	2254	52.4	7.9		4731.2
03 AUG 1999	9.8	2271	51.7	7.6		4731.4
18 AUG 1999	9.7	2260	52.9	7.7		4731.5
31 AUG 1999	9.8	2261	53.8	7.7		4731.3
14 SEP 1999	9.8	2272	51.8	7.4		4731.2
28 SEP 1999	9.8	2223	52.6	7.7		4731.2
12 OCT 1999	10.1	2254	53.6	7.6		4731.2
27 OCT 1999	10.5	2248	54.4	7.9		4731.[illegible]
09 NOV 1999	10.3	2246	53.1	7.7		4731.8
23 NOV 1999	10.3	2247	54.1	7.9		4731.7
07 DEC 1999	10.6	2225	58.0	7.8		4731.7
20 DEC 1999	10.9	2230	53.5	7.7		4731.6

* Values Exceed Upper Control Limit 6SM8

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
08 JUL 1999	10.0	2149	21.6	9.6		4732.0
22 JUL 1999	9.4	2167	21.5	9.7		4732.4
03 AUG 1999	9.3	2199	20.4	9.6		4732.3
18 AUG 1999	9.0	2187	20.4	9.8		4732.4
31 AUG 1999	9.1	2171	20.1	9.8		4732.2
14 SEP 1999	9.0	2201	21.9	9.6		4732.2
28 SEP 1999	9.3	2145	19.7	9.6		4732.1
12 OCT 1999	9.4	2169	19.8	9.8		4732.3
27 OCT 1999	9.2	2173	18.7	9.7		4732.2
09 NOV 1999	9.4	2155	17.5	9.6		4732.6
23 NOV 1999	9.3	2159	20.7	9.9		4732.6
07 DEC 1999	9.4	2146	19.6	9.9		4732.6
20 DEC 1999	9.6	2160	18.2	9.7		4732.6

* Values Exceed Upper Control Limit 6SM9

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6 INTERIOR SHALLOW SAND MONITOR WELL

Well I.D. 6SM10 2nd Half,19

Water Quality Parameters	Chloride	Specific 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						
08 JUL 1999	10.6	670	253.6	8.4		4689.5
21 JUL 1999	10.8	663	250.4	8.6		4688.0
03 AUG 1999	10.3	665	238.7	8.5		4687.5
18 AUG 1999	10.5	650	235.5	8.5		4687.6
31 AUG 1999	10.4	661	239.4	8.6		4687.3
14 SEP 1999	10.0	659	232.3	8.5		4687.3
28 SEP 1999	10.6	658	237.1	8.5		4687.3
12 OCT 1999	10.9	663	244.4	8.5		4687.3
26 OCT 1999	10.6	665	246.3	8.4		4687.7
08 NOV 1999	10.5	673	245.1	8.4		4687.9
23 NOV 1999	10.5	657	245.7	8.5		4687.6
07 DEC 1999	10.4	659	239.6	8.4		4688.0
20 DEC 1999	10.7	673	237.9	8.4		4687.7

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
08 JUL 1999	13.7	2581	48.6	8.3		4732.2
21 JUL 1999	13.5	2584	58.7	8.7		4732.4
03 AUG 1999	13.1	2608	58.7	8.5		4732.7
18 AUG 1999	13.0	2582	56.5	8.6		4733.0
30 AUG 1999	13.2	2596	61.4	8.6		4733.0
14 SEP 1999	13.0	2628	60.8	8.4		4733.5
28 SEP 1999	13.2	2621	61.0	8.5		4733.5
12 OCT 1999	13.5	2610	66.8	8.4		4733.8
26 OCT 1999	13.8	2594	76.7	8.4		4733.6
08 NOV 1999	13.2	2618	65.1	8.1		4734.0
23 NOV 1999	13.9	2605	68.9	8.4		4734.2
07 DEC 1999	13.2	2600	82.0	8.3		4734.2
20 DEC 1999	13.1	2620	74.8	8.2		4734.3

* 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,19

Water Quality Parameters	Chloride	Specific 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						
08 JUL 1999	12.6	2658	109.8	7.7		4731.4
21 JUL 1999	12.0	2658	108.6	7.8		4731.6
03 AUG 1999	12.1	2652	106.9	7.8		4731.5
18 AUG 1999	12.8	2643	104.3	7.6		4731.8
30 AUG 1999	12.7	2642	103.7	7.8		4731.7
14 SEP 1999	12.7	2666	106.8	7.5		4732.0
28 SEP 1999	11.7	2643	99.3	7.6		4731.8
12 OCT 1999	12.2	2666	106.2	7.7		4731.9
26 OCT 1999	12.8	2661	103.9	7.7		4731.7
09 NOV 1999	13.1	2674	104.5	7.7		4732.3
23 NOV 1999	13.0	2674	103.1	7.6		4732.4
07 DEC 1999	12.7	2667	105.0	7.6		4732.4
20 DEC 1999	12.6	2686	108.9	7.8		4732.4

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
08 JUL 1999	12.8	2200	72.0	7.8		4731.0
22 JUL 1999	12.1	2210	69.5	7.8		4731.3
03 AUG 1999	11.9	2215	69.0	7.7		4731.1
18 AUG 1999	11.6	2208	67.0	7.8		4731.5
31 AUG 1999	11.9	2206	69.6	7.9		4731.3
14 SEP 1999	11.8	2224	68.0	7.5		4731.2
28 SEP 1999	12.1	2178	70.5	7.7		4731.2
12 OCT 1999	12.6	2195	72.3	7.7		4731.2
26 OCT 1999	12.3	2195	71.3	7.8		4731.2
09 NOV 1999	12.3	2192	71.0	7.7		4731.7
23 NOV 1999	12.0	2193	72.5	7.9		4731.3
07 DEC 1999	12.1	2183	73.5	7.8		4731.5
20 DEC 1999	12.2	2188	70.2	7.8		4731.7

* Values Exceed Upper Control Limit 6SM13

Negative U3O8 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,19

Water Quality Parameters	Chloride	Specific 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	1966	289.1			
Date						
08 JUL 1999	7.6	1105	129.2	8.5		4712.5
21 JUL 1999	7.6	1101	128.9	8.6		4712.4
03 AUG 1999	7.1	1104	121.1	8.4		4712.2
18 AUG 1999	7.0	1085	120.6	8.5		4712.4
31 AUG 1999	7.2	1103	124.1	8.5		4712.5
14 SEP 1999	7.0	1109	121.9	8.3		4712.3
28 SEP 1999	7.0	1097	122.6	8.4		4712.4
12 OCT 1999	7.5	1108	126.7	8.4		4712.3
26 OCT 1999	7.5	1112	127.4	8.4		4712.
08 NOV 1999	7.4	1114	126.3	8.4		4712.6
23 NOV 1999	7.3	1111	126.1	8.5		4712.4
07 DEC 1999	7.4	1094	124.3	8.5		4712.7
20 DEC 1999	7.3	1109	121.4	8.4		4712.6

* Values Exceed Upper Control Limit

6SM14

Negative U3O8 Grades Indicate Less Than Detection Limit.

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,1999

Water Quality Parameters	Chloride	Specific 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						
13 JUL 1999	11.0	609	147.9	8.5		4608.1
28 JUL 1999	10.7	620	148.1	8.4		4608.1
10 AUG 1999	10.0	608	139.5	8.4		4608.0
23 AUG 1999	9.9	609	139.4	8.3		4608.0
08 SEP 1999	11.0	598	139.3	8.4		4608.1
20 SEP 1999	9.9	609	139.0	8.3		4608.4
04 OCT 1999	10.4	602	148.9	8.3		4608.2
19 OCT 1999	10.8	606	145.2	8.5		4608.2
02 NOV 1999	10.2	605	146.6	8.3		4608.0
16 NOV 1999	10.4	609	142.9	8.4		4605.1
30 NOV 1999	10.2	608	139.0	8.4		4608.2
14 DEC 1999	10.2	602	138.7	8.4		4608.6
27 DEC 1999	10.6	609	135.8	8.4		4608.3

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
27 JUL 1999	9.5	610	132.1	8.6		4539.8
24 AUG 1999	8.9	614	125.8	8.5		4537.6
21 SEP 1999	9.1	617	124.9	8.5		4538.6
11 OCT 1999	9.7	623	130.4	8.5		4538.7
09 NOV 1999	9.7	623	123.7	8.5		4540.8
16 DEC 1999	9.7	622	127.5	8.6		4539.1

* Values Exceed Upper Control Limit

Negative U3O8 Grades Indicate Less Than Detection Limit.

MW45D

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 3 INTERIOR DEEP SAND MONITOR WELL

Well I.D. MW47D 2nd Half,1999

Water Quality Parameters	Chloride	Specific 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						
27 JUL 1999	9.5	600	141.5	8.8		4540.9
24 AUG 1999	8.8	625	124.5	8.6		4538.7
21 SEP 1999	9.1	618	125.8	8.6		4539.6
11 OCT 1999	9.6	632	133.1	8.6		4540.0
09 NOV 1999	9.5	619	127.6	8.6		4540.2
16 DEC 1999	9.4	621	128.9	8.7		4540.2

* Values Exceed Upper Control Limit

MW47D

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
27 JUL 1999	9.4	609	136.1	8.7		4544.2
24 AUG 1999	8.8	616	130.0	8.5		4541.7
21 SEP 1999	9.1	620	127.2	8.5		4543.4
11 OCT 1999	9.2	623	128.0	8.5		4543.2
09 NOV 1999	9.5	620	128.8	8.5		4544.0
16 DEC 1999	9.6	619	137.3	8.6		4543.1

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
27 JUL 1999	10.0	629	123.4	8.8		4537.7
24 AUG 1999	9.3	633	115.3	9.0		4536.5
21 SEP 1999	10.0	655	116.2	8.9		4536.8
12 OCT 1999	10.5	644	111.6	8.5		4536.6
10 NOV 1999	10.2	658	110.3	9.0		4537.9
19 DEC 1999	10.0	639	112.4	8.7		4537.7

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
26 JUL 1999	10.7	646	108.3	8.7		4547.2
24 AUG 1999	9.4	657	100.7	8.6		4545.5
21 SEP 1999	9.5	651	101.0	8.6		4546.0
11 OCT 1999	10.0	656	108.8	8.7		4545.5
09 NOV 1999	10.2	652	105.9	8.5		4545.6
16 DEC 1999	10.5	650	110.6	8.7		4546.4

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
26 JUL 1999	9.7	569	151.0	9.0		4544.7
24 AUG 1999	8.4	563	143.2	8.7		4546.5
21 SEP 1999	8.8	567	142.7	8.8		4546.6
11 OCT 1999	9.0	571	143.8	8.8		4546.8
10 NOV 1999	10.1	595	140.3	9.0		4547.5
16 DEC 1999	10.4	565	141.7	8.9		4547.9

* 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

Well I.D. MW57D

2nd Half,1999

Water Quality Parameters	Chloride	Specific 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						
27 JUL 1999	10.2	646	106.0	8.6		4549.9
24 AUG 1999	10.1	644	104.2	8.5		4550.9
21 SEP 1999	10.4	636	103.1	8.5		4551.0
11 OCT 1999	11.0	643	109.6	8.6		4550.8
10 NOV 1999	11.1	646	106.7	8.5		4551.6
16 DEC 1999	11.6	639	110.9	8.7		4552.4

* 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,1999

Water Quality Parameters	Chloride	Specific 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							
26 JUL 1999	8.3	535	170.3	*	9.0		4557.9
24 AUG 1999	8.7	594	123.0		9.1		4558.5
21 SEP 1999	9.0	584	127.6		9.1		4557.6
11 OCT 1999	8.6	552	154.2	*	9.1		4557.5
09 NOV 1999	9.2	605	123.0		9.0		4558.0
16 DEC 1999	8.3	533	150.8		9.2		4558.6

* 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

Well I.D. MW67D

2nd Half,1999

Water Quality Parameters	Chloride	Specific 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							
22 JUL 1999	9.1	573	169.1	*	8.9		4537.4
10 AUG 1999	8.7	577	162.1	*	8.8		4536.9
13 SEP 1999	9.3	573	163.3	*	8.8		4530.8
06 OCT 1999	9.0	573	169.5	*	8.8		4530.1
02 NOV 1999	9.1	567	168.9	*	8.8		4536.7
01 DEC 1999	9.3	563	166.1	*	8.8		4536.6

* 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,1999

Water Quality Parameters	Chloride	Specific 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							
22 JUL 1999	9.7	635	128.9		8.8		4528.6
10 AUG 1999	8.8	628	128.1		8.7		4538.0
13 SEP 1999	8.7	610	137.4	*	8.8		4531.6
05 OCT 1999	9.2	627	137.6	*	8.8		4530.9
02 NOV 1999	9.5	631	128.8		8.8		4537.8
01 DEC 1999	9.3	619	130.0		8.8		4537.5

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	9.6	645	123.1	8.9		4540.3
10 AUG 1999	9.0	647	117.5	8.8		4539.7
13 SEP 1999	9.0	644	119.6	8.8		4539.6
05 OCT 1999	9.7	648	127.4	8.9		4538.7
02 NOV 1999	9.3	641	121.7	8.8		4538.5
01 DEC 1999	9.6	631	126.2	8.9		4538.6

* 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,1999

Water Quality Parameters	Chloride	Specific 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							
21 JUL 1999	9.1	567	172.6	*	8.6		4537.0
10 AUG 1999	8.8	585	147.9	*	8.5		4536.4
13 SEP 1999	8.9	587	146.8	*	8.4		4536.0
06 OCT 1999	9.7	602	147.6	*	8.4		4535.8
02 NOV 1999	9.1	589	147.2	*	8.6		4536.3
01 DEC 1999	9.6	585	150.5	*	8.6		4535.9

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	10.1	664	109.1	8.6		4535.4
10 AUG 1999	9.3	663	103.5	8.4		4535.0
13 SEP 1999	9.4	653	101.9	8.4		4534.8
06 OCT 1999	9.7	665	104.5	8.3		4534.2
02 NOV 1999	9.3	661	107.3	8.6		4535.0
01 DEC 1999	10.0	657	103.5	8.5		4535.0

* Values Exceed Upper Control Limit

MW93D

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	10.2	659	115.6	8.5		4536.1
10 AUG 1999	9.3	657	113.2	8.4		4535.6
13 SEP 1999	9.3	649	106.4	8.5		4535.5
06 OCT 1999	9.9	658	111.4	8.3		4535.1
02 NOV 1999	9.7	654	111.0	8.5		4535.6
01 DEC 1999	9.9	649	109.4	8.4		4535.5

* Values Exceed Upper Control Limit

MW95D

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	10.9	633	114.0	8.5		4535.5
10 AUG 1999	10.0	636	106.6	8.4		4535.2
13 SEP 1999	10.1	618	109.4	8.4		4535.2
06 OCT 1999	10.3	619	114.0	8.4		4534.7
02 NOV 1999	10.5	613	115.0	8.6		4535.2
01 DEC 1999	10.4	610	114.3	8.4		4535.1

* 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,1999

Water Quality Parameters	Chloride	Specific 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							
22 JUL 1999	10.9	562	166.3	*	8.6		4532.4
11 AUG 1999	9.8	589	129.0		8.5		4532.2
13 SEP 1999	9.8	570	143.4	*	8.6		4532.2
06 OCT 1999	10.4	582	141.3		8.4		4531.7
02 NOV 1999	10.6	576	142.5		8.6		4532.2
01 DEC 1999	10.1	563	149.5	*	8.6		4531.7

* 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,1999

Water Quality Parameters	Chloride	Specific 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							
22 JUL 1999	11.0	557	174.1	*	8.8		4532.8
11 AUG 1999	9.8	598	129.0		8.7		4532.8
13 SEP 1999	10.1	553	160.3	*	8.8		4532.7
06 OCT 1999	10.2	621	121.1		8.6		4532.2
02 NOV 1999	10.6	568	155.6	*	8.9		4532.6
01 DEC 1999	10.5	536	179.7	*	8.9		4532.2

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	8.7	574	124.0	8.7		4574.7
17 AUG 1999	8.5	565	120.6	8.6		4573.6
20 SEP 1999	8.5	569	121.8	8.7		4573.9
04 OCT 1999	8.7	566	125.1	8.6		4574.9
17 NOV 1999	8.4	561	119.4	8.6		4575.3
16 DEC 1999	8.5	568	119.7	8.6		4574.9

* Values Exceed Upper Control Limit

4DM-1

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-4

2nd Half,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	8.0	515	144.6	8.8		4567.6
17 AUG 1999	7.7	507	139.6	8.6		4566.2
20 SEP 1999	7.9	515	143.3	8.7		4566.6
04 OCT 1999	7.4	512	137.5	8.7		4566.2
17 NOV 1999	8.1	510	143.0	8.7		4566.8
16 DEC 1999	7.9	514	138.6	8.6		4566.7

* Values Exceed Upper Control Limit

4DM-4

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-8 2nd Half,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	8.7	524	150.7	8.9		4561.9
17 AUG 1999	8.5	517	144.9	8.6		4560.2
20 SEP 1999	8.3	522	141.9	8.7		4561.0
04 OCT 1999	8.2	517	142.6	8.6		4561.0
17 NOV 1999	8.7	515	147.7	8.6		4561.3
16 DEC 1999	8.6	520	143.4	8.6		4561.5

* Values Exceed Upper Control Limit

4DM-8

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
22 JUL 1999	8.3	534	136.8	8.7		4570.0
17 AUG 1999	8.4	524	130.5	8.5		4569.9
20 SEP 1999	7.7	531	130.0	8.6		4570.4
04 OCT 1999	7.8	529	129.0	8.6		4570.4
17 NOV 1999	8.2	524	133.7	8.6		4570.0
16 DEC 1999	8.3	529	139.9	8.5		4570.3

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
13 JUL 1999	6.1	426	211.9	9.0		4608.9
28 JUL 1999	5.6	431	210.5	9.1		4609.0
10 AUG 1999	5.3	427	201.2	9.0		4609.1
23 AUG 1999	5.1	423	199.2	8.7		4609.0
07 SEP 1999	5.2	418	202.4	8.8		4609.1
20 SEP 1999	5.2	420	197.5	8.7		4609.0
04 OCT 1999	5.4	423	203.3	8.8		4609.0
19 OCT 1999	5.7	418	205.1	8.9		4609.1
03 NOV 1999	5.4	419	206.7	8.8		4609.1
16 NOV 1999	5.4	421	207.1	8.9		4609.4
30 NOV 1999	5.1	420	202.0	8.9		4609.3
14 DEC 1999	5.2	413	197.5	8.8		4609.5
27 DEC 1999	5.2	417	199.0	8.9		4609.3

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
13 JUL 1999	11.3	622	121.1	8.8		4610.4
28 JUL 1999	11.2	634	122.7	8.8		4610.6
10 AUG 1999	10.5	634	117.4	9.2		4610.4
23 AUG 1999	10.4	629	113.5	8.6		4610.1
08 SEP 1999	10.1	622	113.3	8.8		4610.6
21 SEP 1999	10.7	631	117.3	8.6		4610.8
05 OCT 1999	10.3	626	115.7	8.7		4610.8
19 OCT 1999	11.0	621	117.5	8.8		4610.7
03 NOV 1999	10.8	623	117.1	8.7		4610
16 NOV 1999	10.7	625	117.5	8.7		4610.8
30 NOV 1999	10.9	622	116.8	8.7		4610.6
14 DEC 1999	10.8	613	114.5	8.7		4611.2
28 DEC 1999	11.0	616	119.9	8.6		4610.9

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
13 JUL 1999	10.9	558	110.5	8.6		4607.9
28 JUL 1999	10.7	570	109.8	8.6		4607.9
10 AUG 1999	9.9	566	103.4	8.4		4608.1
25 AUG 1999	10.2	560	100.7	8.4		4607.9
08 SEP 1999	9.9	558	103.2	8.6		4608.1
21 SEP 1999	9.8	567	101.3	8.5		4608.2
05 OCT 1999	10.1	561	107.2	8.6		4608.3
19 OCT 1999	10.6	558	106.9	8.8		4608.2
03 NOV 1999	10.5	561	106.4	8.6		4608.3
16 NOV 1999	10.5	564	112.6	8.6		4608.4
30 NOV 1999	10.4	559	104.8	8.7		4608.5
14 DEC 1999	10.5	553	106.5	8.7		4608.8
28 DEC 1999	10.4	554	105.2	8.6		4608.3

* Values Exceed Upper Control Limit 5DM3

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
13 JUL 1999	5.6	428	218.2	8.7		4608.1
28 JUL 1999	5.5	440	216.6	8.7		4608.2
10 AUG 1999	5.2	429	207.9	8.6		4608.3
23 AUG 1999	5.2	431	205.6	8.6		4608.2
08 SEP 1999	5.1	426	204.2	8.7		4608.5
20 SEP 1999	5.1	429	208.5	8.7		4608.5
04 OCT 1999	5.4	427	210.2	8.7		4608.5
19 OCT 1999	5.7	422	209.5	8.7		4608.5
03 NOV 1999	5.3	426	212.4	8.7		4608.[illegible]
16 NOV 1999	5.6	428	215.2	8.7		4608.6
30 NOV 1999	5.2	425	207.0	8.7		4608.7
14 DEC 1999	5.1	421	204.2	8.7		4609.0
27 DEC 1999	5.5	424	204.9	8.8		4608.6

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
13 JUL 1999	5.9	453	239.1	8.6		4605.8
28 JUL 1999	5.9	454	236.3	8.5		4605.7
10 AUG 1999	5.8	453	230.3	8.5		4605.7
25 AUG 1999	5.6	449	223.2	8.5		4605.8
08 SEP 1999	5.5	447	223.0	8.6		4605.8
21 SEP 1999	5.9	452	222.9	8.5		4605.7
05 OCT 1999	5.5	445	228.6	8.5		4606.0
19 OCT 1999	5.8	445	233.4	8.6		4606.0
03 NOV 1999	5.8	447	234.7	8.5		4606.0
16 NOV 1999	5.8	454	233.2	8.6		4606.2
30 NOV 1999	5.4	449	224.5	8.6		4606.2
14 DEC 1999	5.6	440	223.8	8.6		4606.2
28 DEC 1999	5.5	439	224.6	8.6		4606.2

* Values Exceed Upper Control Limit

5DM5

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
14 JUL 1999	7.1	520	243.9	8.3		4605.7
29 JUL 1999	7.9	518	251.2	8.6		4605.9
11 AUG 1999	7.0	517	235.6	8.3		4605.7
25 AUG 1999	6.9	516	234.4	8.4		4605.7
09 SEP 1999	6.9	521	237.7	8.4		4605.8
21 SEP 1999	6.9	523	237.9	8.4		4605.6
05 OCT 1999	7.2	519	242.5	8.5		4605.8
19 OCT 1999	7.2	514	240.9	8.7		4606.0
03 NOV 1999	7.2	521	244.6	8.6		4606.[illegible]
16 NOV 1999	7.1	518	241.8	8.6		4606.1
30 NOV 1999	7.0	519	234.7	8.7		4606.1
14 DEC 1999	7.0	520	235.9	8.6		4605.7
28 DEC 1999	7.4	518	236.3	8.5		4605.8

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
13 JUL 1999	8.3	463	227.2	8.6		4604.2
28 JUL 1999	8.5	464	236.1	8.5		4604.1
10 AUG 1999	8.2	458	225.7	8.5		4604.1
25 AUG 1999	8.3	459	223.7	8.4		4604.1
08 SEP 1999	8.4	458	228.9	8.6		4604.3
21 SEP 1999	8.4	465	222.5	8.5		4604.4
05 OCT 1999	8.6	455	229.2	8.5		4606.4
19 OCT 1999	8.7	459	231.8	8.6		4606.4
03 NOV 1999	8.9	460	235.0	8.5		4604.5
16 NOV 1999	8.8	461	232.3	8.5		4604.8
30 NOV 1999	8.7	459	229.8	8.6		4604.6
14 DEC 1999	8.6	455	227.1	8.6		4604.8
28 DEC 1999	8.6	455	224.6	8.6		4604.6

* Values Exceed Upper Control Limit

WCOW-37D

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	µ mho/cm	mg/l as $CaCO_3$		mg/l	msl
Upper Control Limit	21.9	1682	129.4			
Date						
08 JUL 1999	8.6	798	96.1	8.2		4593.8
22 JUL 1999	8.4	797	96.0	8.4		4591.9
04 AUG 1999	7.7	806	89.4	8.2		4587.3
19 AUG 1999	8.0	798	91.8	8.2		4586.6
01 SEP 1999	8.1	794	94.2	8.3		4586.8
15 SEP 1999	8.1	806	94.5	8.1		4585.9
29 SEP 1999	7.8	808	90.1	8.2		4586.6
13 OCT 1999	8.2	808	94.5	8.4		4587.8
27 OCT 1999	8.1	804	93.4	8.2		4588.[illegible]
08 NOV 1999	8.5	800	94.7	8.3		4589.7
22 NOV 1999	7.9	797	92.0	8.4		4589.2
08 DEC 1999	8.0	790	91.8	8.3		4590.8
20 DEC 1999	8.2	800	91.3	8.3		4588.7

* Values Exceed Upper Control Limit

6DM1

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	µ mho/cm	mg/l as $CaCO_3$		mg/l	msl
Upper Control Limit	21.9	1682	129.4			
Date						
08 JUL 1999	6.6	1132	67.7	9.2		4595.7
22 JUL 1999	6.8	1141	68.9	9.3		4593.2
04 AUG 1999	6.3	1140	60.7	9.1		4587.6
19 AUG 1999	9.4	1135	68.7	9.4		4588.4
01 SEP 1999	9.8	1128	65.9	9.4		4587.5
15 SEP 1999	7.2	1148	65.2	9.1		4586.6
29 SEP 1999	6.2	1139	61.2	9.3		4587.3
13 OCT 1999	6.7	1154	67.4	9.4		4588.9
27 OCT 1999	7.2	1116	67.5	9.4		4589.1
08 NOV 1999	7.0	1139	70.2	9.1		4589.8
22 NOV 1999	6.5	1131	67.0	9.3		4590.1
08 DEC 1999	6.6	1128	65.0	9.3		4592.6
20 DEC 1999	6.6	1140	65.5	9.1		4590.6

* Values Exceed Upper Control Limit

6DM2

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	µ mho/cm	mg/l as $CaCO_3$		mg/l	msl
Upper Control Limit	21.9	1682	129.4			
Date						
08 JUL 1999	6.8	1142	80.3	8.0		4598.3
22 JUL 1999	6.2	1149	75.8	8.1		4594.7
04 AUG 1999	6.1	1155	74.8	8.0		4587.8
19 AUG 1999	6.1	1142	74.8	8.0		4588.8
01 SEP 1999	6.0	1140	74.0	8.2		4588.3
15 SEP 1999	5.8	1156	72.9	7.9		4587.3
29 SEP 1999	6.0	1155	73.1	8.1		4588.5
13 OCT 1999	6.3	1170	77.2	8.1		4590.4
27 OCT 1999	6.4	1140	79.8	8.2		4590
08 NOV 1999	6.4	1148	76.3	8.2		4591.3
22 NOV 1999	6.0	1148	76.8	8.3		4591.8
08 DEC 1999	6.0	1135	73.6	8.2		4595.8
20 DEC 1999	6.1	1147	73.7	8.1		4592.7

* 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,1999

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	µ mho/cm	mg/l as $CaCO_3$		mg/l	msl
Upper Control Limit	21.9	1682	129.4			
Date						
08 JUL 1999	6.6	1151	76.9	8.1		4599.3
22 JUL 1999	6.6	1157	76.3	8.3		4595.2
04 AUG 1999	6.1	1154	71.5	8.1		4588.9
19 AUG 1999	6.7	1133	73.7	8.2		4589.5
01 SEP 1999	6.8	1133	76.1	8.3		4589.1
15 SEP 1999	6.0	1165	72.2	8.0		4588.5
29 SEP 1999	6.1	1155	73.4	8.2		4589.4
13 OCT 1999	6.3	1159	73.1	8.3		4591.1
27 OCT 1999	6.3	1144	75.1	8.3		4591.3
08 NOV 1999	6.6	1143	76.8	8.3		4592.2
22 NOV 1999	6.1	1152	75.5	8.4		4592.7
08 DEC 1999	6.0	1145	72.5	8.3		4595.6
20 DEC 1999	6.2	1152	76.7	8.2		4593.3

* Values Exceed Upper Control Limit

6DM4-2

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6 INTERIOR DEEP SAND MONITOR WELL

Well I.D. 6DM5 2nd Half,1999

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	µ mho/cm	mg/l as $CaCO_3$		mg/l	msl
Upper Control Limit	21.9	1682	129.4			
Date						
08 JUL 1999	6.6	1154	79.7	8.0		4602.5
22 JUL 1999	6.3	1162	75.9	8.0		4591.2
04 AUG 1999	5.8	1167	71.2	8.0		4589.9
19 AUG 1999	6.0	1160	79.0	8.1		4590.9
01 SEP 1999	6.1	1152	75.2	8.2		4590.4
15 SEP 1999	6.2	1176	77.5	7.9		4590.2
29 SEP 1999	6.1	1168	74.7	8.0		4591.3
13 OCT 1999	6.6	1180	81.2	8.1		4593.2
27 OCT 1999	6.4	1150	78.0	8.2		4593.[illegible]
08 NOV 1999	6.6	1156	76.2	8.0		4594.7
23 NOV 1999	6.5	1138	77.1	8.1		4594.6
08 DEC 1999	6.6	1145	76.2	8.1		4598.3
20 DEC 1999	6.3	1151	74.0	8.0		4593.7

* Values Exceed Upper Control Limit

6DM5

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	µ mho/cm	mg/l as $CaCO_3$		mg/l	msl
Upper Control Limit	21.9	1682	129.4			
Date						
07 JUL 1999	7.8	837	91.8	8.6		4612.5
21 JUL 1999	7.5	823	92.3	8.7		4603.2
03 AUG 1999	7.3	845	86.2	8.5		4599.0
18 AUG 1999	7.1	838	85.4	8.5		4597.9
31 AUG 1999	7.2	828	88.4	8.6		4597.2
14 SEP 1999	7.4	839	87.8	8.3		4597.4
28 SEP 1999	7.3	825	86.0	8.4		4601.5
12 OCT 1999	7.4	845	89.2	8.5		4601.8
27 OCT 1999	7.6	831	90.4	8.6		4604.1
09 NOV 1999	7.8	833	94.4	8.5		4603.7
23 NOV 1999	7.5	824	89.8	8.6		4604.5
07 DEC 1999	7.4	825	88.0	8.5		4603.6
20 DEC 1999	7.4	831	87.9	8.5		4597.7

* Values Exceed Upper Control Limit

6DM6

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	µ mho/cm	mg/l as $CaCO_3$		mg/l	msl
Upper Control Limit	21.9	1682	129.4			
Date						
07 JUL 1999	7.5	876	89.8	8.4		4623.6
21 JUL 1999	7.4	869	89.0	8.5		4606.1
03 AUG 1999	7.0	871	84.6	8.3		4605.3
18 AUG 1999	7.1	870	85.6	8.3		4606.6
30 AUG 1999	7.1	870	86.6	8.4		4605.2
14 SEP 1999	6.8	871	83.6	8.1		4606.6
28 SEP 1999	7.2	875	87.3	8.3		4613.3
12 OCT 1999	7.5	868	86.8	8.4		4611.1
26 OCT 1999	7.1	873	87.8	8.4		4613.[illegible]
08 NOV 1999	7.1	867	85.5	8.5		4611.6
23 NOV 1999	7.1	863	87.0	8.4		4612.3
07 DEC 1999	7.0	858	84.4	8.4		4611.1
20 DEC 1999	7.0	871	83.7	8.4		4604.9

* 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,1999

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	µ mho/cm	mg/l as $CaCO_3$		mg/l	msl
Upper Control Limit	21.9	1682	129.4			
Date						
07 JUL 1999	7.7	858	91.4	8.5		4617.8
21 JUL 1999	7.5	834	88.9	8.7		4603.8
03 AUG 1999	7.4	845	86.8	8.4		4600.9
18 AUG 1999	7.3	843	86.5	8.4		4601.2
31 AUG 1999	7.0	838	84.8	8.5		4599.5
14 SEP 1999	7.1	843	84.6	8.2		4600.7
28 SEP 1999	7.2	846	83.8	8.4		4605.8
12 OCT 1999	7.3	847	87.7	8.4		4604.6
26 OCT 1999	7.4	847	86.4	8.5		4608.0
08 NOV 1999	7.5	845	88.2	8.5		4606.8
23 NOV 1999	7.4	846	90.2	8.4		4607.1
07 DEC 1999	7.0	836	82.2	8.5		4606.5
20 DEC 1999	7.1	851	91.5	8.5		4602.3

* Values Exceed Upper Control Limit 6DM8

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	µ mho/cm	mg/l as $CaCO_3$		mg/l	msl
Upper Control Limit	21.9	1682	129.4			
Date						
07 JUL 1999	7.9	852	93.2	8.3		4611.8
21 JUL 1999	7.4	844	91.2	8.5		4603.0
03 AUG 1999	7.2	842	85.4	8.2		4600.5
18 AUG 1999	7.3	842	87.5	8.2		4600.4
31 AUG 1999	7.0	847	86.7	8.4		4599.4
14 SEP 1999	7.0	842	86.0	8.0		4599.8
28 SEP 1999	7.1	845	85.6	8.2		4603.4
12 OCT 1999	7.3	839	88.0	8.3		4603.0
26 OCT 1999	7.5	846	90.1	8.3		4604.9
08 NOV 1999	7.4	846	88.8	8.3		4604.3
23 NOV 1999	7.8	840	93.9	8.3		4604.7
07 DEC 1999	7.3	835	86.9	8.4		4604.3
20 DEC 1999	7.3	843	86.5	8.3		4601.3

* 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,1999

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	µ mho/cm	mg/l as $CaCO_3$		mg/l	msl
Upper Control Limit	21.9	1682	129.4			
Date						
07 JUL 1999	7.8	855	92.9	8.5		4612.1
21 JUL 1999	7.5	846	92.0	8.6		4603.9
03 AUG 1999	7.4	844	87.4	8.4		4600.4
18 AUG 1999	7.3	853	87.7	8.4		4600.0
31 AUG 1999	7.1	846	88.2	8.5		4598.8
14 SEP 1999	7.1	852	86.9	8.2		4599.3
28 SEP 1999	7.0	850	85.4	8.4		4602.6
12 OCT 1999	7.3	842	88.0	8.4		4602.7
26 OCT 1999	7.4	852	90.1	8.5		4604.6
08 NOV 1999	7.4	850	89.7	8.5		4603.7
23 NOV 1999	7.3	841	93.3	8.5		4605.2
07 DEC 1999	7.6	836	92.0	8.5		4604.6
20 DEC 1999	7.3	847	86.3	8.5		4602.0

* 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

Well I.D. 6DM11 2nd Half,1999

Water Quality Parameters	Chloride	Specific 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 1999	9.2	622	182.3	9.0		4619.8
21 JUL 1999	9.0	611	183.7	9.1		4608.5
03 AUG 1999	8.4	600	180.5	8.9		4605.4
18 AUG 1999	8.7	601	185.9	8.9		4604.1
30 AUG 1999	8.9	598	189.4	8.9		4602.9
14 SEP 1999	9.2	596	190.4	8.8		4603.4
28 SEP 1999	8.9	601	190.3	8.7		4606.7
12 OCT 1999	8.9	596	197.4	8.8		4606.1
26 OCT 1999	10.1	598	193.1	8.9		4609.[illegible]
08 NOV 1999	8.8	605	186.3	8.8		4610.3
23 NOV 1999	8.8	595	199.0	8.7		4610.2
07 DEC 1999	8.7	596	192.5	8.8		4609.9
20 DEC 1999	8.9	605	183.7	8.8		4608.6

* Values Exceed Upper Control Limit

6DM11

Negative U3O8 Grades Indicate Less Than Detection Limit.

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 6 INTERIOR DEEP SAND MONITOR WELL

Well I.D. 6DM12 2nd Half,1999

Water Quality Parameters	Chloride	Specific 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 1999	8.2	544	122.7	8.6		4620.1
21 JUL 1999	8.1	540	124.2	8.7		4609.7
03 AUG 1999	7.9	538	118.4	8.5		4606.3
18 AUG 1999	7.8	536	116.9	8.5		4605.1
30 AUG 1999	7.7	536	118.9	8.6		4604.0
14 SEP 1999	7.7	544	121.3	8.5		4604.0
28 SEP 1999	7.9	534	120.7	8.5		4607.2
12 OCT 1999	7.9	537	119.0	8.6		4607.0
26 OCT 1999	7.9	536	121.5	8.6		4609.5
09 NOV 1999	7.8	538	120.1	8.6		4610.9
23 NOV 1999	7.9	536	119.7	8.6		4611.0
07 DEC 1999	7.7	532	116.5	8.6		4611.0
20 DEC 1999	7.9	538	116.8	8.6		4609.8

* 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,1999

Water Quality Parameters	Chloride	Specific 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 1999	8.2	647	197.0	8.3		4617.1
22 JUL 1999	7.9	650	193.4	8.4		4607.5
03 AUG 1999	7.7	649	184.3	8.3		4604.3
18 AUG 1999	7.6	643	181.9	8.3		4602.8
31 AUG 1999	7.6	634	185.3	8.4		4601.6
14 SEP 1999	7.5	645	182.0	8.1		4601.7
28 SEP 1999	7.4	634	182.8	8.2		4604.4
12 OCT 1999	7.7	650	189.4	8.3		4604.3
26 OCT 1999	7.8	642	191.4	8.3		4606
09 NOV 1999	7.7	642	187.9	8.3		4608.1
23 NOV 1999	7.8	632	189.4	8.3		4608.2
07 DEC 1999	7.7	636	184.9	8.3		4608.1
20 DEC 1999	7.7	638	184.5	8.3		4607.3

* 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,1999

Water Quality Parameters	Chloride	Specific Conductance	Total Alkalinity	pH	Uranium	Piezometric Elevation
Units	mg/l	µ mho/cm	mg/l as $CaCO_3$		mg/l	msl
Upper Control Limit	21.9	1682	129.4			
Date						
07 JUL 1999	8.0	832	92.2	8.5		4607.1
21 JUL 1999	8.0	827	92.2	8.7		4601.1
03 AUG 1999	7.6	819	87.8	8.4		4596.9
18 AUG 1999	7.2	811	86.2	8.6		4596.5
31 AUG 1999	7.4	821	88.7	8.6		4595.2
14 SEP 1999	7.2	821	86.7	8.5		4595.2
28 SEP 1999	7.7	824	91.7	8.4		4598.0
12 OCT 1999	7.7	818	90.9	8.5		4598.6
26 OCT 1999	7.7	827	92.0	8.5		4600.1
08 NOV 1999	7.5	829	89.5	8.5		4600.2
23 NOV 1999	7.6	821	90.6	8.6		4599.4
07 DEC 1999	7.5	811	88.8	8.6		4600.8
20 DEC 1999	7.5	823	87.4	8.5		4598.3

* 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,1999

Water Quality 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						
21 JUL 1999	8.9	703	98.3	8.6		4527.7
10 AUG 1999	8.6	702	94.0	8.4		4524.9
13 SEP 1999	8.8	704	92.4	8.3		4522.3
06 OCT 1999	8.8	705	94.0	8.2		4521.2
02 NOV 1999	8.9	698	96.5	8.6		4520.8
01 DEC 1999	9.2	700	97.5	8.4		4523.4

* Values Exceed Action Level

MW78T

Negative U3O8 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,199

Water Quality 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						
21 JUL 1999	9.8	676	98.7	8.5		4513.3
10 AUG 1999	9.4	669	93.0	8.3		4509.8
13 SEP 1999	9.1	660	91.0	8.4		4506.9
05 OCT 1999	9.7	675	95.2	8.4		4504.8
02 NOV 1999	9.8	662	97.7	8.5		4507.8
01 DEC 1999	9.5	668	93.8	8.5		4508.6

* 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,1999

Water Quality Parameters	Chloride	Specific 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 1999	8.3	722	103.4	8.8		4604.8
29 JUL 1999	8.1	720	105.4	8.6		4607.1
11 AUG 1999	7.7	721	99.6	8.6		4609.0
25 AUG 1999	7.8	719	98.9	8.7		4609.3
09 SEP 1999	7.9	723	99.8	8.4		4609.3
21 SEP 1999	8.0	728	100.9	8.5		4611.0
05 OCT 1999	8.1	724	106.9	8.4		4610.8
19 OCT 1999	8.4	719	104.1	8.7		4610.9
03 NOV 1999	8.2	722	102.6	8.6		4610.3
16 NOV 1999	8.1	717	102.9	8.6		4609.8
30 NOV 1999	8.1	720	99.3	8.6		4608.7
14 DEC 1999	8.1	705	97.6	8.5		4608.4
29 DEC 1999	8.2	714	107.4	8.5		4607.8

* 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,199[illegible]

Water Quality Parameters	Chloride	Specific 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									
08 JUL 1999	6.0		1348		72.2		8.1		4620.6
22 JUL 1999	6.3		1369		85.4		7.9		4605.3
03 AUG 1999	11.8		1516		158.9	*	7.7		4595.3
18 AUG 1999	32.8	*	2039	*	423.0	*	7.0		4597.9
31 AUG 1999	27.1	*	2151	*	540.0	*	6.9		4594.2
14 SEP 1999	44.3	*	2231	*	497.0	*	6.9		4598.6
22 SEP 1999	55.6	*	2404	*	615.3	*	6.7		4602.3
28 SEP 1999	54.9	*	2410	*	596.0	*	6.5		4603.3
12 OCT 1999	52.5	*	2371	*	642.0	*	6.7		4605.[illegible]
27 OCT 1999	28.4	*	1900	*	340.4	*	7.2		4608.0
09 NOV 1999	21.8	*	1707	*	257.6	*	7.2		4608.4
23 NOV 1999	20.2	*	1659	*	227.0	*	7.4		4609.8
07 DEC 1999	22.0	*	1662	*	233.8	*	7.4		4609.0
20 DEC 1999	14.6		1509		153.3	*	7.6		4606.2

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
08 JUL 1999	9.7	1394	101.0 *	8.2		4621.2
22 JUL 1999	7.1	1374	85.7	8.0		4618.8
03 AUG 1999	6.7	1365	80.8	8.0		4612.6
19 AUG 1999	6.2	1339	79.1	8.0		4609.4
01 SEP 1999	6.1	1324	76.0	8.0		4607.0
15 SEP 1999	6.0	1345	74.1	7.7		4610.6
29 SEP 1999	5.7	1339	71.9	7.9		4614.8
13 OCT 1999	5.9	1344	77.1	7.9		4620.2
27 OCT 1999	6.2	1317	74.8	8.0		4622.0
09 NOV 1999	6.3	1319	74.3	7.9		4622.2
23 NOV 1999	6.6	1328	78.1	8.0		4626.8
08 DEC 1999	6.2	1311	71.0	7.9		4621.5
20 DEC 1999	6.1	1322	71.0	7.9		4622.0

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
08 JUL 1999	5.6	1292	74.7	8.3		4622.9
21 JUL 1999	5.5	1324	70.6	8.4		4616.1
03 AUG 1999	5.0	1310	67.6	8.2		4611.7
18 AUG 1999	5.0	1304	66.3	8.2		4615.6
31 AUG 1999	5.3	1317	67.5	8.2		4610.9
14 SEP 1999	5.1	1313	67.4	8.0		4614.2
28 SEP 1999	5.4	1308	68.2	8.3		4619.8
12 OCT 1999	5.7	1310	69.7	8.2		4623.4
26 OCT 1999	5.1	1317	68.1	8.1		4620.[illegible]
08 NOV 1999	5.2	1317	68.1	8.0		4616.0
23 NOV 1999	5.3	1311	71.2	8.3		4618.3
07 DEC 1999	5.2	1299	67.2	8.2		4615.2
20 DEC 1999	5.2	1307	70.0	8.2		4605.0

* 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,1999

Water Quality Parameters	Chloride	Specific 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						
08 JUL 1999	5.8	1351	73.7	8.2		4620.9
22 JUL 1999	5.2	1327	72.2	8.1		4623.9
03 AUG 1999	4.9	1334	67.6	8.0		4619.6
19 AUG 1999	5.2	1320	69.0	8.1		4613.9
01 SEP 1999	5.1	1310	68.9	8.1		4611.2
15 SEP 1999	4.9	1336	68.3	7.8		4612.0
29 SEP 1999	4.9	1328	67.2	8.0		4616.0
13 OCT 1999	5.1	1335	70.6	8.0		4622.0
27 OCT 1999	4.8	1315	71.6	8.1		4621.0
09 NOV 1999	5.1	1305	69.6	8.0		4621.4
23 NOV 1999	5.0	1288	70.3	8.1		4628.3
08 DEC 1999	5.0	1297	68.5	8.1		4621.1
20 DEC 1999	5.1	1311	67.7	8.0		4621.5

* 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,19[illegible]

Water Quality Parameters	Chloride	Specific 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						
08 JUL 1999	6.9	1419	81.4	8.1		4621.0
22 JUL 1999	319.0 *	2832 *	762.7 *	6.8		4602.1
03 AUG 1999	79.0 *	3225 *	922.0 *	6.9		4592.6
18 AUG 1999	78.5 *	3299 *	948.0 *	6.7		4594.4
01 SEP 1999	79.6 *	3397 *	1040.0 *	6.7		4591.5
14 SEP 1999	56.4 *	2815 *	703.4 *	6.7		4596.1
22 SEP 1999	40.7 *	2338 *	537.0 *	6.8		4599.1
28 SEP 1999	32.4 *	2149 *	428.0 *	6.7		4601.0
12 OCT 1999	45.2 *	1990 *	546.0 *	7.1		4602.[illegible]
26 OCT 1999	24.4 *	1941 *	334.4 *	7.3		4605.2
09 NOV 1999	21.6 *	1840 *	286.6 *	7.2		4606.0
23 NOV 1999	17.9	1759 *	243.8 *	7.4		4607.3
07 DEC 1999	17.9	1726 *	232.1 *	7.4		4607.1
20 DEC 1999	20.0	1749 *	232.2 *	7.6		4605.8

* Values Exceed Upper Control Limit

6TW5

Negative U3O8 Grades Indicate Less Than Detection Limit.

CHRISTENSEN RANCH

INTERIOR DEEP SAND TREND WELLS

COGEMA Mining Inc.

CHRISTENSEN RANCH

Mine Unit 5 INTERIOR DEEP SAND MONITOR WELL

Well I.D. 5DM8T 2nd Half,1999

Water Quality Parameters	Chloride	Specific 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						
13 JUL 1999	9.1	598	138.3	8.4		4606.9
28 JUL 1999	8.8	600	137.2	8.1		4606.7
10 AUG 1999	8.3	597	128.7	8.4		4606.8
25 AUG 1999	8.4	595	128.8	8.3		4607.5
08 SEP 1999	9.0	592	130.1	8.5		4608.0
21 SEP 1999	8.8	602	134.6	8.4		4608.3
05 OCT 1999	8.3	599	131.6	8.4		4608.8
19 OCT 1999	8.9	590	133.2	8.5		4609.0
03 NOV 1999	8.8	598	133.0	8.5		4609.3
16 NOV 1999	8.7	601	133.5	8.4		4609.3
30 NOV 1999	8.5	593	127.9	8.5		4609.3
14 DEC 1999	8.4	585	127.9	8.5		4609.4
28 DEC 1999	8.7	594	132.4	8.4		4608.9

* 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,19

Water Quality Parameters	Chloride	Specific 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						
13 JUL 1999	10.8	521	121.9	8.7		4607.7
28 JUL 1999	10.4	523	128.7	8.5		4608.1
10 AUG 1999	9.8	519	119.8	8.6		4608.9
25 AUG 1999	9.8	518	115.3	8.5		4609.5
08 SEP 1999	9.8	516	118.5	8.6		4610.3
21 SEP 1999	9.8	521	112.2	8.5		4610.6
05 OCT 1999	9.8	512	114.6	8.5		4611.1
19 OCT 1999	10.9	511	118.7	8.6		4611.2
03 NOV 1999	10.2	521	131.8	8.6		4611.[illegible]
16 NOV 1999	10.5	514	117.7	8.6		4611.[illegible]
30 NOV 1999	10.1	512	113.0	8.6		4611.1
14 DEC 1999	10.5	505	115.3	8.6		4611.1
28 DEC 1999	10.2	505	115.3	8.6		4610.5

* Values Exceed Upper Control Limit 5DM9T

Negative U3O8 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,1999

Water Quality Parameters	Chloride	Specific 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						
08 JUL 1999	8.1	827	95.2	8.3		4602.2
22 JUL 1999	8.0	824	94.2	8.4		4598.4
04 AUG 1999	7.5	830	89.2	8.2		4593.0
19 AUG 1999	7.7	819	90.8	8.3		4592.3
01 SEP 1999	7.6	819	91.5	8.3		4592.0
15 SEP 1999	7.4	829	88.8	8.1		4591.7
29 SEP 1999	7.3	830	87.5	8.3		4592.9
13 OCT 1999	7.9	837	94.0	8.4		4594.6
27 OCT 1999	7.8	825	92.7	8.3		4595.1
08 NOV 1999	7.9	823	92.4	8.4		4595.6
22 NOV 1999	7.7	822	91.9	8.5		4596.2
08 DEC 1999	7.8	814	90.2	8.3		4597.6
20 DEC 1999	8.0	820	91.1	8.4		4596.1

* 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
December 2, 1999

COGEMA RESOURCES COMPANY
LYNCH, WYOMING

YELLOW CAKE DRYER STACK

December 2, 1999

File Number 99-1127

Prepared By

WESTERN
ENVIRONMENTAL
SERVICES AND
TESTING INC.
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APPENDICES:

A. Field Testing Data

B. Computer Data Entry

C. Analytical Data

D. Equipment Calibration

E. Chain of Custody

F. 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 radium$_{226}$, thorium$_{230}$, lead$_{210}$, and uranium were also determined by analyzing the particulate collected.

Mr. Bill Byrd and Mr. Sam Byrd of WEST conducted the particulate testing on December 2, 1999. Mr. Dexter Butterfield of COGEMA was also present.

Within this report the term "U_3O_8" 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 (UO_4 $2H_2O$) and 16% UO_3. The uranium trapped in the scrubber water, and which is emitted from the stack, is 99.5% UO_3, and 0.5% U_3O_7. 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 - During Test	155 lbs/hr
- Daily Rate	171 lbs/hr

II. SUMMARY OF RESULTS

The principal conclusions are:

1. The emissions of particulate matter from the Dryer Stack were 0.014 pounds per hour (0.0006 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 6.67×10^{-10} µCi/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 0.01073 pounds per hour, based on the "front and back-half" collections of the EPA type sampling train.
4. The two test average emissions of $Radium_{226}$ from the Dryer Stack were 1.53×10^{-13} µCi/ml, based on the "front and back-half" collections of the EPA-type sampling train.
5. The two test average emissions of $Thorium_{230}$ from the Dryer Stack were 9.01×10^{-14} µCi/ml, based on the "front and back-half" collections of the EPA-type sampling train.
6. The two test average emissions of lead (Pb_{210}) from the Dryer Stack were 2.73×10^{-12} µCi/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 4.7 percent of the allowable standard, based on the "front-half" collections of two tests.

III. TEST PARAMETERS

Table 2
Test Parameters and Particulate Results

	Run Number:	1	2	
	Start Date/Time	12/2/99 11:12	12/2/99 12:31	
	Stop Date/Time	12/2/99 12:15	12/2/99 13:33	
Test Parameters	**Units**			**Average**
P_{bar} (Barometric Pressure, absolute)	In. Hg	25.25	25.25	25.25
Y (Dry Gas Meter Calibration Factor)	unitless	1.002	1.002	1.002
C_p (Pitot tube Coefficient)	unitless	0.844	0.849	0.847
D_n (Diameter of Nozzle)	Inches	0.240	0.243	0.242
θ (Total Sampling Time of Test)	Minutes	60.00	60.00	60.00
ΔH (Orifice Pressure Drop)	In. H2O	1.56	1.68	1.62
V_m (Volume of Dry Gas Sampled - as measured)	ft^3 (dry)	44.240	44.509	44.375
T_m (Gas Meter Temperature, avg.)	Degr. F	47	49	48
V_{lc} (Condensate - impingers and silica gel)	ml or g	64.0	65.6	64.80
m_n (Mass of Particulate Collected)	mg	1.99	0.97	1.48
Location/Process Parameters				
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	134	135	134.83
$\sqrt{\Delta p}$ (Sq. root of velocity head of gas)	In. H2O	0.7514	0.7567	0.75
CO_2 (Carbon Dioxide)	%	0.8	0.8	0.80
O_2 (Oxygen)	%	19.6	19.6	19.60
N_2 (Nitrogen)	%	79.6	79.6	79.60
Calculations				
V_{mstd} (Gas Sampled, standard conditions (std))	ft^3	39.17	39.22	39.20
V_{wstd} (Water Vapor in Gas Sampled, std)	ft^3	3.01	3.09	3.05
B_{ws} (Water Vapor in Gas, Proportion by Vol.)	%	7.14	7.30	7.22
G_d (Proportion of Dry Gas in stack)	%	92.86	92.70	92.78
M_d (Molecular Weight of Dry Stack Gas)	lb/lb-mole	28.91	28.91	28.91
M_s (Molecular Weight of Wet Stack Gas)	lb/lb-mole	28.13	28.12	28.12
P_s (Pressure of Stack Gas, Absolute)	In. Hg	25.24	25.24	25.24
Iso (Percent of Isokinetic Sampling)	%	100.4	97.0	98.71
Flow Results				
V_s (Average Stack Gas Velocity)	ft/m (fpm)	2976	3018	2997
Q_{std} (Dry Volumetric Flow Rate, std.)	ft^3/m (dscfm)	2890	2920	2905
Q_a (Measured Volumetric Flow Rate, Actual)	ft^3/m (cfm)	4160	4210	4185
Particulate Results				
C_s (Particulate Concentrations - std.)	gr/dscf	0.0008	0.0004	0.0006
E_p (Particulate Emission Rate)	lb/hr	0.019	0.010	0.014

Table 3
Radiochemistry Results

Test Parameters		Date:	Run 1 2-Dec-99	Run 2 2-Dec-99	Average
V_{mstd}	(dscf - std conditions)		39.17	39.22	
	(dscm - std conditions)		1.11	1.11	
Q_s	(Stack Flow Rate, dscm/hr)		4910	4961	4935
	(Stack Flow Rate, dscf/min)		2890	2920	2905
Radium$_{226}$	Amount collected (pCi/sample)		0.00	0.34	
	Possible error (pCi)		0.04	0.08	
	Lower level detected - LLD (pCi)		0.16008	0.16008	
	LLD concentration (μCi/ml)		1.44E-13	1.44E-13	1.4423E-13
	Concentration, (μCi/ml)		0.00E+00	3.06E-13	1.53E-13
	Possible conc. error (μCi/ml)		3.61E-14	7.21E-14	5.41E-14
	Release Rate (Ci/Day)		0.00E+00	1.13E-06	5.66E-07
	Release Rate Error (Ci/Day)		1.32E-07	2.66E-07	1.99E-07
Thorium$_{230}$	Amount collected (pCi/sample)		0	0.2002	
	Possible error (pCi)		0.04	0.08008	
	Lower level detected - LLD (pCi)		0.16008	0.16008	
	LLD concentration (μCi/ml)		1.44E-13	1.44E-13	1.44E-13
	Concentration, (μCi/ml)		0.00E+00	1.80E-13	9.01E-14
	Possible conc. error (μCi/ml)		3.61E-14	7.21E-14	5.41E-14
	Release Rate (Ci/Day)		0.00E+00	6.65E-07	3.33E-07
	Release Rate Error (Ci/Day)		1.32E-07	2.66E-07	1.99E-07
Pb$_{210}$	Amount collected (pCi/sample)		3.46	2.60	
	Possible error (pCi)		0.40	0.36	
	Lower level detected - LLD (pCi)		2.24	2.24	
	LLD concentration (μCi/ml)		2.02E-12	2.02E-12	2.02E-12
	(concentration, μCi/ml)		3.12E-12	2.34E-12	2.73E-12
	(possible deviation/error, μCi/ml)		3.61E-13	3.24E-13	3.43E-13
	Release Rate (Ci/Day)		1.14E-05	8.65E-06	1.00E-05
	Release Rate Error (Ci/Day)		1.32E-06	1.20E-06	1.26E-06
Uranium Nat.	mass collected, (pCi/sample)		1071	1117	
	Lower level detected - LLD (μCi/ml)		14.01	14.01	
	LLD concentration (μCi/ml)		1.26E-11	1.26E-11	1.26E-11
	Concentration, (μCi/ml)		6.54E-10	6.81E-10	6.67E-10
	Release Rate (Ci/Day)		2.35E-03	2.48E-03	2.41E-03
U_3O_8	lb/Hr		0.01045	0.01100	0.01073

IV. TEST PROCEDURES

A summary of the methods used to test the stack is 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 4
Sampling Points

Sample Point Number	% of Diameter	Inches from Wall
Point 1	4.4	$^{11}/_{16}$
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.

Carbon Dioxide, Oxygen, and Dry Molecular Weight Determination (Method 3)

A portion of the gas from the sampling trains was collected in tedlar bags. Analysis of carbon dioxide (CO_2) and oxygen (O_2) was performed with an Orsat Gas Analyzer. Dry molecular weight was calculated from CO_2 and O_2 concentrations.

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 and a glass lined probe before being drawn through a filter connected to the probe. Pre and posttest 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.

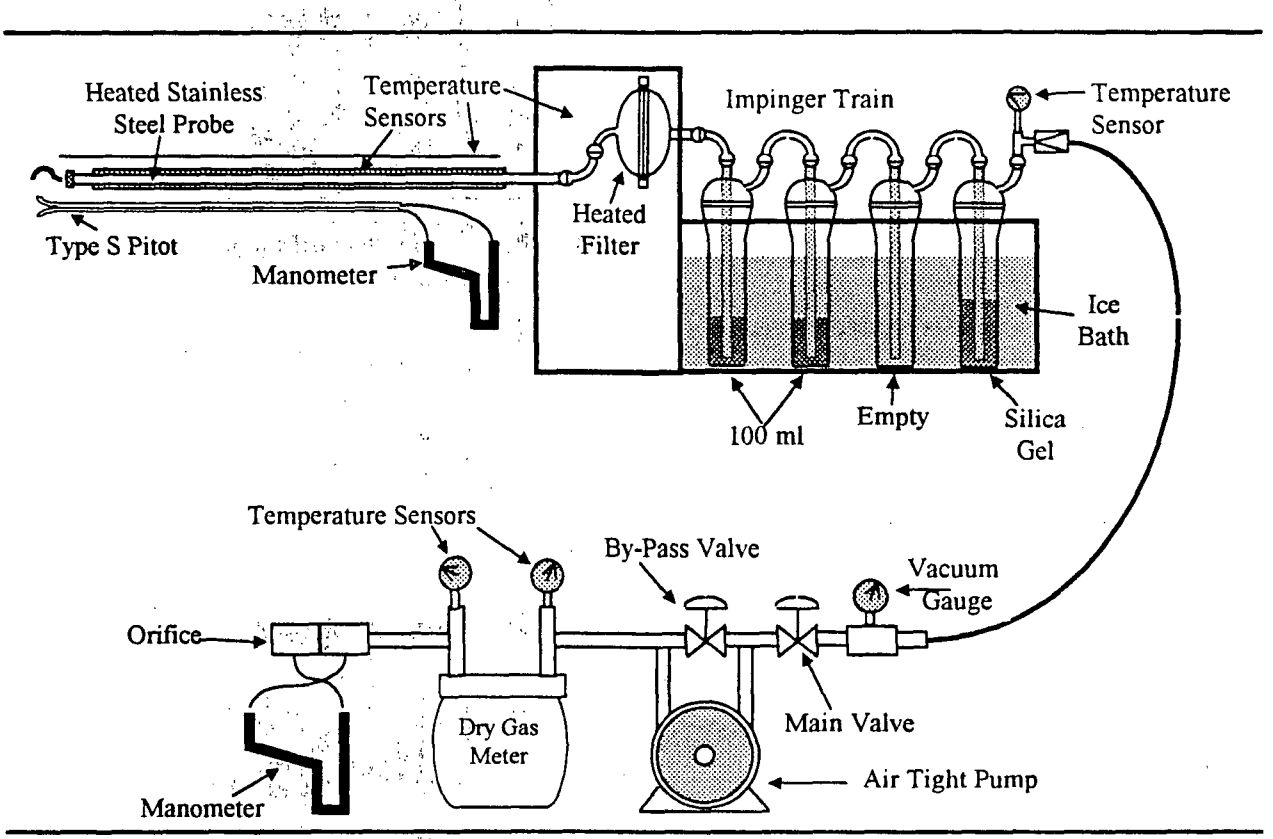


Figure 1
Method 5 Particulate Sample Train

V. SOURCE DESCRIPTION

In insitu uranium mining operations, 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 $UO_4 \circ 2H_2O$ and loaded into a 55-gallon drum for shipment.

The Wyoming Air Quality permit for the Yellow Cake Dryer is OP-254.

VI. 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):

$$V_{w(std)} = K(V_{lc})$$
$$= 0.04707(64)$$
$$= 3.01 \text{ wscf}$$

$V_{w(std)}$ = Volume (ft^3) of water collected, standard conditions

V_{lc} = Volume of liquid condensed in impingers, mg or ml

K = 0.04707 = Conversion factor (ft^3/ml)

2. Volume of gas metered, standard conditions (dscf)

$$V_{m(std)} = \frac{(K)(V_m)(P_{bar} + \frac{\Delta H}{13.6})(Y)}{(460 + T_m)}$$
$$= \frac{(17.647)(44.24)(25.25 + \frac{1.56}{13.6})(1.002)}{(460 + 47)}$$
$$= 39.17 dscf$$

$V_{m\,(std)}$ = Volume (ft^3) of gas through the dry gas meter, at standard conditions

V_m = Volume (ft^3) 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.H_2O)

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 H_2O/inch Hg)

460 = Conversion constant (°F to °R)

3. Moisture content, %

$$B_{ws} = \frac{V_{w(std)}}{V_{m(std)} + V_{w(std)}} x100\%$$
$$= \frac{3.01}{39.17 + 3.01} x100\%$$
$$= 7.14\ \%$$

B_{ws} = Percent by volume of water vapor in the gas stream

$V_{w(std)}$ = Volume (ft^3) of water collected, at standard conditions

$V_{m(std)}$ = Volume (ft^3) of gas through the dry gas meter, at standard conditions

4. Dry Gas, %

$G_d = 100 - B_{ws}$

$= 100 - (7.14)$

$= 92.86\ \%$

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)

$$M_d = M_{CO_2}\frac{(\%CO_2)}{(100)} + M_{O_2}\frac{(\%O_2)}{(100)} + (M_{CO\ or}\ M_{N_2})\frac{(\%CO + \%N2)}{(100)}$$

$$= 44.0\frac{(0.8)}{(100)} + 32.0\frac{(19.6)}{(100)} + 28.0\frac{(79.6)}{(100)}$$

$= 28.91$ lb/lbmole

M_d = Dry molecular weight of sample gas (lb/lb•mole)

M_{CO2} = Molecular weight of carbon dioxide (lb/lb•mole)

M_{O2} = Molecular weight of oxygen (lb/lb•mole)

$M_{CO\ orN2}$ = Molecular weight of CO or N_2 (lb/lb•mole)(Same)

CO_2 = Percent by volume of CO_2 in the gas stream

O_2 = Percent by volume of oxygen in the gas stream

$CO+N_2$ = Percent by volume of CO and N_2 in the gas stream

100 = Conversion from percent to decimal fraction

6. Molecular weight of sample gas (lb/lb•mole)

$M_s = (M_d)(G_d/100)+(M_{H2O})(B_{ws}/100)$

$= (28.91)(92.86/100)+(18)(7.14/100)$

$=28.13$ lb/lbmole

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_{H2O} = Molecular weight of water (lb/lb•mole)

7. Sample gas pressure (inches of Hg)

$$P_s = (P_{bar}) + \frac{(P_g)}{(13.6)}$$

$$= (25.25) + \frac{(-0.11)}{(13.6)}$$

$=25.24$ in. Hg

P_s = Absolute sample gas pressure (inches of Hg)

P_{bar} = Barometric pressure (inches of Hg)

P_g = Sample gas static pressure (inches of H_20)

13.6 = Conversion factor (inches H_2O/inches of Hg)

8. Velocity of sample gas (ft/min)

$$V_s = (K_p)(C_p)(60)(\sqrt{\Delta P})\left(\sqrt{\frac{(\overline{T}_s + 460)}{(M_s)(P_s)}}\right)$$

$$= (85.49)(0.844)(60)(0.7514)\sqrt{\frac{134 + 460}{(28.13)(25.24)}}$$

$$= 2{,}976 \text{ fpm}$$

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)
$\sqrt{\Delta P}$ = Avg. square roots of stack gas velocity head (in H_2O)
460 = Conversion constant (°F to °R)

9. Total flow of sample gas (acfm)

Qa = (As)(Vs)

= (1.40)(2,976)

=4,160 cfm

Q_a = Volumetric flow rate at actual conditions (acfm)
A_s = Cross sectional area of sampling location (ft^2)
V_s = Sample gas velocity (ft/min)

10. Total flow of sample gas (dscfm)

$$Q_{std} = \frac{(Q_a)(P_s)(17.647)\left(\frac{G_d}{100}\right)}{(T_s + 460)}$$

$$= \frac{(4{,}160)(25.24)(17.647)\left(\frac{92.86}{100}\right)}{(134 + 460)}$$

=2,890 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

$$\text{Isokinetics} = \frac{(K)(V_{mstd})(T_s + 460)}{P_s(\frac{V_s}{60})(\frac{\Pi D_n^2}{4(144)})\Theta(\frac{G_d}{100})}$$

$$= \frac{(0.0945)(39.17)(134 + 460)}{25.24(\frac{2.976}{60})(\frac{(3.14159)0.240^2}{4(144)})60(\frac{92.86}{100})}$$

$$= 100.4\%$$

T_s = Average sample gas temperature (°F)
K = 0.09450 = Conversion constant
$V_{m(std)}$ = Standard volume (ft^3) 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

$$C_s = \frac{(K)(m_n)}{V_{m(std)}} = \frac{(15.43)(0.00199)}{39.17} = 0.0008 gr/dscf$$

C_s = Concentration of particulate in stack gas, gr/dscf

m_n = mass of particulate collected, grams

$V_{m(std)}$ = Dry standard volume (ft^3) of gas through meter

K = 15.43 = conversion factor (grains/gram)

13. Particulate emissions (lbs/hr)

$$E_{lb/hr} = \frac{(C_s)(Q_{std})(60)}{7000} = \frac{(0.0008)(2890)(60)}{7000} = 0.019 \text{ lb/hr}$$

$E_{lb/hr}$ = 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. Radium$_{226}$ Lower Limit of Detection (LLD) concentration (µCi/ml)

$$C_{LLD} = \frac{(K_1)(LLD)}{V_{m(std)}(K_2)} = \frac{(1 \times 10^{-6})(0.16)}{1.11(1 \times 10^{6})} = 1.44 \times 10^{-13} \mu Ci/ml \quad (air)$$

Note: LLD, Actual and Possible error concentrations for Thorium$_{230}$, Lead $_{210}$ and Uranium Natural all calculated in a similar manner.

C_{LLD} = Radium$_{226}$ Lower Level of Detected concentration, µCi/ml of air

LLD = Radium$_{226}$ Lower Limit of Detection from lab, pCi/sample*

$V_{m(std)}$ = Dry standard volume (m^3) of gas through meter

K_1 = 1 x 10^{-6} m^3/ml = conversion factor

K_2 = 1 x 10^6 pCi/µCi = conversion factor

**Uranium Natural LLD = 3.34, based on 5 mg/sample x 0.667pCi/mg*

15. Release Rate of Lead$_{210}$ (Ci/month)

$$RR_{Ci/month} = \frac{(Amt.Collected)(Q_{std})(K_1)(K_2)(K_3)}{V_{m(std)}} = \frac{(3.46)(4910)(24)(31)(1x10^{-12})}{1.11} = 1.14 \times 10^{-5} \text{ Ci/month}$$

Note: Radium$_{226}$, Thorin$_{230}$ and U Nat. calculated similarly

RR = Release rate (Ci/month)

Amount collected = Radium$_{226}$ in the sample (pCi)

Q_{std} = Dry standard volumetric flow rate (dsm^3/hr)

K_1 = Conversion factor (24hr/day)

K_2 = Conversion factor (1 x 10^{-12} Ci/pCi)

K_3 = Conversion factor (31 days/month)

$V_{m(std)}$ = Dry standard volume (m^3) of gas through meter

16. U_3O_8 emissions (lbs/hr)

$$E_{lb/hr} = \frac{(amount_{U.nat.} collected)1.179(Q_{std})}{(K_1)(V_{mstd})(453.59x10^6)} = \frac{(1071)(1.179)(4910)}{(0.67)(1.11)(453.59x10^6)} = 0.01045 \text{ lb/hr}$$

$E_{lb/hr}$ = Emission rate (lb/hr)

Amount collected = uranium natural in the sample (pCi)

K_1 = 0.67 pCi/µg = $U_{nat.}$ radioactivity to mass conv. factor

1.179 = fraction of uranium nat. as U_3O_8 (molecular wt. of U_3O_8 / molecular wt. of $3U_{nat.}$, 842.0822/714.087)

Q_{std} = Dry standard volumetric flow rate (dsm^3/hr)

453.6x10^6 = Conversion factor (µgram/lb)

APPENDICES

A. Field Testing Data

B. Computer Data Entry

C. Analytical Data

D. Equipment Calibration

E. Chain-of-Custody

F. Resumes of Test Personnel

APPENDIX A

FIELD TESTING DATA

Western Environmental Services and Testing, Inc.

Facility Cogeman Job No: 99-1127

Run No. 1 Date: 12-2-99

Source/ I.D. No. Yellow Yellow

Stack: Area in² (A_s) 201.1 Dia (in) 16

Operators Byrd / Byrd

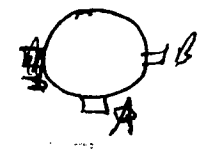
Meter Box # 19 Calib. Factor(Y) 1.002

Nozzle # N-3 Diameter (D_n) 0.240

Pitot I.D. A-4 Calib.Factor(C_p) 0.844

Particulate **Field Data**

Schematic of Stack Cross Section



N or Up Gas Flow Out / In

K Factor 2.5 2.7

Barometric Pressure (P_b) 25.25

Amb. °F 44 Assumed Moisture % 2

Static Stack Pressure "H₂O (+/-) -0.11

Probe Length / Material 3' Glass

	Before	Middle	After
Pitot Tube Leak Check	OK	—	OK

Initial Leak @ 15.0 "Hg = .000 ft³/min

Final Leak @ 15.0 "Hg = .000 ft³/min

Point	Clock Time	Dry Gas Meter (ft³)	ΔP (Pitot) "H₂O	ΔH (Orifice) "H₂O Desired	ΔH (Orifice) "H₂O Actual	Pump Vac. "Hg	Temperature °F Probe	T_s (stack)	T_m In	T_m Out	Filter	Exit	~~Flex Probe~~ N/A	K F	
B-6	11:12	267.216	.60	1.50	1.50	1.5	242	134	—	46	250	47	—	2.5	
5	11:17	270.75	.61	1.64	1.65	1.5	248	134	—	46	249	48	—	2.7	
4	11:22	274.54	.61	1.64	1.65	1.5	251	134	—	46	245	48	—		
3	11:27	278.33	.59	1.59	1.60	1.5	250	135	—	45	252	49	—	2.9	
2	11:32	282.09	.57	1.65	1.65	1.5	254	135	—	46	251	51	—	2.9	
1	11:37	285.84	.55	1.59	1.60	1.5	251	134	—	46	254	56	—		
End	11:42	289.563	—	—	—	—	—	—	—	—	—	—	—		
A-6	11:45	289.563	.56	1.62	1.60	1.5	254	134	—	46	239	58	—	2.9	
5	11:50	293.20	.53	1.54	1.55	1.5	253	134	—	47	247	57	—		
4	11:55	297.00	.57	1.54	1.55	1.5	254	135	—	47	246	56	—	2.7	
3	12:00	300.67	.55	1.49	1.50	1.5	255	135	—	47	245	56	—		
2	12:05	304.28	.53	1.43	1.45	1.5	252	135	—	48	244	56	—		
1	12:10	307.83	.51	1.38	1.40		255	134	—	48	248	55	—		
End	12:15	311.456	—	—	—	—	—	—	—	—	—	—	—		

Uncorrected V_m 44.24 ft³ %CO_2 0.8 %CO 0 Sample Purge: Initial _____ Final _____

Corrected V_m 44.328 ft³ %O_2 19.6 %N_2 79.6 Volume Collected V_{lc} 64.0 ml Sample Time, θ 60 min

A 0001

Western Environmental Services and Testing, Inc.

Facility Cogeman Job No: 99-1127

Run No. 2 Date: 12-2-99

Source/ I.D. No. Yellow Cake Dryer

Stack: Area in² (A_s) 201.1 Dia (in) 16

Operators Byrd / Byrd

Meter Box # 19 Calib. Factor(Y) 1.002

Nozzle # M3 Diameter (D_n) 0.243

Pilot I.D. A-17 Calib.Factor(C_p) 0.849

Schematic of Stack Cross Section

See Run #1

N or Up

Gas Flow Out / In

K Factor 2.7

Barometric Pressure (P_b) 25.25

Amb. °F ___ Assumed Moisture % 2

Static Stack Pressure "H₂O (+/-) -0.11

Probe Length / Material 3' Glass

	Before	Middle	After
Pilot Tube Leak Check	OK	—	OK

Initial Leak @ 15 "Hg = 0.001 ft³/min

Final Leak @ 10 "Hg = 0.002 ft³/min

Field Data

Point	Clock Time	Dry Gas Meter (ft³)	ΔP (Pitot) "H₂O	ΔH (Orifice) "H₂O Desired	ΔH (Orifice) "H₂O Actual	Pump Vac. "Hg	Temperature °F Probe	T_s (stack)	~~T_m In~~ NA	T_m Out	Filter	Exit	~~Flex Probe~~ NIA		
A-6	12:31	311.635	0.60	1.62	1.60	1.5	256	135	—	48	250	47	—		
5	12:36	315.324	0.60	1.62	1.60	1.5	251	135	—	49	255	47	—		
4	12:41	318.950	0.62	1.67	1.65	1.75	253	135	—	49	257	49	—		
3	12:46	322.731	0.55	1.65	1.65	1.75	252	135	—	49	261	51	—	K=3.0	
2	12:51	326.515	0.50	1.5	1.5	1.5	255	135	—	49	252	52	—		
1	12:56	330.140	0.50	1.5	1.5	1.5	256	135	—	49	250	53	—		
End	13:01	333.039	—	—	—	—	—	—	—	—	—	—	—		
B-6	13:03	333.039	0.63	1.89	1.9	2.0	250	135	—	49	280	52	—		
5	13:08	337.039	0.60	1.8	1.8	2.0	256	135	—	49	255	53	—		
4	13:13	340.900	0.60	1.8	1.8	2.0	253	135	—	49	248	54	—		
3	13:18	344.740	0.56	1.68	1.7	2.0	254	136	—	50	232	56	—		
2	13:23	~~348.800~~	0.56	1.68	1.7	2.0	255	136	—	50	256	57	—	348.600	
1	13:28	352.347	0.56	1.68	1.7	2.0	253	136	—	50	251	58	—		
End	13:33	356.144	—	—	—	—	—	—	—	—	—	—	—		

Uncorrected V_m 44.509 ft³ %CO_2 .8 %CO 0 Sample Purge: Initial ___ Final ___

Corrected V_m 44.588 ft³ %O_2 19.6 %N_2 79.6 Volume Collected V_{lc} 65.6 ml Sample Time, θ 60 min

A-003

APPENDIX B

COMPUTER DATA ENTRY

Cogema
Linch, Wyoming
Yellow Cake Dryer Stack

Run: 1

Western Environmental
Job Number 99-1127
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. H20
Barometric: 25.25 in. Hg
Silica Gel: 12.7grams
Condensate: 51.3grams
Total Wt. 64.0grams

Meter No: 19
Meter Correction Factor: 1.002
Sample Box No: Apex
Pitot Tube Cp: 0.844
Probe Tip Diameter 0.240
Filter No: 3Q-410
% CO_2 0.8
% O_2 19.6

Date/Start Time 12/2/99 11:12
Pretest Leak Rate 0.000 cfm @ 15 in.Hg

Date/Stop Time 12/2/99 12:15
Posttest Leak Rate 0.000 cfm @ 15 in.Hg

Point	Clock Time	Dry Gas Meter	Pitot (in. H2O)	Actual ΔH	Stack Temp.	Dry Gas Meter Temp Inlet	Dry Gas Meter Temp Outlet	Vol. per Point	√Δ p	% Iso
B 6	11:12	267.216	0.60	1.50	134	46	46	3.53	0.775	93.4
5	11:17	270.750	0.61	1.65	134	46	46	3.79	0.781	99.4
4	11:22	274.540	0.61	1.65	134	46	46	3.79	0.781	99.4
3	11:27	278.330	0.59	1.60	135	45	45	3.76	0.768	100.5
2	11:32	282.090	0.57	1.65	135	46	46	3.75	0.755	101.8
1	11:37	285.840	0.55	1.60	134	46	46	3.72	0.742	102.8
End	11:42	289.563								
A 6	11:45	289.563	0.56	1.60	134	46	46	3.74	0.748	102.2
5	11:50	293.300	0.53	1.55	134	47	47	3.70	0.728	103.8
4	11:55	297.000	0.57	1.55	135	47	47	3.67	0.755	99.4
3	12:00	300.670	0.55	1.50	135	47	47	3.61	0.742	99.5
2	12:05	304.280	0.53	1.45	135	48	48	3.55	0.728	99.5
1	12:10	307.830	0.51	1.40	134	48	48	3.63	0.714	103.5
End	12:15	311.456								
				1.5583	134	47		44.24	0.7514	

APPENDIX C

ANALYTICAL DATA

Lab Results

Volume of Sample

Run 1	2.001
Run 2	2.002

Parameters		Radium 226	Thorium 230	Lead 210	Uranium Nat.
Reported Activity conc. (pCi/liter)					
	Run 1	< 0.08	< 0.08	1.73	535.33*
	Run 2	0.17	0.10	1.3	558.11*
Reported Error conc. (pCi/liter)					
	Run 1			0.2	54.74*
	Run 2	0.04	0.04	0.18	57.02*
Calculated Amount collected (pCi/sample)					
	Run 1	0.00	0.00	3.46	1071.20
	Run 2	0.34	0.20	2.60	1117.34
Calculated Possible error (pCi)					
	Run 1	0.04	0.04	0.4002	109.53
	Run 2	0.08008	0.08008	0.36036	114.15
Lowest level detected LLD (pCi)				Calculated	Estimated
	Run 1	0.16	0.16	2.24	14.01
	Run 2	0.16	0.16	2.24	14.01

* 1 pCi = 0.67μg

Lab Number:99-5266-01C
February 23, 2000

WEST
913 Foster Road
Casper, WY 2601
Cogema - 99-1127
Attention: Dan Klausen

Run 1 - HNO_3 Rinse / Back Half
Sample collected December 2, 1999 @ 11:12

Analysis	Activity		Error
Radium 226	<0.08 pCi/L	±	
Lead 210	1.73 pCi/L	±	0.2 pCi/L
Total Uranium	799 µg/L	±	81.7 µg/L
Thorium 230	<0.08 pCi/L	±	

Submitted : 12/3/99
Completed: 2/23/00
Analyst: Out side Lab

Environmental Supervisor

Enviro • Test
LABORATORIES LLC.

C 0003

Limit of Liability: Although care and due diligence is taken in the performance of our services, our liability in all cases is limited to re-analysis at our expense or refunding the analytical costs charged for the work performed.

FILTER ANALYSIS

Job Number	**99-1127**	**Run Date**	12/2/99
Client Name	Cogema		
Unit	Yellowcake Dryer		

RUN 1	**FILTER #**	3Q-410	**AVERAGE**
Filter + Particulate	0.3243	0.3243	0.3243
Filter Tare	0.3232	0.3233	0.3233
Particulate Weight	0.0011	0.0010	0.0010

RUN 2	**FILTER #**	3Q-411	**AVERAGE**
Filter + Particulate	0.3306	0.3305	0.3306
Filter Tare	0.3300	0.3301	0.3301
Particulate Weight	0.0006	0.0004	0.0005

BLANK	**FILTER #**	3Q-412	**AVERAGE**
Filter + Particulate	0.3327	0.3326	0.3327
Filter Tare	0.3325	0.3322	0.3324
Particulate Weight	0.0002	0.0004	0.0003

Analyst	GLH	Started	12/6/99
		Completed	12/8/99

FINAL REPORT

APPENDIX D

EQUIPMENT CALIBRATION

WESTERN ENVIRONMENTAL SERVICES AND TESTING INC.
METER BOX CALIBRATION FORM

Meter Box Num:	19	Average DGM Y =	1.002	Tech:	TM
Pb =	24.65	Delta H @ =	1.783	Date:	10/7/99

	Orifice I.D.= 48		K1= 0.3497		Orifice I.D.= 55		K1= 0.4597	
	1		2		1		2	
DGM Final	331.215		333.476		336.497		339.493	
Initial	328.958		331.215		333.530		336.523	
Vm	2.257		2.261		2.967		2.970	
Temp In/Out	64	64	65	65	66	66	66	67
Avg. Tm °R/°F	524	64	525	65	526	66	527	67
Delta H	0.51		0.51		0.91		0.91	
Time:	5 0.03	5.001	5 0.21	5.004	4 59.87	4.998	5 0.21	5.004
Orifice Temp.	71		71		71		71	
Vacuum "Hg	18.0		18.5		17.5		17.5	
Vm (std)	1.877		1.877		2.461		2.461	
Vcr (std)	1.871		1.872		2.458		2.460	
DGMCF Y	0.997		0.997		0.999		1.000	
Delta H @	1.709		1.706		1.762		1.760	

	Orifice I.D.= 63		K1= 0.5964		Orifice I.D.= 73		K1= 0.8198	
	1		2		1		2	
DGM Final	343.534		347.363		352.657		357.903	
Initial	339.537		343.534		347.418		352.657	
Vm	3.997		3.829		5.239		5.246	
Temp In/Out	67	68	68	68	68	69	69	70
Avg. Tm °R/°F	528	68	528	68	529	69	530	70
Delta H	1.60		1.60		2.95		2.95	
Time:	5 13.43	5.224	4 59.88	4.998	4 59.98	5.000	4 59.96	4.999
Orifice Temp.	71		71		72		79	
Vacuum "Hg	16.0		16.0		14.0		15.0	
Vm (std)	3.312		3.170		4.351		4.348	
Vcr (std)	3.333		3.189		4.380		4.352	
DGMCF Y	1.006		1.006		1.007		1.001	
Delta H @	1.843		1.841		1.813		1.833	

WESTERN ENVIRONMENTAL SERVICES AND TESTING, INC.
NOZZLE CALIBRATION DATA

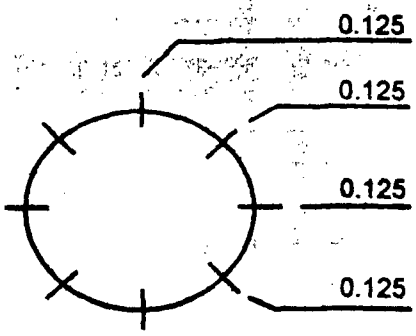
Date: 10/12/99

Technician: WP

Page: 1 of 3

Nozzle ID # :

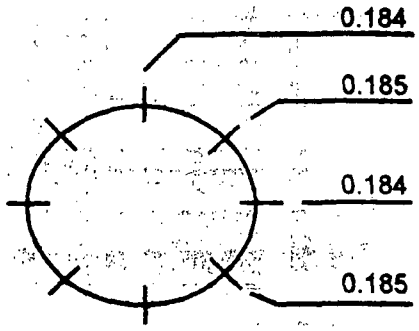
N-1



	(low)	(high)
Random:	0.125	0.125
Average:	0.125	

Nozzle ID # :

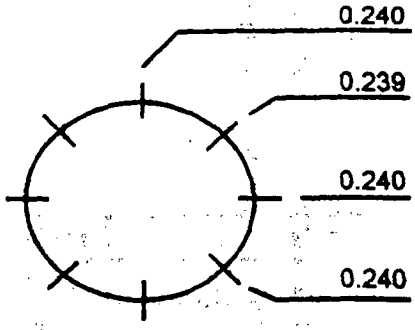
N-2



	(low)	(high)
Random:	0.184	0.185
Average:	0.185	

Nozzle ID # :

N-3



	(low)	(high)
Random:	0.239	0.240
Average:	0.240	

The difference between the high and low must be within 0.004 inches.

WESTERN ENVIRONMENTAL

PITOT TUBE CALIBRATION

Pitot Tube ID No. : A-4

High side calibration factor : 0.844

Performed by: SB

Low side calibration factor : 0.844

Calibration Date : 10/12/99

Comments:

A-Side Calibration (high side)			
ΔPstd' (in.) H_2O	ΔPs' (in.) H_2O	Cp (S)[a]	Dev.[b]
0.93	1.30	0.844	0.000
0.93	1.30	0.844	0.000
0.93	1.30	0.844	0.000
	Average (Cp')	0.844	

B-Side Calibration (low side)			
ΔPstd' (in.) H_2O	ΔPs' (in.) H_2O	Cp (S)[a]	Dev.[b]
0.93	1.30	0.844	0.000
0.93	1.30	0.844	0.000
0.93	1.30	0.844	0.000
	Average (Cp')	0.844	

$$Cp\ (S)^a = Cp(std)\sqrt{\frac{\Delta Pstd}{\Delta Ps}}$$

Temperature (°F) : 73

Humidity (%) : 25

Dev.[b] = Cp (S)[a] - Cp' (must be ≤ 0.01)

Date: 10/12/99

Cp' (A) - Cp' (B) = 0.000 (must be ≤ 0.01)

Cp (std)* : 0.998

Cp' (A) = 0.844

Cp' (B) = 0.844

Standard Pitot No. : 2

*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.

APPENDIX E

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
☐ 1959 S. 4130 W., Unit D, SLC, UT 84104 801-886-1667 FAX 801-886-1669

CHAIN OF CUSTODY RECORD

PROJECT NO.: 99-1127 COGEMA CONTACT NAME Jon Vaselin TELEPHONE NO.

Recovered By: Print Name | Signature

	SAMPLE ID	SAMPLE LOCATION	RUN	RECOVERY DATE	RECOVERY TIME	SOLUTION / FILTER #	No. of Containers	Particulate	Uranium	U_{208}	Ra_{226}	Th_{230}	Pb_{210}			REMARKS
59	99-1127-1	Yellow Cake Dryer	1	12-2-99	11:14 / 12:15	Acetone	1	X	X	X	X	X	X			Run 1 Acetone Frontrinse
	99-1127-2		1			0.1N HNO_3	1		X	X	X	X	X			Run 1 Front Half Rinse
	99-1127-3		1			0.1N HNO_3	1		X	X	X	X	X			Run 1 Imp Catch
	99-1127-4		1			3Q-410	1	X	X	X	X	X	X			Run 1 Filter
60	99-1127-5		2		12:31 / 13:33	Acetone	1	X	X	X	X	X	X			Run 2 Acetone Frontrinse
	99-1127-6		2			0.1N HNO_3	1		X	X	X	X	X			Run 2 Front Half Rinse
	99-1127-7		2			0.1N HNO_3	1		X	X	X	X	X			Run 2 Imp Catch
	99-1127-8		2			3Q-411	1	X	X	X	X	X	X			Run 2 Filter
58	99-1127-Blank		Blank		14:00	Acetone	1	X	X	X	X	X	X			Acetone Blank
	99-1127-Blank					0.1N HNO_3	1		X	X	X	X	X			0.1N HNO_3 Blank
	99-1127-Blank					3Q-412	1	X	X	X	X	X	X			Filter Blank

COMMENTS: All Samples were recovered after each Run and delivered to West's Casper lab

Relinquished by: (Signature)	Company	Date	Time	Received by: (Signature)	Company	Date	Time
William A Boyd	Western Env	12-3-99	10:13				
Relinquished by: (Signature)	Company	Date	Time	Received by: (Signature)	Company	Date	Time
Dispatched by: (Signature)	Company	Date	Time	Received for Laboratory by:	Company	Date	Time
				Ken Mill	WEST	12-3-99	10:13
Method of Shipment:							

WHITE COPY—WEST YELLOW COPY—CUSTOMER

M00953 11/94

APPENDIX F

RESUMES OF TEST PERSONNEL

PROFESSIONAL PROFILE

WILLIAM A. BYRD III

Environmental Specialist

Technical Expertise:

- Source Emission Testing
- Calibration and Maintenance of Sampling Equipment
- Monitoring Equipment Repair
- Hazardous Shipping

Technical Experience:

Mr. Byrd has provided source testing since early in 1999. His experience is with tests working with EPA methods 1-5. Mr. Byrd has experience in sample recovery and chain-of-custody procedures for particulate. He has training and experience in hazardous materials shipping.

Education:

Mr. Byrd has completed college courses in Environmental Law, Environmental Ethics, Hazardous Materials and Waste, and Environmental Ecology.

Certification:

MSHA
H_2S
BEC (First Responder for First Aid and CPR)
DOT Training (without certification)

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

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.

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D-02X