

**COGEMA**

Mining, Inc.

June 27, 2001

**LICENSE SUA-1341  
DOCKET NO. 40-8502**

Mr. Mel Leach, Chief  
Fuel Cycle Licensing Branch, FCSS  
c/o Document Control Desk  
U. S. Nuclear Regulatory Commission  
Washington, D.C. 20555

**RE: Quarterly Progress Report of Monitor Wells on Excursion Status**

Dear Mr. Leach:

The letter serves as a progress report, as required by License Sections 11.2 and 12.2, concerning the 9 monitor wells which remained on excursion status during the second quarter of 2001. This letter also serves as the follow-up written notification on the excursion of monitor well RS-27, which was initially reported by phone on June 7, 2001. These wells are all located at the Irgaray Project and are summarized below.

A table is attached listing the weekly sample analysis data and water level elevations for each well.

Interior Unit 1 Sand Monitor Wells

Note that all of these monitor wells are all located in restored mine units, therefore, no recent corrective actions have been taken.

SSM3 (Production Unit 2) has been on excursion status since August 28, 1996. No significant net changes were noted at the end of the quarter. On June 25, chloride was 56.9 (UCL 38.5), conductivity was 1836 (UCL 1451) and alkalinity was 152.3 (UCL 219.1).

SSM18 (Production Unit 8) has been on excursion status since September 11, 1996. No significant net changes were noted at the end of the quarter. On June 25, chloride was 18.1 (UCL 14.7), conductivity was 1808 (UCL 1849) and alkalinity was 157.2 (UCL 119.4).

SSM40 (Production Unit 8) has been on excursion status since March 6, 1994. Conductivity and alkalinity showed a net increase, while chloride showed no significant net change at the end of the quarter. On June 25, chloride was 14.3 (UCL 13.6), conductivity was 1633 (UCL 1672) and alkalinity was 117.7 (UCL 109.2).

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SSM41 (Production Unit 4) has been on excursion status since November 17, 1998. No significant net changes were noted at the end of the quarter. On June 25, chloride was 34.0 (UCL 24.9), conductivity was 2475 (UCL 2566) and alkalinity was 139.6 (UCL 126.8).

SSM42 (Production Unit 3) has been on excursion status since October 10, 1990. Alkalinity showed a small net increase, while chloride and conductivity showed no significant change at the end of the quarter. On June 25, chloride was 59.0 (UCL 23.3), conductivity was 2368 (UCL 1571) and alkalinity was 138.8 (UCL 213.2).

SSM43 (Production Unit 1) has been on excursion status since October 11, 1989. Chloride showed a small net decrease, while conductivity and alkalinity showed no significant net change at the end of the quarter. On June 25, chloride was 34.5 (UCL 25.6), conductivity was 1728 (UCL 1456) and alkalinity was 141.4 (UCL 170.4).

#### Interior Deep Sand Monitor Well

DM10 (Production Unit 6) has been on excursion status since February 2, 1994. Chloride showed a small net increase, while conductivity and alkalinity showed no significant net change at the end of the quarter. On June 25, chloride was 36.7 (UCL 16.4), conductivity was 943 (UCL 606) and alkalinity was 261.4 (UCL 107.5). Note that DM10 is located in Mine Unit 6, which is currently in restoration.

#### Perimeter Ore Zone Monitor Wells

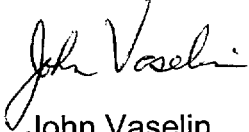
M2 (Production Unit 2) has been on excursion status since May 29, 2001. M2 has a history of numerous excursions. All 3 excursion parameters showed a net decrease at the end of the quarter. On June 25, chloride was 16.5 (UCL 18.0), conductivity was 784 (UCL 685) and alkalinity was 90.2 (UCL 131.1). Corrective pumping began on May 4 from ore zone trend well T10 (located approximately 260 feet north of M2). As in the past, this has proven to be effective in reversing the excursion. Note that only one UCL was exceeded in the last weekly sample. If no more than one UCL is exceeded for three consecutive weekly samples, the excursion status can be removed. M2 is located on the west perimeter of Production Unit 2, which has completed restoration.

RS27 (Production Unit 5) has been on excursion status since June 6, 2001. No significant net changes were noted at the end of the quarter, however, alkalinity dropped below its UCL on June 11 and 19. On June 25, chloride was 12.1 (UCL 16.9), conductivity was 727 (UCL 646) and alkalinity was 101.5 (UCL 101.2). RS27 is located on the west perimeter of Production Unit 5, which has completed restoration. No corrective action is planned at this time.

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Please contact me if you have any questions regarding this report.

Sincerely,

A handwritten signature in cursive script, appearing to read "John Vaseh".

John Vaseh  
Radiation Safety Officer

cc: Region IV Branch Chief/NRC, Arlington, TX  
Donna Wichersi/COGEMA

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**COGEMA Mining, Inc. Irigaray and Christensen Projects**

<b>Monitor Well ID: SSM3      Location: Irigaray Project, PU # 2</b>						
Sample Date	Chloride (UCL 38.5 mg/l)	Conductivity (UCL 1451 umhos)	Alkalinity (UCL 219.1 mg/l)	pH	Water Level Elevation	Uranium as U <sub>3</sub> O <sub>8</sub>
04/03/01	59.1	1822	151.4	7.8	4304.5	< 0.4
04/10/01	59.2	1797	150.5	7.8	4304.7	< 0.4
04/16/01	58.8	1790	152.1	7.8	4304.6	< 0.4
04/23/01	58	1818	155.2	7.8	4304.8	< 0.4
04/30/01	57.6	1828	155.3	7.8	4304.9	< 0.4
05/14/01	57.2	1830	160.5	7.8	4305	< 0.4
05/08/01	57.7	1835	157.6	7.7	4304.9	< 0.4
05/23/01	56.5	1838	152.3	7.9	4305.3	< 0.4
05/29/01	58	1839	153	7.8	4305	< 0.4
06/05/01	57.7	1837	152.5	7.7	4305.2	< 0.4
06/11/01	56	1833	151.2	7.8	4305	< 0.4
06/19/01	56.9	1844	155.9	7.9	4304.6	< 0.4
06/25/01	56.9	1836	152.3	7.8	4305	< 0.4

<b>Monitor Well ID: SSM18      Location: Irigaray Project, PU # 8</b>						
Sample Date	Chloride (UCL 14.7 mg/l)	Conductivity (UCL 1849 umhos)	Alkalinity (UCL 119.4 mg/l)	pH	Water Level Elevation	Uranium as U <sub>3</sub> O <sub>8</sub>
04/03/01	18.2	1776	151.6	7.8	4308.7	< 0.4
04/10/01	18.5	1761	153.7	7.8	4308.8	< 0.4
04/16/01	18.7	1754	158.5	7.8	4308.7	< 0.4
04/23/01	19	1812	162.7	7.7	4308.9	< 0.4
04/30/01	18.5	1807	160.8	7.7	4308.4	< 0.4
05/14/01	18.3	1822	159.6	7.8	4309	< 0.4
05/08/01	17.9	1802	155.8	7.7	4309	< 0.4
05/23/01	18.1	1803	159.4	7.8	4309	< 0.4
05/29/01	18.2	1804	160.3	7.8	4309.1	< 0.4
06/05/01	18.5	1803	160.6	7.7	4309.1	< 0.4
06/11/01	18.5	1814	162.7	7.8	4309.1	< 0.4
06/19/01	17.9	1831	157.7	7.9	4309	< 0.4
06/25/01	18.1	1808	157.2	7.8	4309	< 0.4

<b>Monitor Well ID: SSM40      Location: Irigaray Project, PU # 8</b>						
Sample Date	Chloride (UCL 13.6 mg/l)	Conductivity (UCL 1672 umhos)	Alkalinity (UCL 109.2 mg/l)	pH	Water Level Elevation	Uranium as U <sub>3</sub> O <sub>8</sub>
04/03/01	13.6	1555	109.9	8	4310.4	< 0.4
04/10/01	14.6	1575	114.6	8	4310.5	< 0.4
04/16/01	14.5	1572	115.8	8.1	4310.4	< 0.4
04/23/01	14	1569	116.6	8	4310	< 0.4
04/30/01	14.4	1631	117.8	8	4310.6	< 0.4
05/14/01	14.8	1622	117.5	7.9	4311.5	< 0.4
05/08/01	13.1	1542	111.7	7.9	4310.7	< 0.4
05/23/01	13.7	1459	105.9	8.1	4310.7	< 0.4
05/29/01	13.6	1592	116.4	8.1	4310.8	< 0.4
06/05/01	13.7	1575	115.7	7.9	4310.6	< 0.4
06/11/01	13.6	1587	116.3	8	4310.8	< 0.4
06/19/01	12.8	1547	112.3	8.2	4310.8	< 0.4
06/25/01	14.3	1633	117.7	8	4310.8	< 0.4

<b>Monitor Well ID: SSM41      Location: Irigaray Project, PU # 4</b>						
Sample Date	Chloride (UCL 24.9 mg/l)	Conductivity (UCL 2566 umhos)	Alkalinity (UCL 126.8 mg/l)	pH	Water Level Elevation	Uranium as U <sub>3</sub> O <sub>8</sub>
04/03/01	34.7	2451	134.6	7.7	4304.7	< 0.4
04/10/01	34.7	2409	133.8	7.7	4304.8	< 0.4
04/16/01	34.1	2394	136.6	7.8	4304.8	< 0.4
04/23/01	34.8	2457	142.4	7.8	4305.1	< 0.4
04/30/01	34	2462	136.9	7.7	4305	< 0.4
05/14/01	34.3	2457	142.4	7.7	4305.3	< 0.4
05/08/01	33.9	2471	138.1	7.7	4305.1	< 0.4
05/23/01	34	2469	141.3	7.9	4305.4	< 0.4
05/29/01	33.8	2467	141.9	7.9	4305.2	< 0.4
06/05/01	34.4	2459	143.3	7.7	4305.2	< 0.4
06/11/01	33.8	2422	140.8	7.8	4305.1	< 0.4
06/19/01	33.7	2487	141.1	8	4305	< 0.4
06/25/01	34	2475	139.6	7.8	4305	< 0.4

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**COGEMA Mining, Inc. Irigaray and Christensen Projects**

<b>Monitor Well ID: SSM42      Location: Irigaray Project, PU # 3</b>						
Sample Date	Chloride (UCL 23.3 mg/l)	Conductivity (UCL 1571 umhos)	Alkalinity (UCL 213.2 mg/l)	pH	Water Level Elevation	Uranium as U <sub>3</sub> O <sub>8</sub>
04/03/01	56.9	2327	129	7.7	4300.2	< 0.4
04/10/01	57	2274	130.1	7.7	4300.4	< 0.4
04/16/01	56.8	2287	133.4	7.8	4300.2	< 0.4
04/23/01	56.3	2317	132.5	7.8	4300.1	< 0.4
04/30/01	56.3	2340	134.4	7.7	4300.4	< 0.4
05/14/01	57.3	2351	135.4	7.8	4300.5	< 0.4
05/08/01	57	2341	135.9	7.7	4300.6	< 0.4
05/23/01	56	2330	133.6	7.8	4300.8	< 0.4
05/29/01	59.9	2367	135.1	7.7	4300.9	< 0.4
06/05/01	57.8	2332	137.3	7.7	4300.7	< 0.4
06/11/01	58.7	2356	142	7.8	4300.9	< 0.4
06/19/01	57.1	2363	136.6	7.8	4300.6	< 0.4
06/25/01	59	2368	138.8	7.7	4300.8	< 0.4

<b>Monitor Well ID: SSM43      Location: Irigaray Project, PU # 1</b>						
Sample Date	Chloride (UCL 25.6 mg/l)	Conductivity (UCL 1456 umhos)	Alkalinity (UCL 170.4 mg/l)	pH	Water Level Elevation	Uranium as U <sub>3</sub> O <sub>8</sub>
04/03/01	36.3	1716	143.4	8	4303.3	< 0.4
04/10/01	35.3	1687	138.9	8	4303.5	< 0.4
04/16/01	34.9	1684	144.8	8	4303.5	< 0.4
04/23/01	35.2	1703	145.2	7.9	4303.6	< 0.4
04/30/01	34.4	1724	142.4	7.9	4303.7	< 0.4
05/14/01	34	1719	147.9	8	4304	< 0.4
05/08/01	34.1	1718	141.4	8	4303.8	< 0.4
05/23/01	34.8	1711	150.7	8.1	4304	< 0.4
05/29/01	35.5	1726	140.2	8	4304	< 0.4
06/05/01	34.1	1712	140.7	7.9	4303.8	< 0.4
06/11/01	34.5	1729	143.4	8	4303.9	< 0.4
06/19/01	33.8	1730	141.2	8.1	4303.9	< 0.4
06/25/01	34.5	1728	141.4	7.9	4303.8	< 0.4

<b>Monitor Well ID: DM10      Location: Irigaray Project, PU # 6</b>						
Sample Date	Chloride (UCL 16.4 mg/l)	Conductivity (UCL 606 umhos)	Alkalinity (UCL 107.5 mg/l)	pH	Water Level Elevation	Uranium as U <sub>3</sub> O <sub>8</sub>
04/03/01	34.2	954	264.5	8.3	4258	< 0.4
04/10/01	35.7	944	270.1	8.2	4257.5	< 0.4
04/16/01	34.9	947	273	8.2	4254.8	< 0.4
04/23/01	36.2	976	281.8	8.2	4252.8	< 0.4
04/30/01	35.8	978	280.6	8.2	4261.6	< 0.4
05/14/01	35	980	279.8	8.2	4259.1	< 0.4
05/08/01	35	982	281.9	8.2	4264.3	< 0.4
05/23/01	35.6	970	284.9	8.3	4255.8	< 0.4
05/29/01	35	971	293.9	8.2	4257.6	< 0.4
06/05/01	34.6	963	268.6	8.2	4258.4	< 0.4
06/11/01	35	951	265.3	8.2	4258.8	< 0.4
06/19/01	35.4	960	264.2	8.3	4262.4	< 0.4
06/25/01	36.7	943	261.4	8.2	4260.9	< 0.4

<b>Monitor Well ID: M2      Location: Irigaray Project, PU # 2</b>						
Sample Date	Chloride (UCL 18.0 mg/l)	Conductivity (UCL 685 umhos)	Alkalinity (UCL 131.1 mg/l)	pH	Water Level Elevation	Uranium as U <sub>3</sub> O <sub>8</sub>
05/29/01	18.5	822	95.9	8.5	4269.7	< 0.4
05/30/01	18.6	857	94.8	8.6	4269.7	< 0.4
06/05/01	20.1	836	97.9	8.7	4270.2	< 0.4
06/11/01	17	805	95.6	8.6	4258.2	< 0.4
06/19/01	16.2	802	90.9	8.6	4255.5	< 0.4
06/25/01	15	795	91.4	8.5	4253.9	< 0.4

<b>Monitor Well ID: RS27      Location: Irigaray Project, PU # 5</b>						
Sample Date	Chloride (UCL 16.9 mg/l)	Conductivity (UCL 646 umhos)	Alkalinity (UCL 101.2 mg/l)	pH	Water Level Elevation	Uranium as U <sub>3</sub> O <sub>8</sub>
06/06/01	13.5	724	102.5	8.5	4266	< 0.4
06/07/01	12.1	714	101.9	8.6	4266	< 0.4
06/11/01	12.2	725	96.3	8.7	4262.8	< 0.4
06/19/01	11.7	736	98.7	8.6	4259.5	< 0.4
06/25/01	12.1	727	101.5	8.5	4258.1	< 0.4