

**COGEMA**

Mining, Inc.

January 3, 2002

**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 8 monitor wells which remained on excursion status during the third quarter of 2001. Seven of these wells are located at the Irigaray Project (IR) where groundwater restoration has been completed, and one is at the Christensen Ranch Project (CR). Each well report is given below and a table is attached listing the weekly sample analysis data and water level elevations.

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 (IR Production Unit 2) has been on excursion status since August 28, 1996. A small net increase occurred in chloride, while no significant net change occurred in alkalinity and conductivity. On December 26, chloride was 62.9 (UCL 38.5), conductivity was 1855 (UCL 1451) and alkalinity was 150.7 (UCL 219.1).

SSM18 (IR Production Unit 8) has been on excursion status since September 11, 1996. Small net decreases occurred in all excursion parameters. On December 26, chloride was 18.8 (UCL 14.7), conductivity was 1818 (UCL 1849) and alkalinity was 159.4 (UCL 119.4).

SSM40 (IR Production Unit 8) has been on excursion status since March 6, 1994. A net increase occurred in all excursion parameters. On December 27, chloride was 15.3 (UCL 13.6), conductivity was 1634 (UCL 1672) and alkalinity was 116.6 (UCL 109.2).

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SSM41 (IR Production Unit 4) has been on excursion status since November 17, 1998. A net decrease occurred in conductivity, while no significant net change occurred in alkalinity and chloride. On December 26, chloride was 36.3 (UCL 24.9), conductivity was 2446 (UCL 2566) and alkalinity was 140.9 (UCL 126.8).

SSM42 (IR Production Unit 3) has been on excursion status since October 10, 1990. A net increase occurred in chloride and alkalinity, while no significant net changes occurred in conductivity. On December 26, chloride was 67.8 (UCL 23.3), conductivity was 2363 (UCL 1571) and alkalinity was 146.2 (UCL 213.2).

SSM43 (IR Production Unit 1) has been on excursion status since October 11, 1989. A net decrease occurred in all excursion parameters. On December 26, chloride was 36.0 (UCL 25.6), conductivity was 1702 (UCL 1456) and alkalinity was 141.2 (UCL 170.4).

Interior Deep Sand Monitor Wells

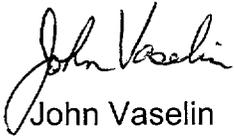
DM10 (IR Production Unit 6) has been on excursion status since February 2, 1994. A net decrease occurred in all excursion parameters. On December 26, chloride was 34.5 (UCL 16.4), conductivity was 863 (UCL 606) and alkalinity was 231.5 (UCL 107.5).

Perimeter Ore Zone Monitor Wells

5MW66 (CR Mine Unit 5) has been on excursion status since August 21, 2001. Significant net decreases occurred in all excursion parameters due to corrective pumping. On December 26, chloride was 14.3 (UCL 22.7), conductivity was 1013 (UCL 1004) and alkalinity was 152.1 (UCL 134.3). Note that Mine Unit 5 has completed the groundwater sweep phase of restoration and will remain idle until the RO filtration phase can begin.

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

Sincerely,



John Vaselin  
Radiation Safety Officer

cc: Donna Wichersi/COGEMA

**Monitor Wells on Excursion Status      Page 1 of 2**  
**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>
10/01/01	59.1	1854	150.5	7.9	4303.5	< 0.4
10/07/01	59.6	1824	154.2	7.8	4302.3	< 0.4
10/15/01	60	1828	151	8	4303.6	< 0.4
10/22/01	60.2	1847	154.3	7.9	4304	< 0.4
10/29/01	61.5	1861	160.2	7.9	4304.2	< 0.4
11/05/01	59.3	1873	152	7.9	4304.5	< 0.4
11/12/01	60.9	1868	154	7.8	4304.8	< 0.4
11/19/01	61.8	1853	154.3	7.8	4305.2	< 0.4
11/26/01	62.4	1828	150.6	7.8	4305.3	< 0.4
12/03/01	62.7	1859	152	7.8	4305.9	< 0.4
12/10/01	65	1863	157.1	7.9	4306	< 0.4
12/17/01	63.3	1873	150.6	7.8	4306.3	< 0.4
12/26/01	62.9	1855	150.7	7.8	4306.5	< 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>
10/01/01	19.8	1863	163.8	7.8	4308	< 0.4
10/07/01	20.4	1845	168.9	7.7	4306.5	< 0.4
10/15/01	19.4	1821	159.1	8	4307.8	< 0.4
10/22/01	19.5	1843	161.8	7.9	4308.2	< 0.4
10/29/01	19.5	1840	162.8	7.8	4308.2	< 0.4
11/05/01	19.7	1877	165.9	7.8	4308.8	< 0.4
11/12/01	19.2	1859	162.1	7.7	4309	< 0.4
11/19/01	19.1	1839	158.4	7.8	4309.2	< 0.4
11/26/01	20.5	1835	164.4	7.8	4309.1	< 0.4
12/03/01	18.9	1826	152	7.8	4309.7	< 0.4
12/10/01	19.1	1842	151.2	7.9	4309.8	< 0.4
12/17/01	20	1834	160	7.7	4310	< 0.4
12/26/01	18.8	1818	159.4	7.6	4310.3	< 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>
10/01/01	13.1	1509	108	8.1	4309.5	< 0.4
10/07/01	12.3	1440	104.1	7.9	4310	< 0.4
10/15/01	14.1	1553	112.3	8.3	4309.8	< 0.4
10/22/01	13.6	1532	111.6	8.2	4309.8	< 0.4
10/29/01	13.9	1554	112.1	8.1	4310.1	< 0.4
11/05/01	14.6	1660	116.2	8.2	4310.4	< 0.4
11/12/01	12.9	1518	108.8	8.2	4310.6	< 0.4
11/19/01	14.2	1581	113.3	8.3	4310.6	< 0.4
11/26/01	14.5	1566	111.8	8.2	4311	< 0.4
12/03/01	14.7	1601	112.4	8.4	4311.4	< 0.4
12/10/01	14.5	1598	108	8.3	4311.5	< 0.4
12/17/01	14.4	1593	111.9	8	4311.7	< 0.4
12/27/01	15.3	1634	116.6	8	4311.9	< 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>
10/01/01	36.3	2485	139.9	7.9	4303.9	< 0.4
10/07/01	39.4	2511	138.9	8	4302.7	< 0.4
10/15/01	36.6	2447	121.1	8.1	4303.7	< 0.4
10/22/01	37.2	2456	144.7	7.9	4304.1	< 0.4
10/29/01	36.2	2486	136.4	8.1	4304.7	< 0.4
11/05/01	35.5	2497	137.4	8	4308	< 0.4
11/12/01	36.6	2492	142.4	7.9	4305.1	< 0.4
11/19/01	36.9	2464	141	8.1	4305.4	< 0.4
11/26/01	36.6	2410	135.7	8	4305.5	< 0.4
12/03/01	36.4	2458	134.3	8.1	4328.5	< 0.4
12/10/01	36.9	2464	134.1	7.9	4306.3	< 0.4
12/17/01	36.9	2485	136.6	7.8	4306.5	< 0.4
12/26/01	36.3	2446	140.9	7.6	4306.7	< 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>
10/01/01	58.6	2366	132.3	7.9	4299.7	< 0.4
10/07/01	59.4	2330	133	7.7	4300	< 0.4
10/15/01	57.8	2311	130.2	8	4299.6	< 0.4
10/22/01	59.2	2341	138	7.8	4299.7	< 0.4
10/29/01	58.2	2369	135	7.9	4299.9	< 0.4
11/05/01	61.3	2377	141.2	7.9	4300	< 0.4
11/12/01	61.3	2390	138.3	7.7	4300.1	< 0.4
11/19/01	62.6	2367	138.8	7.8	4300.1	< 0.4
11/26/01	63.6	2333	136.2	7.8	4300.5	< 0.4
12/03/01	64.3	2312	137.7	7.9	4300.7	< 0.4
12/10/01	67	2402	141.4	7.9	4300.9	< 0.4
12/17/01	68.2	2413	141.3	7.9	4301.1	< 0.4
12/26/01	67.8	2363	146.2	7.7	4301.2	< 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>
10/01/01	37.3	1750	145	8	4302.5	< 0.4
10/07/01	37.9	1724	148.6	7.9	4302	< 0.4
10/15/01	37.3	1705	141.8	8.2	4302.6	< 0.4
10/22/01	36.9	1740	142.7	8.2	4302.9	< 0.4
10/29/01	36.2	1748	140.3	8.2	4303.2	< 0.4
11/05/01	36.4	1764	141.1	8.2	4303.4	< 0.4
11/12/01	36.8	1750	143.8	7.9	4303.8	< 0.4
11/19/01	37.3	1726	142.7	8.2	4303.8	< 0.4
11/26/01	37.4	1709	139.2	8	4304.3	< 0.4
12/03/01	38.9	1727	147.1	8.2	4304	< 0.4
12/10/01	37.4	1731	136.3	8	4304.9	< 0.4
12/17/01	37.9	1737	140.8	8	4305.1	< 0.4
12/26/01	36	1702	141.2	7.7	4305.1	< 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>
10/01/01	37	914	248.9	8.2	4251.9	< 0.4
10/07/01	36.3	866	235.5	8.1	4250.6	< 0.4
10/15/01	37	889	242.9	8.4	4258.9	< 0.4
10/22/01	37.3	904	248.1	8.2	4265.9	< 0.4
10/29/01	38.2	926	257.4	8.3	4269.8	< 0.4
11/05/01	36.5	935	252.1	8.3	4277	< 0.4
11/12/01	35.6	942	260.5	8.1	4280.4	< 0.4
11/19/01	36.7	943	264.3	8.4	4288.8	< 0.4
11/26/01	37.2	923	229.4	8.2	4290.5	< 0.4
12/03/01	36.6	922	242.2	8.4	4292.1	< 0.4
12/10/01	36.2	904	239.4	8	4293.8	< 0.4
12/17/01	35.3	888	241.4	8.1	4295	< 0.4
12/26/01	34.5	863	231.5	8.2	4296.8	< 0.4

<b>Monitor Well ID: 5MW66      Location: Christensen Ranch Project, MU # 5</b>						
Sample Date	Chloride (UCL 22.7 mg/l)	Conductivity (UCL 1004 umhos)	Alkalinity (UCL 134.3 mg/l)	pH	Water Level Elevation	U3O8
10/01/01	30.3	1225	275.4	7.5	4551.9	< 0.4
10/07/01	27.3	1225	270.7	7.5	4551.5	< 0.4
10/15/01	29.8	1226	287.5	7.5	4551.8	< 0.4
10/22/01	33.2	1247	292	7.4	4552.3	< 0.4
10/29/01	32.1	1253	305.8	7.6	4556.1	< 0.4
11/05/01	25.9	1246	277.7	7.7	4556.8	< 0.4
11/12/01	23.4	1177	239.4	7.7	4557	< 0.4
11/19/01	20.6	1132	214.2	8	4557	< 0.4
11/26/01	18.9	1085	188.2	7.6	4557	< 0.4
12/03/01	18.5	1067	180.2	7.8	4557.3	< 0.4
12/10/01	18.2	1043	176.6	7.9	4557.3	< 0.4
12/17/01	15.3	1006	160.1	7.8	4556.2	< 0.4
12/26/01	14.3	1013	152.1	8	4556.2	< 0.4