



**COGEMA**

July 1, 2003

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

Ms. Susan Frant, Chief  
Fuel Cycle Licensing Branch, FCSS  
U. S. Nuclear Regulatory Commission  
Mail Stop T-8A33  
Two White Flint North  
11545 Rockville Pike  
Rockville, MD 20852

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

Dear Ms. Frant:

This letter serves as the progress report required by License Sections 11.2 and 12.2, concerning nine (9) monitor wells which remain on excursion status through the second quarter of 2003. Excursion status is defined as a monitor well which exceeds more than one upper control limit (UCL). Excursion status can be removed when a monitor well no longer exceeds more than one UCL for three consecutive weeks.

Seven of these wells are located at the Irigaray Project (IR) where groundwater restoration has been completed. The other two wells are located at the Christensen Project which is undergoing groundwater restoration. The attached table provides the current data on each of these wells.

As you are aware, all wells at the Irigaray site have remained on excursion for an extensive period of time (1989/1998 to present). Only normal periodical fluctuations of the excursion parameters have been observed in these wells over the years.

CR perimeter ore zone monitor well No. 5MW8 has been on excursion status since December 16, 2002. Corrective recovery in the well field area near this well continued during the month. Noticeable improvements have occurred recently, and we appear to be regaining control of the excursion. If the trend continues we may be able to remove this well from excursion status very shortly.

CR perimeter ore zone monitor well No. 5MW54 (Module 5/5 of Mine Unit 5) has been on excursion status since May 21, 2003, after a confirmation sample taken on that date exceeded all three UCL's. Corrective pumping action continued at adjacent recovery wells, as is our standard procedure to remedy the excursion situation as quickly as possible. You will notice in the attached table, that this well's control levels are still erratic and will need continued work to bring back under the set limits.

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

Sincerely,

Tom Nicholson  
Environmental Specialist/R.S.O.

cc: Donna Wichers/COGEMA

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**Monitor Wells on Excursion Status      Page 1 of 3**  
**COGEMA Mining, Inc. Irigaray and Christensen Projects**

<b>Monitor Well ID: SSM3      Location: Irigaray Project, PU # 2</b>						
<b>Sample Date</b>	<b>Chloride (UCL 38.5 mg/l)</b>	<b>Conductivity (UCL 1451 umhos)</b>	<b>Alkalinity (UCL 219.1 mg/l)</b>	<b>pH</b>	<b>Water Level Elevation</b>	<b>Uranium as U<sub>3</sub>O<sub>8</sub></b>
04/01/03	68.7	1945	158.5	7.9	4311	< 0.4
04/09/03	67.5	1925	151.8	7.9	4312	< 0.4
04/14/03	67	1931	148.8	7.7	4312	< 0.4
04/21/03	67.8	1918	150.5	7.7	4312	< 0.4
04/28/03	68	1915	155.6	7.9	4312	< 0.4
05/07/03	67	1956	153	7.9	4312	< 0.4
05/12/03	67.3	1986	151.4	7.8	4312.2	< 0.4
05/19/03	67.6	1976	155.9	7.9	4312.1	< 0.4
05/27/03	67.4	1970	148	7.8	4312	< 0.4
06/02/03	66.2	1985	138	7.9	4312	< 0.4
06/10/03	65.7	1962	134.3	7.9	4311.2	< 0.4
06/16/03	67	1969	133.1	7.8	4312	< 0.4
06/26/03	67.4	1942	134.4	7.8	4312.2	< 0.4

<b>Monitor Well ID: SSM18      Location: Irigaray Project, PU # 8</b>						
<b>Sample Date</b>	<b>Chloride (UCL 14.7 mg/l)</b>	<b>Conductivity (UCL 1849 umhos)</b>	<b>Alkalinity (UCL 119.4 mg/l)</b>	<b>pH</b>	<b>Water Level Elevation</b>	<b>Uranium as U<sub>3</sub>O<sub>8</sub></b>
04/01/03	19.3	1967	150	7.9	4314	< 0.4
04/09/03	19.4	1921	152.9	7.8	4314	< 0.4
04/14/03	19	1950	151	7.8	4315	< 0.4
04/21/03	19.6	1964	150.3	7.7	4315	< 0.4
04/28/03	19.6	1941	153.5	7.9	4314.5	< 0.4
05/07/03	19	1982	149.6	7.9	4315.8	< 0.4
05/12/03	18.7	1969	146.7	7.9	4315.9	< 0.4
05/19/03	18.8	1968	146.2	7.9	4314.9	< 0.4
05/27/03	18.3	1992	140.7	7.7	4315.8	< 0.4
06/02/03	19.3	2011	136.8	7.9	4315.6	< 0.4
06/10/03	18.9	1977	133.1	8	4314.5	< 0.4
06/16/03	19	1989	132.9	7.8	4315.7	< 0.4
06/26/03	19.3	1968	133.2	7.8	4315.9	< 0.4

<b>Monitor Well ID: SSM40      Location: Irigaray Project, PU # 8</b>						
<b>Sample Date</b>	<b>Chloride (UCL 13.6 mg/l)</b>	<b>Conductivity (UCL 1672 umhos)</b>	<b>Alkalinity (UCL 109.2 mg/l)</b>	<b>pH</b>	<b>Water Level Elevation</b>	<b>Uranium as U<sub>3</sub>O<sub>8</sub></b>
04/01/03	13.5	1631	108.8	8.3	4317	< 0.4
04/09/03	14.8	1690	114.6	8.1	4317	< 0.4
04/14/03	14.4	1686	110.9	7.9	4317	< 0.4
04/21/03	12.9	1689	102	7.9	4317	< 0.4
04/28/03	14.1	1713	110.1	8.1	4317.2	< 0.4
05/07/03	13.5	1633	107.7	8.2	4317.5	< 0.4
05/12/03	13.8	1743	105.8	8.3	4317.4	< 0.4
05/19/03	13.5	1680	105.7	8.4	4317.4	< 0.4
05/27/03	13.6	1671	105.2	8	4317.2	< 0.4
06/02/03	13.8	1698	97.9	8.3	4317.4	< 0.4
06/10/03	13.2	1631	95.1	8.3	4317.4	< 0.4
06/16/03	13.8	1687	96.2	8.2	4317.4	< 0.4
06/26/03	13.3	1626	94.6	8.2	4317.7	< 0.4

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

<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>
04/01/03	38.2	2483	134.1	7.4	4312	< 0.4
04/09/03	37.5	2459	136.9	7.8	4312	< 0.4
04/14/03	36.6	2458	132.4	7.7	4312	< 0.4
04/21/03	38.3	2450	139.1	7.7	4312	< 0.4
04/28/03	37.8	2448	139.5	7.8	4312.6	< 0.4
05/07/03	39.4	2542	141	7.9	4312.9	< 0.4
05/12/03	36.7	2530	134.9	7.8	4312.7	< 0.4
05/19/03	37.4	2518	137.6	7.9	4312.7	< 0.4
05/27/03	37.4	2518	132.9	7.7	4312.8	< 0.4
06/02/03	37.4	2523	126.1	7.9	4312.8	< 0.4
06/10/03	36.9	2501	123.4	7.9	4311.7	< 0.4
06/16/03	38	2533	121.3	7.8	4312.8	< 0.4
06/26/03	38.1	2487	124.1	7.8	4312.9	< 0.4

<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>
04/01/03	50.2	1735	169.6	7.9	4304	< 0.4
04/09/03	49.8	1698	171.2	8	4305	< 0.4
04/14/03	50.2	1709	171.9	7.9	4305	< 0.4
04/21/03	50.2	1732	172.7	7.9	4305	< 0.4
04/28/03	51.4	1724	170.4	8	4305.1	< 0.4
05/07/03	50	1697	171	8	4305.2	< 0.4
05/12/03	49.7	1721	170.2	8	4305.1	< 0.4
05/19/03	50.5	1729	167.5	8	4305.1	< 0.4
05/27/03	49.5	1709	165.1	8	4305	< 0.4
06/02/03	45.6	1719	161.9	8	4305.1	< 0.4
06/10/03	49	1683	151.2	8	4304.9	< 0.4
06/16/03	49.6	1703	150.3	8	4305.1	< 0.4
06/26/03	48.7	1632	152.8	8	4305.2	< 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>
04/01/03	39.1	1729	142.8	8.1	4310	< 0.4
04/09/03	39.4	1717	144.4	8	4311	< 0.4
04/14/03	38.9	1717	139.5	7.9	4311	< 0.4
04/21/03	37.9	1720	135	7.9	4311	< 0.4
04/28/03	38.3	1713	140.1	8.1	4311	< 0.4
05/07/03	37.9	1732	137.7	8.1	4311.1	< 0.4
05/12/03	36.8	1765	134.8	8.1	4311.1	< 0.4
05/19/03	38.6	1768	139.4	8.1	4311	< 0.4
05/27/03	38.3	1759	135.1	8	4311	< 0.4
06/02/03	36.8	1768	127.5	8.1	4311	< 0.4
06/10/03	38.1	1746	124.6	8.1	4310.2	< 0.4
06/16/03	38.2	1749	123.4	8	4311.1	< 0.4
06/26/03	38.8	1722	124.1	8	4311.2	< 0.4

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

<b>Monitor Well ID: DM10      Location: Irigaray Project, PU # 6</b>						
<b>Sample Date</b>	<b>Chloride (UCL 16.4 mg/l)</b>	<b>Conductivity (UCL 606 umhos)</b>	<b>Alkalinity (UCL 107.5 mg/l)</b>	<b>pH</b>	<b>Water Level Elevation</b>	<b>Uranium as U<sub>3</sub>O<sub>8</sub></b>
04/01/03	30.3	810	200.8	8.4	4316	< 0.4
04/09/03	31.2	798	209.8	8.4	4316	< 0.4
04/14/03	31.2	802	206.2	8.3	4316	< 0.4
04/21/03	30.1	802	196.8	8.2	4316	< 0.4
04/28/03	30.9	805	206.7	8.4	4316.8	< 0.4
05/07/03	31	815	209.8	8.4	4317	< 0.4
05/12/03	30.3	825	206.3	8.4	4317	< 0.4
05/19/03	30.6	822	205	8.4	4316.9	< 0.4
05/27/03	30.4	818	200.2	8.3	4317.2	< 0.4
06/02/03	29.6	824	188.9	8.4	4311	< 0.4
06/10/03	29.7	813	183.3	8.3	4316.5	< 0.4
06/16/03	29.9	817	181.6	8.3	4316.9	< 0.4
06/26/03	30.3	809	180.8	8.4	4317.1	< 0.4

<b>Monitor Well ID: 5MW54      Location: Christensen Project, MU # 5</b>						
<b>Sample Date</b>	<b>Chloride (UCL 22.7 mg/l)</b>	<b>Conductivity (UCL 1004 umhos)</b>	<b>Alkalinity (UCL 134.3 mg/l)</b>	<b>pH</b>	<b>Water Level Elevation</b>	<b>U<sub>3</sub>O<sub>8</sub></b>
04/01/03	15.2	838	107.4	10.9	4500	< 0.4
04/12/03	15	722	79.6	10.7	4489	< 0.4
04/14/03	14.9	745	79.8	10.7	4497	< 0.4
04/22/03	15.8	752	81.6	10.8	4498.4	< 0.4
05/19/03	34	1327	322	7.3	4506.7	< 0.4
05/21/03	40.9	1536	389.9	7.4	4508.5	< 0.4
05/27/03	35.3	1383	338.9	7.2	4512.1	< 0.4
06/02/03	43	1666	421.8	7.3	4508.3	< 0.4
06/10/03	48.6	1667	463.2	7.3	4508.3	< 0.4
06/16/03	38.2	1504	375	7.5	4503.4	< 0.4
06/26/03	50.2	1795	508.6	7.2	4506.5	< 0.4

<b>Monitor Well ID: 5MW8      Location: Christensen Project, MU # 5</b>						
<b>Sample Date</b>	<b>Chloride (UCL 23.0 mg/l)</b>	<b>Conductivity (UCL 1423 umhos)</b>	<b>Alkalinity (UCL 122.5 mg/l)</b>	<b>pH</b>	<b>Water Level Elevation</b>	<b>U<sub>3</sub>O<sub>8</sub></b>
04/01/03	34.4	1280	289.6	7.7	4536	< 0.4
04/09/03	33.6	1245	270.2	7.7	4539	< 0.4
04/14/03	31.4	1221	267.6	7.8	4535	< 0.4
04/22/03	32.4	1228	283.7	7.9	4538.3	< 0.4
04/29/03	30.3	1186	264.7	7.8	4533.4	< 0.4
05/06/03	29.8	1184	257.9	7.7	4541.6	< 0.4
05/12/03	29.5	1212	250.8	7.7	4543.6	< 0.4
05/19/03	27.9	1144	237.9	7.9	4544.2	< 0.4
05/27/03	26.1	1137	229.9	7.7	4541.2	< 0.4
06/02/03	25.7	1123	223.6	7.7	4541.1	< 0.4
06/10/03	25.5	1089	204.1	7.8	4540.9	< 0.4
06/17/03	23.3	1055	208.1	8	4539.9	< 0.4
06/26/03	23.2	1037	201.1	7.8	4540.8	< 0.4