



**COGEMA**  
Mining, Inc.

April 3, 2000

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

Mr. Thomas H. Essig, Chief  
Uranium Recovery Branch  
Division of Waste Management  
Mail Stop T7J9  
Nuclear Regulatory Commission  
Washington, D.C. 20555

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

Dear Mr. Essig:

This letter serves as a progress report, as required by License Section 11.2 and 12.2, summarizing the 8 monitor wells which remained on excursion status during the first quarter of 2000. Seven of these wells are located at the Irigaray Mine, while well MW89 is at the Christensen Mine. The attached table MONITOR WELLS ON EXCURSION STATUS, lists the weekly sample analysis data and water level elevations for each well. Note that the values in bold exceed their respective UCL.

**IRIGARAY MINE**

Interior Unit 1 Sand Monitor Wells

SSM3 (Production Unit 2) has been on excursion status since August 28, 1996. A small net decrease was noted in conductivity, while chloride and alkalinity showed no significant net changes at the end of the quarter. On March 29, chloride was 54.7 (UCL 38.5), conductivity was 1728 (UCL 1451) and alkalinity was 151.4 (UCL 219.1). Note that monitor wells SSM3, SSM41, SSM42 and SSM43 are all located in restored mine units, therefore, no corrective actions have been taken.

SSM18 (Production Unit 8) has been on excursion status since September 11, 1996. A small net increase was noted in alkalinity, while chloride and conductivity showed no significant net change at the end of the quarter. On March 29, chloride was 18.5 (UCL 14.7), conductivity was 1701 (UCL 1849) and alkalinity was 150.1 (UCL 119.4). Note that monitor wells SSM18, SSM40 and DM10 are all located in Mine Units 6-9, which are currently in restoration. Therefore, no corrective actions have been taken.

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SSM40 (Production Unit 8) has been on excursion status since March 6, 1994. Small net decreases were noted in all three excursion parameters, at the end of the quarter. On March 29, chloride was 14.4 (UCL 13.6), conductivity was 1530 (UCL 1672) and alkalinity was 111.3 (UCL 109.2).

SSM41 (Production Unit 4) has been on excursion status since November 17, 1998. Conductivity showed a small net decrease, alkalinity showed a small net increase, while chloride showed no significant net change, at the end of the quarter. On March 29, chloride was 33.4 (UCL 24.9), conductivity was 2369 (UCL 2566) and alkalinity was 133.1 (UCL 126.8).

SSM42 (Production Unit 3) has been on excursion status since October 10, 1990. Conductivity showed a small net decrease, alkalinity showed a small net increase, while chloride showed no significant net change, at the end of the quarter. On March 29, chloride was 56.3 (UCL 23.3), conductivity was 2237 (UCL 1571) and alkalinity was 138.2 (UCL 213.2).

SSM43 (Production Unit 1) has been on excursion status since October 11, 1989. No significant net changes were noted in the three excursion parameters, at the end of the quarter. On March 29, chloride was 34.8 (UCL 25.6), conductivity was 1676 (UCL 1456) and alkalinity was 139.0 (UCL 170.4).

#### Interior Deep Sand Monitor Wells

DM10 (Production Unit 6) has been on excursion status since February 2, 1994. All three excursion parameters showed net decreases at the end of the quarter, with conductivity being the most significant. On March 29, chloride was 18.0 (UCL 16.4), conductivity was 715 (UCL 606) and alkalinity was 170.9 (UCL 107.5).

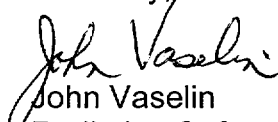
#### CHRISTENSEN MINE

#### Perimeter Ore Zone Monitor Wells

MW89 (Mine Unit 2) has been on excursion status since October 5, 1999. No significant net changes were noted in the three excursion parameters, at the end of the quarter. On March 29, chloride was 16.1 (UCL 13.6), conductivity was 747 (UCL 823) and alkalinity was 123.2 (UCL 121.3).

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

Sincerely,

  
John Vaselin  
Radiation Safety Officer

cc: Division Director/NRC, Arlington, TX  
Tom Hardgrove/COGEMA

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<b>Monitor Well ID # : SSM3      Location: Irigaray Mine, PU#2</b>						
Sample Date	CL mg/l UCL 38.5	Cond. umhos UCL 1451	Alk. mg/l UCL 219.1	pH	Water Level Elevation	U308 mg/l
1-04-00	54.8	1758	148.7	7.9	4307.1	<0.4
1-11-00	55.4	1764	148.8	7.9	4307.1	<0.4
1-18-00	55.6	1765	149.3	7.8	4307.1	<0.4
1-25-00	55.7	1770	148.9	7.8	4307.2	<0.4
2-01-00	55.4	1766	148.9	7.7	4307.2	<0.4
2-08-00	56.2	1762	148.6	7.8	4307.3	<0.4
2-14-00	55.2	1773	151.3	7.8	4307.4	<0.4
2-22-00	55.4	1772	149.2	7.8	4307.2	<0.4
2-28-00	55.9	1776	152.0	7.8	4307.3	<0.4
3-07-00	56.3	1784	147.4	7.8	4307.3	<0.4
3-13-00	53.2	1772	150.3	7.8	4307.0	<0.4
3-20-00	55.8	1752	149.5	7.8	4307.1	<0.4
3-29-00	54.7	1728	151.4	7.8	4306.9	<0.4

<b>Monitor Well ID # : SSM18      Location: Irigaray Mine, PU#8</b>						
Sample Date	CL mg/l UCL 14.7	Cond. umhos UCL 1849	Alk. mg/l UCL 119.4	pH	Water Level Elevation	U308 mg/l
1-04-00	18.1	1706	143.7	7.8	4310.8	<0.4
1-11-00	18.9	1718	148.6	7.9	4310.9	<0.4
1-18-00	18.2	1709	144.3	7.9	4310.8	<0.4
1-25-00	18.8	1723	147.4	7.8	4310.9	<0.4
2-01-00	19.7	1730	156.2	7.8	4311.0	<0.4
2-08-00	19.8	1733	154.5	8.0	4311.1	<0.4
2-14-00	18.8	1734	152.5	7.9	4311.2	<0.4
2-22-00	18.5	1722	148.0	8.0	4311.0	<0.4
2-28-00	19.4	1720	157.5	8.0	4311.0	<0.4
3-07-00	18.9	1735	147.5	7.9	4311.0	<0.4
3-13-00	18.6	1746	150.7	8.0	4310.9	<0.4
3-20-00	18.7	1722	146.8	8.0	4310.9	<0.4
3-29-00	18.5	1701	150.1	7.8	4310.6	<0.4

<b>Monitor Well ID # : SSM40      Location: Irigaray Mine, PU#8</b>						
Sample Date	CL mg/l UCL 13.6	Cond. umhos UCL 1672	Alk. mg/l UCL 109.2	pH	Water Level Elevation	U308 mg/l
1-04-00	15.1	1522	115.7	7.9	4312.5	<0.4
1-11-00	14.1	1513	108.4	8.1	4312.6	<0.4
1-18-00	14.6	1512	111.1	8.1	4312.5	<0.4
1-25-00	14.0	1505	106.7	8.1	4312.6	<0.4
2-01-00	14.4	1514	110.1	8.2	4312.7	<0.4
2-08-00	14.3	1526	105.6	8.3	4312.7	<0.4
2-14-00	13.9	1522	108.7	8.2	4312.8	<0.4
2-22-00	14.0	1512	104.9	8.2	4312.7	<0.4
2-28-00	13.9	1523	108.1	8.3	4312.7	<0.4
3-07-00	13.9	1514	102.4	8.2	4312.7	<0.4
3-13-00	13.9	1533	107.7	8.3	4312.6	<0.4
3-20-00	14.4	1519	107.7	8.4	4312.6	<0.4
3-29-00	13.7	1480	108.1	8.2	4312.3	<0.4

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<b>Monitor Well ID # : SSM41      Location: Irigaray Mine, PU#4</b>						
Sample Date	CL mg/l UCL 24.9	Cond. umhos UCL 2566	Alk. mg/l UCL 126.8	pH	Water Level Elevation	U308 mg/l
1-04-00	32.1	2407	126.8	7.8	4307.0	<0.4
1-11-00	32.6	2398	128.7	7.9	4307.1	<0.4
1-18-00	32.8	2416	128.7	7.8	4307.1	<0.4
1-25-00	33.0	2409	129.0	7.8	4307.1	<0.4
2-01-00	32.0	2409	127.2	7.8	4307.2	<0.4
2-08-00	32.9	2409	127.6	7.9	4307.3	<0.4
2-14-00	32.4	2424	129.9	7.8	4307.3	<0.4
2-22-00	32.8	2414	128.9	7.9	4307.3	<0.4
2-28-00	32.2	2410	129.7	7.8	4307.3	<0.4
3-07-00	33.0	2424	126.3	8.0	4307.2	<0.4
3-13-00	32.6	2428	131.6	7.9	4307.2	<0.4
3-20-00	33.4	2411	128.4	7.9	4307.0	<0.4
3-29-00	33.4	2369	133.1	7.8	4306.7	<0.4

<b>Monitor Well ID # : SSM42      Location: Irigaray Mine, PU#3</b>						
Sample Date	CL mg/l UCL 23.3	Cond. umhos UCL 1571	Alk. mg/l UCL 213.2	pH	Water Level Elevation	U308 mg/l
1-04-00	55.2	2272	130.4	7.8	4302.7	<0.4
1-11-00	56.3	2268	132.1	7.8	4302.8	<0.4
1-18-00	57.6	2274	137.6	7.8	4302.7	<0.4
1-25-00	56.8	2278	132.7	7.8	4302.7	<0.4
2-01-00	55.9	2272	133.1	7.8	4302.7	<0.4
2-08-00	56.7	2255	133.2	7.9	4302.8	<0.4
2-14-00	56.0	2264	136.6	7.8	4302.9	<0.4
2-22-00	59.0	2253	143.8	7.8	4302.8	<0.4
2-28-00	58.0	2252	143.4	7.8	4302.8	<0.4
3-07-00	56.5	2260	132.9	7.9	4302.7	<0.4
3-13-00	56.2	2273	138.6	7.8	4302.7	<0.4
3-20-00	58.2	2246	136.1	7.9	4302.7	<0.4
3-29-00	56.3	2237	138.2	7.8	4302.6	<0.4

<b>Monitor Well ID # : SSM43      Location: Irigaray Mine, PU#1</b>						
Sample Date	CL mg/l UCL 25.6	Cond. umhos UCL 1456	Alk. mg/l UCL 170.4	pH	Water Level Elevation	U308 mg/l
1-04-00	34.8	1696	135.9	7.9	4305.8	<0.4
1-11-00	34.9	1694	136.2	8.0	4305.8	<0.4
1-18-00	34.1	1704	133.0	8.0	4305.8	<0.4
1-25-00	35.3	1709	137.0	8.0	0.0	<0.4
2-01-00	36.6	1704	144.0	7.9	4305.9	<0.4
2-08-00	35.0	1702	135.1	8.1	4306.0	<0.4
2-14-00	34.3	1709	136.9	7.9	4306.0	<0.4
2-22-00	34.7	1709	135.6	8.0	4306.0	<0.4
2-28-00	36.3	1706	144.3	7.9	4306.0	<0.4
3-07-00	35.5	1716	135.7	8.1	4306.0	<0.4
3-13-00	34.8	1725	138.3	8.0	4305.9	<0.4
3-20-00	35.7	1709	136.6	8.1	4305.8	<0.4
3-29-00	34.8	1676	139.0	8.0	4305.6	<0.4

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<b>Monitor Well ID # : DM10                      Location: Irigaray Mine, PU#6</b>						
Sample Date	CL mg/l UCL 16.4	Cond. umhos UCL 606	Alk. mg/l UCL 107.5	pH	Water Level Elevation	U308 mg/l
1-04-00	20.0	771	180.2	8.1	4281.3	<0.4
1-11-00	19.9	768	178.6	8.3	4282.1	<0.4
1-18-00	20.0	778	179.4	8.2	4283.6	<0.4
1-25-00	20.9	784	181.1	8.2	4284.7	<0.4
2-01-00	20.6	785	186.2	8.1	4286.1	<0.4
2-08-00	20.9	778	183.3	8.3	4286.2	<0.4
2-14-00	20.5	785	188.2	8.3	4285.5	<0.4
2-22-00	20.1	769	182.6	8.3	4279.2	<0.4
2-28-00	20.8	772	194.2	8.3	4277.7	<0.4
3-07-00	20.5	772	179.0	8.4	4276.6	<0.4
3-13-00	20.1	778	184.0	8.3	4273.1	<0.4
3-20-00	19.9	751	174.3	8.4	4263.3	<0.4
3-29-00	18.0	715	170.9	8.3	4259.5	<0.4

<b>Monitor Well ID # : MW89                      Location: Christensen Mine, MU#2</b>						
Sample Date	CL mg/l UCL 13.6	Cond. umhos UCL 823	Alk. mg/l UCL 121.3	pH	Water Level Elevation	U308 mg/l
1-03-00	16.2	743	119.6	8.3	4506.8	<0.4
1-10-00	15.5	740	117.2	8.3	4510.1	<0.4
1-17-00	16.7	756	122.6	8.3	4506.8	<0.4
1-24-00	16.9	756	131.3	8.2	4500.4	<0.4
1-31-00	16.8	757	121.6	8.4	4500.4	<0.4
2-07-00	16.7	759	123.7	8.2	4498.7	<0.4
2-14-00	17.0	753	124.9	8.1	4498.9	<0.4
2-22-00	18.3	761	130.5	8.3	4497.7	<0.4
2-28-00	16.6	753	127.1	8.2	4497.3	<0.4
3-06-00	18.1	760	135.0	8.3	4505.3	<0.4
3-13-00	16.5	745	126.4	8.4	4506.1	<0.4
3-20-00	16.7	753	125.9	8.3	4506.9	<0.4
3-27-00	16.1	747	123.2	8.4	4502.2	<0.4