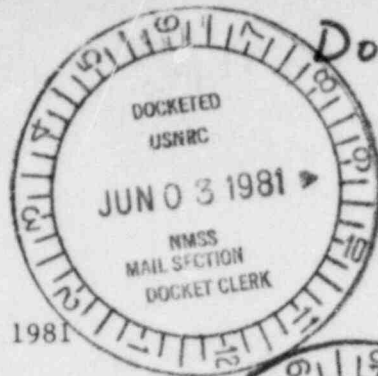




R. M. Tuthill
Manager - Uranium



Docket No.

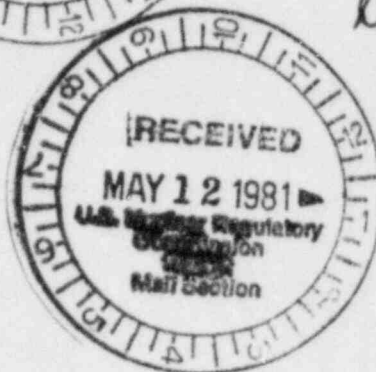
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PDR

Return to
D. Cramer

396-55

May 7, 1981



Mr. R. A. Scarano
Uranium Recovery Licensing Branch
Division of Waste Management
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Gentlemen:

Re: Source Material License SUA-1352
Docket No. 040-08714
Exceeding UCLs for SO₄ and TDS in Well 241

On April 14, 1981, well field Monitor Well 241 exceeded its upper control limit (UCL) for sulfate and total dissolved solids. The UCL for sulfate is 161 and the UCL for total dissolved solids is 488. The assay for April 14 reported sulfate to be at 255 ppm and total dissolved solids to be at 694 ppm. Due to laboratory delay, the routine two-week sampling results were not received until Friday, April 24. The confirmation sample was then taken on April 27. This sample showed the sulfate level to be at 238 ppm and the total dissolved solids level to be at 630 ppm. Daily sampling has taken place since April 29, and the samples have been analyzed for sulfate, total dissolved solids, arsenic and selenium as per Condition 17.

The results are listed below:

	Sulfate mg/l	TDS mg/l	Arsenic mg/l	Selenium mg/l
April 14 - Routine 2-week sampling	255	694	--	--
April 24	246	724	--	--
April 27	238	630	< .001	.092
April 29	288	763	< .001	.112
April 30	288	764	< .001	.138
May 1	232	622	< .001	.084
May 2	228	612	< .001	.088
May 3	228	620	< .001	.122
May 4	224	588	< .001	.116



Well 241, which can be located on the enclosed map entitled "Figure B", is the northwest monitor well.

Four other parameters besides sulfate and total dissolved solids are included in the regular excursion well field monitor program. These parameters include

FEE EXEMPT

The Cleveland-Cliffs Iron Co

300 Country Club Road - P.O. Box 3140 - Casper, WY 82602 - 307/234-9133

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Add'l info

R. A. Scarano
May 7, 1981
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pH, uranium, ammonia, and total bicarbonate plus carbonate. These four other parameters have shown little variance in recent analyses and do not indicate a migration of mine chemicals.

Corrective action was begun as soon as the confirmation sample analysis was received. On April 25, pumps were placed in Wells 296 and 297 in an attempt to draw any mine chemical fluids back towards the A-1 pattern. The injection of mine chemicals into Well 281 was also discontinued.

In conclusion, our analysis of the extent of the excursion is that the mine zone chemicals have not migrated past Monitor Well 241. We currently are using the corrective measures mentioned above. Daily monitoring of Well 241 will continue until further notice.

Respectfully,

THE CLEVELAND-CLIFFS IRON COMPANY

Truman E. Louderback *epw*

Truman E. Louderback
Director of Environmental Affairs

TEL:alm

Enclosure

S6/TL1/T

SEE

APERTURE

CARDS

APERTURE CARD NO# 810610033

AVAILABILITY PDR CF _____ HOLD _____

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