



SOHIO WESTERN MINING COMPANY

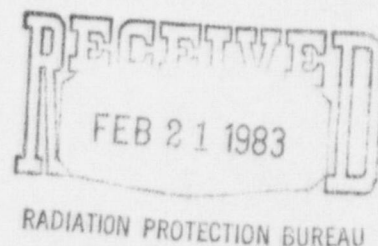
P.O. BOX 25201, ALBUQUERQUE, NEW MEXICO 87125

URANIUM OPERATIONS

TELEPHONE (505) 242-2762

February 15, 1983

Mr. C. Kelly Crossman
New Mexico Environmental Improvement Division
Radiation Protection Bureau
Licensing and Registration Section
P.O. Box 968
Santa Fe, New Mexico 87504



Dear Mr. Crossman:

As required by Radioactive Materials License NM-SOH-ML-R1-01, Condition #16, the attached report summarizes estimated radionuclides released from Sohio Western Mining Company's L-Bar Uranium Mill and tailings area for the second half of 1982.

Contained in the report are conservative estimates of radon release and actual environmental monitoring data.

If you have any questions, please feel free to contact me.

Sincerely,

J. H. Olsen, Jr., P.E.
Maint./Tech. Supervisor

JHO/bm

cc: E. K. Kopp
M. Madden - Chino Mines

9803100272 830215
PDR ADOCK 04008904
C PDR

SOHIO WESTERN MINING COMPANY
L-BAR URANIUM OPERATIONS

STACK RELEASES

No effluents were released from the mill stack during the second half, 1982.

Gaseous Releases (Radon-222)

<u>SOURCE</u>	<u>AMOUNT, 2ND HALF, 1982</u>	
Tailings Area	<i>computed totals 6 mo</i> 1,116.6	CI UNITS?
Ore Storage Pad	47.5	Total? Average?

LIQUID EFFLUENTS

No radionuclide liquid effluents were released from this restricted area during the second half of 1982.

seepage and pump back balanced? yes
no effluents to the tailings pond

SOHIO WESTERN MINING COMPANY
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MONITORING RESULTS

RADIONUCLIDE AIR PARTICULATE (In pCi/M³)

where are these?

Second Quarter, 1982

<u>SITE</u>	<u>RA226</u>	<u>Th230</u>	<u>Pb210</u>	<u>UNAT</u>
1	3.32 E-4	2.77 E-4	1.27 E-2	2.54 E-4
2	1.39 E-4	1.29 E-4	1.39 E-2	7.76 E-5
3	1.07 E-4	2.55 E-3	4.16 E-3	3.56 E-3
4	4.80 E-4	8.80 E-4	5.04 E-3	3.12 E-3
5	3.01 E-4	1.22 E-4	1.31 E-2	4.38 E-4
6	2.57 E-3	5.65 E-4	1.85 E-2	3.90 E-4
8	4.26 E-4	4.26 E-4	2.02 E-2	1.70 E-4
11	7.17 E-5	1.79 E-4	1.67 E-2	1.43 E-4

Third Quarter, 1982

<u>SITE</u>	<u>RA226</u>	<u>Th230</u>	<u>Pb210</u>	<u>UNAT</u>
1	3.31 E-4	3.67 E-4	6.43 E-2	1.38 E-4
2	3.48 E-4	4.51 E-5	1.12 E-4	8.75 E-5
3	9.58 E-4	3.54 E-3	8.84 E-3	2.14 E-3
4	1.85 E-4	2.19 E-3	2.54 E-3	2.19 E-3
5	6.57 E-4	7.66 E-4	1.19 E-2	5.97 E-4
6	5.22 E-3	3.69 E-3	2.52 E-2	3.51 E-4
8	4.65 E-4	6.79 E-4	4.46 E-3	1.94 E-4
11	5.31 E-5	1.89 E-4	8.06 E-3	6.43 E-5

*What does ND in previous reports mean?
none detected. Below limits of detection*

*#3 1 1/2 SSE of site
on UNC road*

SOHIO WESTERN MINING COMPANY
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Radon 222
(Results in pCi)
1

*gal samples?
averages?*

<u>Site</u>	<u>Third Quarter, 1982</u>	<u>Fourth Quarter, 1982</u>
1	0.63	1.27
2	0.48	0.88
3	0.48	0.50
4	0.29	1.24
5	1.97	3.03 -
6	0.59	0.66
8	1.87	0.76
11	0.48	0.74

*cumulative
reading*

Area Thermoluminescent Dosimeters

<u>Site</u>	<u>Calculated Annual mRem Second Half, 1982</u>	<u>Calculated Annual mRem First Half, 1982</u>
1	110	109
2	113	109
3	90	99
4	93	99
5	123	127
11	85	87

Tailings Area Thermoluminescent Dosimeters

<u>Site</u>	<u>Calculated Annual mRem Second Half, 1982</u>	<u>Calculated Annual mRem First Half, 1982</u>
6	124	113
7	105	105
8	104	110
9	132	121
10	112	123