

UNC MINING AND MILLING

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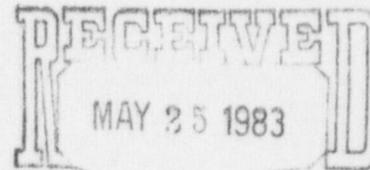


Division of United Nuclear Corporation
A **UNC RESOURCES** Company

Church Rock Operations
P.O. Drawer QQ

Gallup, New Mexico 87301
Telephone 505/722-6651

May 24, 1983



RADIATION PROTECTION BUREAU

Mr. Gerald Stewart
Program Manager
Radiation Protection Bureau
N.M. Environmental Improvement Division
P.O. Box 968
Santa Fe, NM 87504-0968

Re: Radioactive Materials License No. NM-UNC-ML-17

Dear Mr. Stewart:

In compliance with License Condition No. 21, the attached effluent report is presented. This report specifies the concentration of each principal radionuclide released to unrestricted areas in gaseous effluent during the period of July 1, 1982 thru December 31, 1982. The report also estimates the maximum annual radiation dose to the public resulting from effluent releases.

Results for Wells TWQ-126 and TWQ-450 are being reported as requested by Mr. Kent Breese of the EID by letter dated January 3, 1983 to Mr. Thomas M. Hill of UNC. Please be advised that reporting of this data does not constitute an agreement by UNC that these wells are located in an unrestricted area. The dose rate to man from these wells was not calculated as agreed during a telephone conversation on May 20, 1983 between Elmer Martinez of UNC and Kent Breese of the EID.

We apologize for the delay in submitting the report. It occurred because of Mr. Breese's request noted above. This information was submitted to legal counsel for review and advisement.

Should you have any questions or desire additional information, please do not hesitate to contact Mr. Juan Velasquez at (505) 988-9208 or 982-4611.

Sincerely,


E. D. Martinez
Radiation Safety Officer

EDM/v

cc: E. M. Morales
G. A. Swanquist
J. R. Velasquez
T. Brough

9804140261 830524
PDR ADOCK 04008907
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CHURCHROCK URANIUM MILL EFFLUENT

July 1982 to December 1982

	<u>Liquid Effluent</u> ⁽¹⁾		<u>Annual Population Dose Rate Estimate (2)</u>
	<u>Well No. 124</u>	<u>Well No. 450A</u>	
U-Natural	3.32×10^{-18} uCi/ml	1.73×10^{-18} uCi/ml	
Th-230	3.2×10^{-5} uCi/ml	1.43×10^{-5} uCi/ml	
Ra-226	2.9×10^{-9} uCi/ml	2.15×10^{-9} uCi/ml	
	<u>Gaseous & Particulate Effluent</u>		
U-Natural	$0.0^{(3)}$ uCi/ml		0.00
Th-230	5.76×10^{-16} uCi/ml		0.25
Ra-226	1.15×10^{-15} uCi/ml		0.09
Rn-222	1.47×10^{-10} uCi/ml		<u>69.16</u>
Total			69.50

(1) Please refer to letter dated May 24, 1983 from Elmer Martinez of UNC to Gerald Stewart of the EID.

(2) Dose Rate Estimate reported in Man-Rems per year.

(3) All measurements below observed background values.