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**UNC TETON EXPLORATION DRILLING, INC.**

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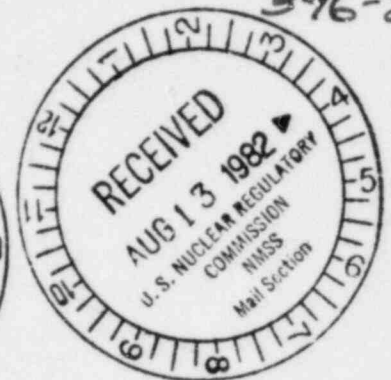
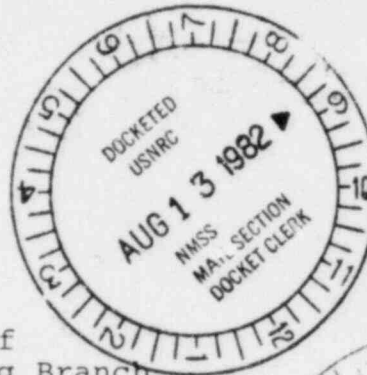


Subsidiary of United Nuclear Corporation  
A **UNC RESOURCES** Company

P.O. Drawer A-1  
Casper, Wyoming 82602

Telephone 307/265-4102

July 21, 1982



Mr. Ross A. Scarano, Chief  
Uranium Recovery Licensing Branch  
Division of Waste Management  
U. S. NUCLEAR REGULATORY COMMISSION  
Mail Stop 461-SS  
7915 Eastern Avenue  
Silver Springs, Maryland 20910

and

Ms. Cathleen McCarty  
Land Quality Division  
Department of Environmental Quality  
401 West 19th Street  
Cheyenne, Wyoming 82002

RE: Source Material License SUA-1373  
Docket No. 040-8728  
Research & Development License 2RD now License 522

SUBJECT: QUARTERLY REPORT - April 1 through June 30, 1982

Gentlemen:

In accordance with the referenced License SUA-1373, condition number 35 Teton Nedco Joint Venture Partners herein presents the tenth quarterly report for its Pilot In Situ Uranium Operation in Converse County, Wyoming.

Site activities during the quarter were generally related to continuing wellfield sampling for groundwater stability demonstrations, pond water level and detection tube measurements, removal of equipment for salvage sales to restricted licensed operations and continuing in-plant and area radiological monitoring.

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Quarterly Report - April 1 through June 30, 1982

July 21, 1982

Page two



1.0 Solar Evaporation Ponds and Leak Detection Systems

No solution was added to the ponds during the quarter. Monthly checks of the detection system revealed no leaks in either pond. Pond levels are now at 12.1' (1.4m Gal) in the North Pond and 13' (1.78m Gal) in the South Pond. Teton anticipates sampling the ponds in September or October to determine the evaporation effect on chemical constituents.

2.0 N-Zone Restoration Stabilization

The final N Zone stability report was submitted to the NRC during the quarter along with an authorization by the Wyoming DEQ to abandon the wells. In order to answer questions relative to data inconsistencies, an additional set of samples was drawn in June, 1982 and an addendum report was submitted to both agencies.

3.0 M-Zone Restoration Stability

The sixth monthly post restoration stability samples were drawn from the nine designated wells on June 21, 1982. Available data from the restoration stability program is attached to this report. Additional samples from the wells will be drawn on a quarterly basis through the remainder of 1982. The M Zone restoration report was completed and submitted to the NRC and the Wyoming DEQ during the quarter.

4.0 Radiation Safety

As a result of decreased interim activities in the plant and on site an amendment to the license was requested to decrease radiation and environmental monitoring to a level consistent with the status of the operation. Radon<sup>222</sup> gas concentrations during the quarter averaged  $3.33 \times 10^{-9}$   $\mu\text{Ci}/\text{m}^3$ .

0400872800E

Quarterly Report - April 1 through June 30, 1982

July 21, 1982

Page three



4.0 Radiation Safety (continued)

Surface contamination area surveys were performed during the quarter in the plant and storage trailer. Of the 79 stations sampled, alpha activity averaged 16.62 DPM/100 cm.

Environmental Rn<sup>222</sup> samples and air particulate hi vol samples continue to be run on a quarterly frequency. Data is not yet available from these surveys. Final quarter and annual area TLD spheres are due for collection in July, 1982.

Available data from the site radiological program and a copy of the plant activity log is attached to this report.

Sincerely,

UNC TETON EXPLORATION DRILLING, INC.

Richard R. Appel  
Coordinator - Permits and Licensing

RRA/mdd  
Attachments

Report Reviewed:   
Richard R. Appel  
Coordinator-Permits & Licensing

Roger A. Garling  
Project Manager