

# PETROTOMICS COMPANY

GETTY OIL COMPANY • MANAGING PARTNER

P. O. DRAWER 2489 • CASPER, WYOMING 82601

March 10, 1971

Mr. John W. Flora, Director of Region IV  
USAEC  
Division of Compliance  
Denver, CO 80210

LICENSE SUA-551

Dear Mr. Flora:

Enclosed are photographs, a map and analytical results pertaining to the effluent sump dike leakage below the Petrotomics Company main tailings pond as reported by telegram February 16, 1971.

Sample collection points are designated on the map with red arrows and correspond to Hazen Research, Inc. analysis numbers 1, 2 and 3.

The area within the light blue line indicates property owned by Getty Oil Company, a partner in Petrotomics Company. The property east and north of the Getty Oil Company property is owned by Petrotomics Company. Sample station 2 is the extremity of the seepage and is within the property boundary.

Much of the solution has been absorbed in this draw and spring thaws will dilute surface remains. We will sample the area again during run-off to determine the dilution status.

We have difficulty understanding the radium 226 assay of sample station 3 as none of the effluent reaches that point, stopping at station 2. Sample 3 was from an isolated puddle of water. It is also difficult to explain the presence of a high amount of radium 226 and such a small amount of uranium (natural) and thorium 230.

The enclosed photograph S-1 shows the sump dike which leaked and S-2 is the one located immediately above it. Both dikes have been built up, widened and solution levels pumped down as far as possible.

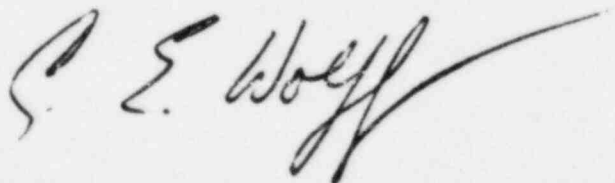
Pumps have been left in place to return solution to the main pond as required.

Please advise us relative to your comments or further questions.

B507300502 B50530  
PDR FOIA  
BURR85-229 PDR

CEW/cs

cc: Messrs: J. H. Whitman - H. G. Cooley





Petrotomics Company  
February 17, 1971

# HAZEN RESEARCH, INC.



4601 INDIANA STREET  
GOLDEN, COLORADO • 80401  
TELEPHONE 279-4549

## REPORT OF ANALYSIS

To: Mr. H. G. Cooley  
Petrotoomics Company  
P. O. Drawer 2450  
Casper, Wyoming 82601

Date: March 3, 1971

HRI Project No. 115  
HRI Series No. 3374

Sample Received- February 22, 1971

Analysis No.	Sample Designation	U	Ra 226	Th 230
		$\mu\text{c/ml} \times 10^{-5}$	$\mu\text{c/ml} \times 10^{-8}$	$\mu\text{c/ml} \times 10^{-6}$
3374-1	2-16-71 Fence Line Below Lower Effluent Pond	0.59	<0.001	69.32
-2	2-16-71 3000' Up (N.W.) of Sand Draw Confluence	0.45	<0.001	56.04
-3	2-16-71 Water at East Side of Culvert on Townsite Road	0.003	0.203	0.017

By: James K. Kindig  
James K. Kindig  
Senior Research Engineer

sih

### PLEASE NOTE:

1. Samples will be stored for a three-month period then discarded unless advised to the contrary.
2. When inquiring about the above samples please quote HRI Project No. and HRI Series No.

April 15, 1971

TO: MR. C. E. WOLFF  
FROM: H. G. COOLEY ✓  
SUBJECT: WATER EVAPORATION RATES

Source: Bureau of Reclamation

The following data indicates the water evaporation rates of Pathfinder Reservoir, which represents a 15 year average:

<u>MONTH</u>	<u>FEET</u>	<u>RATE INCHES</u>
January	.1014	1.217
February	.0950	1.140
March	.1619	1.943
April	.3125	3.750
May	.4154	4.935
June	.5272	6.326
July	.6614	7.937
August	.6092	7.310
September	.4305	5.166
October	.2764	3.317
November	.1517	1.820
December	.1008	1.210

Original Signed By  
H. G. COOLEY  
H. G. Cooley

cc: Messrs: G. A. Hamer  
R. W. Beattie  
C. W. Lembke

WCC/cs

A/93

40-6259  
Regulatory  
File OK

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF MINES  
HEALTH AND SAFETY ACTIVITY



HEALTH AND SAFETY REPORT

HEALTH AND SAFETY INSPECTION  
PETROTOMICS MILL  
PETROTOMICS COMPANY  
SHIRLEY BASIN, CARBON COUNTY, WYOMING

January 19, 1972

By

William H. Donley  
Mining Engineer

METAL AND NONMETAL MINE SAFETY  
ROCKY MOUNTAIN DISTRICT

A. Z. Dimitroff  
District Manager

Originating Office  
1600 East First South  
Salt Lake City, Utah 84112  
H. G. Plimpton  
Subdistrict Manager

A/94

### INTRODUCTION

This report is based on an inspection made pursuant to Section 4 of the Federal Metal and Nonmetallic Mine Safety Act (80 Stat. 772).

Health and safety standards referenced in the report were promulgated in the Federal Register, Vol. 34, No. 145, Thursday, July 31, 1969; Vol. 35, No. 38, Wednesday, February 25, 1970; and Vol. 35, No. 237, Tuesday, December 8, 1970. Notices are issued for observed violations of mandatory standards only. Elsewhere in the report, mandatory standards are indicated by (M) after the reference number.

### GENERAL INFORMATION

Employment: 51 Company Officials:

Work Schedule: J. H. Whitman, manager  
Hrs. per shift 10 C. E. Wolfe, mill superintendent  
Shifts per day 2 J. R. Hawkins, personnel and safety  
Days per week 5-1/2 supervisor

Type of Operation: Mill Principal Product: Uranium

Inspection Party: J. R. Hawkins, personnel and safety supervisor  
Clark Hartle, Deputy mine inspector  
William H. Donley, U.S. Bureau of Mines

### HAZARDS ELIMINATED DURING THE INSPECTION

55.14-45 (M). A welding screen was provided for the repair shop.

55.16-5 (M). The compressed gas cylinders in the shop were secured.

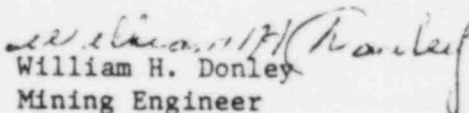
### RECOMMENDATIONS COVERED BY PROMULGATED ADVISORY STANDARDS

The portable cutting and welding equipment was not provided with fire extinguishers.

55.4-28. Portable cutting and welding equipment should be equipped with suitable fire extinguishers.

### ACKNOWLEDGMENT

The cooperation of officials of the Petrotonics mill and the representative of the State mine inspector, State of Wyoming, is gratefully acknowledged

  
William H. Donley  
Mining Engineer



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R  
Regulatory  
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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF MINES  
HEALTH AND SAFETY ACTIVITY



HEALTH AND SAFETY REPORT

HEALTH AND SAFETY INSPECTION  
PETROTOMICS MILL  
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SHIRLEY BASIN, CARBON COUNTY, WYOMING

January 19, 1972

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