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UTAH POWER & LIGHT COMPANY

1407 WEST NORTH TEMPLE STREET

P. O. BOX 899

SALT LAKE CITY, UTAH 84110

January 17, 1983

File
ACT/015/017
ACT/015/018-A
ACT/015/018-B
No. 10
Copy to Mary
& Pam & Wayne

JIM

JAN 18 1983

State of Utah
Department of Natural Resources
Division of Oil, Gas & Mining
4241 State Office Building
Salt Lake City, Utah 84114

Attention: Mr. James W. Smith, Jr.

Dear Mr. Smith:

In compliance with State and Federal regulations UMC 817.46(t), UMC 817.49(h) and 30 CFR 77.216-3, we submit the quarterly inspection reports for the sedimentation ponds at the Des-Bee-Dove, Wilberg and Deer Creek Mines for 1982.

Should you require any additional information, please advise.

Sincerely,



C. E. Shingleton
Director of Services
Mining and Exploration

CES:BMcQ:bb:3725
Encl.

cc: Larry Guymon

RECEIVED
JAN 18 1983

DIVISION OF
OIL, GAS & MINING



A SAVAGE BROTHERS COMPANY

January 10, 1983

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JAN 13 1983

MINING AND
EXPLORATION

Mr. Chris Shingleton
Director of Services
Mining and Exploration
Utah Power and Light Company
P. O. Box 899
Salt Lake City, UT 84110

Dear Chris:

Please find enclosed the Quarterly Sediment Pond Engineering Reports for 1982. These reports should be submitted to the Division of Oil, Gas and Mining as required by regulation.

Sincerely,

Larry J. Guymon
Manager of Construction Engineering

LJG/bb

Enclosures

RECEIVED

JAN 18 1983

DIVISION OF
OIL, GAS & MINING



A SAVAGE BROTHERS COMPANY

QUARTERLY ENGINEERING REPORT

DES-BEE SEDIMENT POND

1982

INTRODUCTION

This report is submitted in compliance with Federal and State Regulations.

UMC 817.46(t)
UMC 817.49(h)
30 CFR 77.216-3

STATEMENTS

Monitoring Procedures:

A series of six (6) check points have been established on the dam and abutments. Elevations are taken on these points during each quarterly inspection to monitor for settlement. They are listed below:

<u>Point</u>	<u>Baseline</u>	<u>1st Quarter</u>	<u>2nd Quarter</u>	<u>3rd Quarter</u>	<u>4th Quarter</u>
1	6775.43	6775.43	6775.57	6775.43	6775.43
2	6775.25	6775.24	6775.39	6775.25	6775.25
3	6775.44	6775.43	6775.58	6775.45	6775.45
4	6775.52	6775.51	6775.66	6775.52	6775.52
5	6775.83	6775.82	6775.96	6775.80	6775.80
6	6775.37	6775.37	6775.51	6775.33	6775.33

No settlement of these Control Points appeared throughout the year.



A SAVAGE BROTHERS COMPANY

QUARTERLY ENGINEERING REPORT

DEER CREEK SEDIMENT PONDS

1982

INTRODUCTION

This report is submitted in compliance with Federal and State Regulations.

UMC 817.46(t)
UMC 817.49(h)
30 CFR 77.216-3

STATEMENTS

Monitoring Procedures:

A series of four check points have been established on the dam and abutments. Elevations are taken on these points during each quarterly inspection as listed below to check for settlement:

<u>Point</u>	<u>Baseline</u>	<u>1st Quarter</u>	<u>2nd Quarter</u>	<u>3rd Quarter</u>	<u>4th Quarter</u>
1	7236.50	7236.49	7236.49	7236.48	7236.48
2	7236.54	7236.54	7236.55	7236.54	7236.54
3	7236.56	7236.56	7236.55	7236.55	7236.55
4	7235.96	7235.98	7235.97	7235.96	7235.96

No settlement has occurred during the year.

Elevations:

Design Depth	Top of Dam	7236.54
	Toe of Dam	7216.61

Impounded Water

<u>1st Quarter</u>	<u>2nd Quarter</u>	<u>3rd Quarter</u>	<u>4th Quarter</u>
7219.53	7219.35	7220.44	7220.44

Storage Capacity:

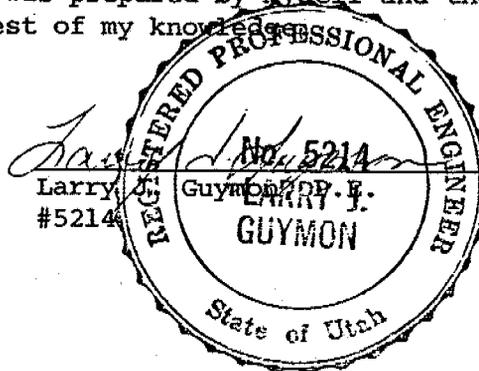
	<u>1st Quarter</u>	<u>2nd Quarter</u>	<u>3rd Quarter</u>	<u>4th Quarter</u>
Capacity	-	12.22 Ac.Ft.	12.22 Ac.Ft.	-
Sediment	-	.58 Ac.Ft.	.66 Ac.Ft.	-
Available	-	11.64 Ac.Ft.	11.56 Ac.Ft.	-

Ice covered the pond the 1st and 4th Quarter, therefore, no cross sections could be taken to determine capacity.

General:

Visual inspections were made during each quarterly inspection to check for erosion, structural weakness or other hazardous conditions; none were observed.

I do hereby certify that I am a Registered Professional Engineer in the State of Utah holding license #5214 and do also certify that the above report was prepared by myself and that it is true and correct to the best of my knowledge.



1-11-83
 Date



A SAVAGE BROTHERS COMPANY

QUARTERLY ENGINEERING REPORT

COTTONWOOD SEDIMENT PONDS

1982

INTRODUCTION

This report is submitted in compliance with Federal and State Regulations.

UMC 817.46 (t)
 UMC 817.49 (h)
 30 CFR 77.216-3

STATEMENTS

Monitoring Procedures:

A visual inspection of the three ponds is made each quarter to check for settlement; none has been observed during the year.

Storage Capacity:

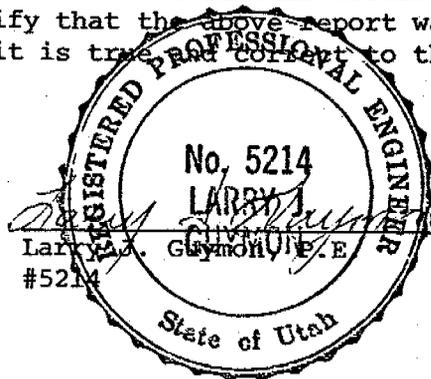
	<u>1st Quarter</u>	<u>2nd Quarter</u>	<u>3rd Quarter</u>	<u>4th Quarter</u>
SOUTH				
Capacity	37.8 Cu.Yd.	37.8 Cu.Yd.	37.8 Cu.Yd.	37.8 Cu.Yd.
Sediment	<u>0</u>	<u>0</u>	<u>10.0 Cu.Yd.</u>	<u>-</u>
Available	37.8 Cu.Yd.	37.8 Cu.Yd.	27.8 Cu.Yd.	-
CENTER				
Capacity	448.99 Cu.Yd.	448.99 Cu.Yd.	448.99 Cu.Yd.	448.99 Cu.Yd.
Sediment	<u>0</u>	<u>12.90 Cu.Yd.</u>	<u>15.00 Cu.Yd.</u>	<u>-</u>
Available	448.99 Cu.Yd.	436.09 Cu.Yd.	433.99 Cu.Yd.	-
NORTH				
Capacity	103.33 Cu.Yd.	103.33 Cu.Yd.	103.33 Cu.Yd.	103.33 Cu.Yd.
Sediment	<u>0</u>	<u>0</u>	<u>27.0</u>	<u>-</u>
Available	103.33 Cu.Yd.	103.33 Cu.Yd.	76.33 Cu.Yd.	-

Ponds were iced over during the 4th quarter inspection. The North and South Ponds were cleaned twice during the year.

General:

Visual inspections were made during each quarterly inspection to check for erosion, structural weakness or other hazardous conditions; none were observed.

I do hereby certify that I am a Registered Professional Engineer in the State of Utah holding license #5214 and do also certify that the above report was prepared by myself and that it is true and correct to the best of my knowledge.



Larry A. Guymon, P.E.
#5214

1-11-83
Date



A SAVAGE BROTHERS COMPANY

QUARTERLY ENGINEERING REPORT

WILBERG SEDIMENT PONDS

1982

Introduction

This report is submitted in compliance with Federal and State Regulations.

UMC 817.46(t)
UMC 817.49(h)
30 CFR 77.216-3

Statements

Monitoring Procedures:

A series of six (6) check points have been established, 3 on each dam. Elevations are taken each quarter to help monitor settlement. They are listed below:

<u>Point</u>	<u>Baseline</u>	<u>1st Quarter</u>	<u>2nd Quarter</u>	<u>3rd Quarter</u>	<u>4th Quarter</u>
North 1	7367.83	7367.83	7367.83	7367.83	7367.83
North 2	7366.99	7367.03	7367.03	7367.03	7367.03
North 3	7366.89	7366.89	7366.89	7366.89	7366.89
South 1	7336.97	7337.07	7337.03	7337.06	7337.06
South 2	7338.49	7338.56	7338.56	7338.56	7338.56
South 3	7339.65	7339.65	7339.65	7339.65	7339.65

No settlement of these Control Points appeared throughout the year.

Elevations:

<u>Design Depth</u>	<u>Top of Dam</u>	<u>Toe of Dam</u>
North Pond	7365.22	7346.22
South Pond	7337.00	7318.00

<u>Impounded Water</u>	<u>1st Quarter</u>	<u>2nd Quarter</u>	<u>3rd Quarter</u>	<u>4th Quarter</u>
North Pond	7358.65	No Water	No Water	No Water
South Pond	7326.75	7325.49	7326.50	No Water

Storage Capacity:

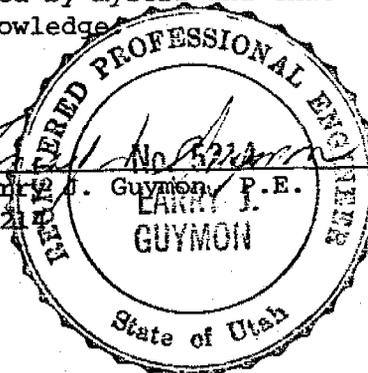
	<u>1st Quarter</u>	<u>2nd Quarter</u>	<u>3rd Quarter</u>	<u>4th Quarter</u>
NORTH POND				
Capacity	2.02 Ac.Ft.	2.02 Ac.Ft.	2.02 Ac.Ft.	2.02 Ac.Ft.
Sediment	<u>.55 Ac.Ft.</u>	<u>.71 Ac.Ft.</u>	<u>1.00 Ac.Ft.</u>	<u>0 Ac.Ft.</u>
Availability	1.47 Ac.Ft.	1.31 Ac.Ft.	1.02 Ac.Ft.	2.02 Ac.Ft.
SOUTH POND				
Capacity	1.34 Ac.Ft.	1.34 Ac.Ft.	1.34 Ac.Ft.	1.34 Ac.Ft.
Sediment	<u>.03 Ac.Ft.</u>	<u>.05 Ac.Ft.</u>	<u>.11 Ac.Ft.</u>	<u>0 Ac.Ft.</u>
Availability	1.31 Ac.Ft.	1.29 Ac.Ft.	1.23 Ac.Ft.	1.34 Ac.Ft.

General:

A visual inspection was made of the facility during each quarterly inspection for erosion or structural weakness. Some settlement was noticed of the North Dam left abutment on July 27th. Daily monitoring was conducted, no additional settlement was noticed. On August 27th a sink hole appeared on the left abutment. Maintenance work was begun immediately to by-pass the upper pond.

Engineering studies have been in process on a new design for the ponds for several months since August. On December 13th both ponds were cleaned out and the sinkhole was repaired at this time returning them to full operating capacity.

I do hereby certify that I am a Registered Professional Engineer in the State of Utah holding license #5214 and do also certify that the above report was prepared by myself and that it is true and correct to the best of my knowledge.


Larry J. Guymon, P.E.
#5214
Date 1-11-83