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& LIGHT COMPANY  
MINING DIVISION  
P.O. Box 310  
Huntington, Utah 84528

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Div.  
OIL, GAS & MINING

January 6, 1989

John Whitehead  
Permit Supervisor/Reclamation Hydrologist  
Utah Division of Oil, Gas and Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

Dear Mr. Whitehead:

Enclosed are the 1988 Quarterly Engineering Reports for the Sedimentation Structures at the Deer Creek, Wilberg and Des Bee Dove mines and the Cottonwood Exploration Site.

Sincerely,

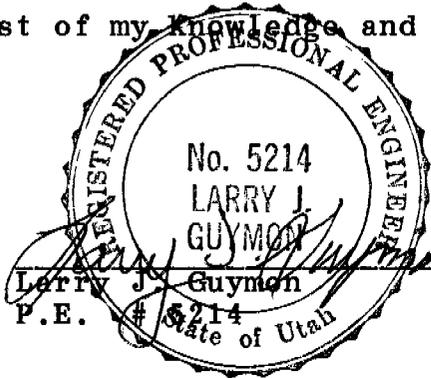


Dave Smaldone  
Director of Permitting,  
Compliance and Services

DS/do

Engineers Statement:

I do hereby certify that these 1988 Quarterly Engineering Reports for the Sedimentation Structures for the Deer Creek, Des-Bee and Wilberg Mines and the Cottonwood Exploration Site are true and correct to the best of my knowledge and belief.

  
No. 5214  
LARRY J  
GUYMON  
Larry J. Guymon  
P.E. # 5214 State of Utah  
Date 1-5-89

# Quarterly Engineering Report

## Deer Creek Sediment Pond

1988

This report is submitted as required by Federal and State regulations:

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

Design Data:	Top of Dam Elevation	7235.00
	Toe of Dam Elevation	7210.50
	Spillway Crest Elevation	7230.50
	Total Storage Capacity	12.09 AC.Ft.
	Sediment Storage Capacity	2.19 AC.Ft.
	Control Points	1 - 7236.49
		2 - 7236.56
		3 - 7236.56
		4 - 7235.98

### Operational Data:

	<u>Accumulated Sediment</u>	<u>Water Elevation</u>	<u>Control Point Elevation</u>
1st Quarter 3-24-88	Frozen	7225.76	3 - 7236.56 4 - 7235.98
2nd Quarter 7-7-88	2.10 AC.FT.	7225.90	3 - 7236.56 4 - 7235.98
3rd Quarter 10-5-88	3.5 AC.FT.	7221.56	3 - 7236.56 4 - 7235.98
4th Quarter 12-16-88	Frozen	7222.74	3 - 7236.56 4 - 7235.98

INSPECTION:

Visual inspections were made during each quarter, no stability problems or other concerns were found.

Dam control points #1 and #2 were destroyed during the clean up of coal spill on the overland conveyor.

Sediment volumes exceed that allowed by regulation. Cleaning of the pond will be done during the 1st part of the 1st Quarter 1989. Cleaning of the facility was delayed because of the construction of the new waste rock storage facility.

QUARTERLY ENGINEERING REPORT

COTTONWOOD/WILBERG MINE

1988

This report is submitted as required by Federal and State regulations:

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

NORTH POND (#1)

Design Data:	Top of Dam Elevation	7367.00
	Toe of Dam Elevation	7345.20
	Spillway Crest Elevation	7365.00
	Total Storage Capacity	2.15 AC.Ft.
	Sediment Storage Capacity	0.90 AC.Ft.
	Control Points	N-2 7367.23
		N-3 7366.88
		N-4 7366.39

Operational Data:

	<u>Accumulated Sediment</u>	<u>Water Elevation</u>	<u>Control Point Elevation</u>
3-24-88	1.3	7356.79	N-2 - 7367.23 N-3 - 7366.88 N-4 - 7366.39
2nd Quarter	1.4	7356.70	NO CHANGE
3rd Quarter	1.48	7361.39	NO CHANGE
4th Quarter	FROZEN	7361.88	NO CHANGE

SOUTH POND (#2)

Design Data:	Top of Dam Elevation	7337.00
	Toe of Dam Elevation	7317.00
	Spillway Crest Elevation	7335.00
	Total Storage Capacity	1.88
	Sediment Storage Capacity	0.30
	Control Points	S-2 7338.34
		S-3 7338.40
		S-4 7339.65

Operation Data:

	<u>Accumulated Sediment</u>	<u>Water Elevation</u>	<u>Control Point Elevation</u>
1st Quarter	0	7330.35	S-2 - 7338.34 S-3 - 7338.40 S-4 - 7339.65
2nd Quarter	0	7330.30	NO CHANGE
3rd Quarter	0	7330.30	NO CHANGE
4th Quarter	FROZEN	7330.65	NO CHANGE

Inspection:

During fourth quarter an electronic flow meter was installed on the overflow from the #2 pond. Inspections were conducted during each quarter. No structural or other physical defects were found.

QUARTERLY ENGINEERING REPORT

DES-BEE-DOVE

1988

This report is submitted as required by Federal and State regulations:

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

Design Data:	Top of Dam Elevation	6775.00
	Toe of Dam Elevation	6756.00
	Spillway Crest Elevation	6771.80
	Total Storage Capacity	19.8 AC.Ft.
	Sediment Storage Capacity	2.0 AC.Ft.
	Control Points	0+00 - 6775.20
		0+85 - 6775.00
		1+25 - 6775.20
		1+65 - 6775.40

Operation Data:

	<u>Accumulated Sediment</u>	<u>Water Elevation</u>	<u>Control Point Elevation</u>
1st Quarter	0	6761.57	No Change
2nd Quarter	0	6762.20	No Change
3rd Quarter	0	6759.57	No Change
4th Quarter	Frozen	6759.47	No Change

Inspection:

Mining operations ceased on February 6, 1987. Due to this closure sediment and water accumulation has been minimal. The facility has been inspected quarterly for structural problems or related stability problems, none were detected.

QUARTERLY ENGINEERING REPORT

COTTONWOOD SEDIMENT PONDS

1988

This report is submitted as required by Federal and State Regulations:

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

Design Data:

	<u>Sediment Capacity</u>	<u>Total Capacity</u>
North Pond	.047 AC.Ft.	.107 AC.Ft.
Center Pond	.115 AC.Ft.	.511 AC.Ft.
Total	.245 AC.Ft.	0.696 AC.Ft.

Operational Data:

Accumulated Sediment (AC. FT.)

	<u>North</u>	<u>Center</u>
1st Quarter	0	.05
2nd Quarter	.001	.05
3rd Quarter	.001	.05
4th Quarter	.001	.05

Water Elevation

	<u>North</u>	<u>Center</u>
1st Quarter	Dry	Dry
2nd Quarter	Dry	Small Amount
3rd Quarter	Dry	Dry
4th Quarter	Dry	Dry

Inspection:

Visual inspections were made during each quarter to check for structural stability. No problems were found.