

0007

015/025 #6

1998 Annual Report Review

Permittee: CO-OP Mining Co. (C.W. Mining Co.)
 Mine Name: Bear Cyn #1 and #2 Mines
 Permit Number: ACT/015/025
 Date Report Received: 3/30/99 - SLO / 4/1/99 - PEO - DOGM

Instructions: The assigned staff will review their respective portions of the Annual report and provide a written determination (findings) on how the Mine has or has not met the permit requirements for reporting. If the report is deficient or remedial action is required to obtain compliance, this should be noted and the inspector notified. Once all reviewers have completed the report, a copy will be filed in the Mine folder #6.

Assigned Reviewers: Peter Hess, Engineer/Inspector

| | Section to review | Submitted | Yes | No | Findings |
|---|---|-----------|-----|----|---|
| * | Cover sheet | * | — | — | Adequate |
| * | AVS; Legal/Financial Update | * | — | — | ON FILE at DOGM/SLO |
| * | Mine Sequence Map | * | — | — | Adequate / P.E. Cert. OK |
| | Water Monitoring Data | — | — | — | |
| | Precipitation & Climatological Data | — | — | — | |
| | Non-Coal Waste | — | — | — | |
| * | Subsidence monitoring data | * | — | — | 11/05/98 on Site Analysis Adequate / P.E. Cert by Dan Guy |
| * | Annual Impoundment Certification | * | — | — | Ponds A, B, C on 4th Qtr. File with SLO - DOGM P.E. Report Cert. OK |
| * | Annual Overburden, Spoil, Refuse, Floor, etc. | — | — | * | |
| | Vegetation data | — | — | — | |
| | Revegetation Success monitoring | — | — | — | |

ACT/015/025-#6

SEDIMENT POND "C"

| IMPOUNDMENT INSPECTION AND CERTIFIED REPORT | | Page 1 of 2 | |
|--|---|-------------------|----------|
| Permit Number | ACT\015\025 | Report Date | 12/28/98 |
| Mine Name | Bear Canyon Mine | | |
| Company Name | Co-Op Mining Company | | |
| Impoundment Identification | Impoundment Name | Sediment Pond "C" | |
| | Impoundment Number | 006A | |
| | UPDES Permit Number | UTG040006 | |
| | MSHA ID Number | N/A | |
| IMPOUNDMENT INSPECTION | | | |
| Inspection Date | 12/28/98 | | |
| Inspected By | Charles Reynolds | | |
| Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction) | Annual/Quarterly | | |
| <p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p>The pond's dam appeared sound with no signs of instability or hazardous conditions.</p> | | | |
| Required for an impoundment which functions as a SEDIMENTATION POND. | <p>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.</p> <p>Sediment storage capacity = 5,282 cubic feet 60% cleanout elevation = 7,030.3 100% sediment storage elevation = 7,031.4 Existing sediment elevation = 7,028.4</p> | | |
| | <p>3. Principle and emergency spillway elevations.</p> <p>Principle spillway elevation = 7,032.3 Emergency spillway elevation = 7,035.3</p> | | |
| <p>4. Field Information. Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.</p> <p>The pond contains 2 inches of ice. No discharge has occurred. The sediment pond was last cleaned in June, 1996.</p> | | | |
| <p>5. Field Evaluation. Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.</p> <p>The existing sediment volume is approx 845 ft³. The existing storage capacity is 14,860 ft³, which is greater than the 7,881 ft³ required in the permit.</p> | | | |
| Qualification Statement | <p>I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.</p> <p>Signature: <u>Charles Reynolds</u> Date: <u>12/28/98</u></p> | | |

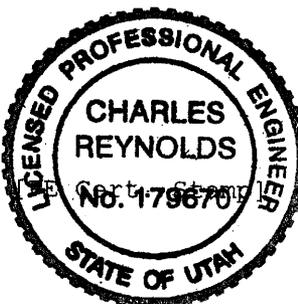
CERTIFIED REPORT

| IMPOUNDMENT EVALUATION (If NO, explain under Comments) | YES | NO |
|--|-----|----|
| 1. Is impoundment designed and constructed in accordance with the approved plan? | X | |
| 2. Is impoundment free of instability, structural weakness, or any other hazardous condition? | X | |
| 3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection? | X | |

COMMENTS AND OTHER INFORMATION

No reconstruction or modifications have been made to the sediment pond design in 1998. No cleanout or modifications to the pond are anticipated in 1999.

Certification Statement:



I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.

By: Charles Reynolds, Mining Engineer
 (Full Name and Title)

Signature: Charles Reynolds Date: 12/28/98

P.E. Number & State: 179670, Utah

ACT/015/025 #6

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|---|---|-----------------------|----------|
| IMPOUNDMENT INSPECTION AND CERTIFIED REPORT | | Page 1 of 2 | |
| Permit Number | ACT\015\025 | Report Date | 12/28/98 |
| Mine Name | Bear Canyon Mine | | |
| Company Name | Co-Op Mining Company | | |
| Impoundment Identification | Impoundment Name | Sediment Pond "A" | |
| | Impoundment Number | 002A | |
| | UPDES Permit Number | UTG040006 | |
| | MSHA ID Number | N/A | |
| IMPOUNDMENT INSPECTION | | | |
| Inspection Date | 12/28/98 | | |
| Inspected By | Charles Reynolds | | |
| Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction) | Annual/Quarterly | | |
| <p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p>The pond's dam appeared sound with no signs of instability, erosion or any other hazardous conditions.</p> | | | |
| Required for an impoundment which functions as a SEDIMENTATION POND. | <p>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.</p> <p>Sediment storage capacity = 39,500 cubic feet 60% cleanout elevation = 7,086 100% sediment storage elevation = 7,087.9 Existing sediment elevation = 7,083.4</p> | | |
| | <p>3. Principle and emergency spillway elevations.</p> <p>Principle spillway elevation = 7,088 Emergency spillway elevation = 7,094.5</p> | | |
| <p>4. Field Information. Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.</p> <p>The current water elevation is 7,085. The pond was last cleaned in August, 1997. Embankment slopes contain good vegetation. No discharge occurred in 1998.</p> | | | |
| <p>5. Field Evaluation. Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.</p> <p>The existing sediment volume is approximately 7,432 ft³. The existing storage capacity is 105,369 ft³, which is greater than the 64,951 ft³ required in the permit.</p> | | | |
| Qualification Statement | <p>I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.</p> | | |
| | Signature: <u>Charles Reynolds</u> | Date: <u>12/28/98</u> | |

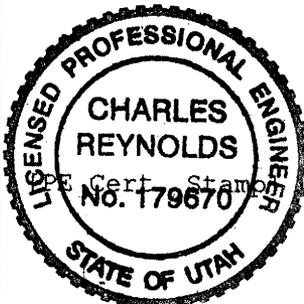
CERTIFIED REPORT

| IMPOUNDMENT EVALUATION (If NO, explain under Comments) | YES | NO |
|--|-----|----|
| 1. Is impoundment designed and constructed in accordance with the approved plan? | X | |
| 2. Is impoundment free of instability, structural weakness, or any other hazardous condition? | X | |
| 3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection? | X | |

COMMENTS AND OTHER INFORMATION

No reconstruction or modifications have been made to the sediment pond design in 1998. No cleanout of modifications to the pond are anticipated in 1999.

Certification Statement:



I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.

By: Charles Reynolds, Mining Engineer
 (Full Name and Title)

Signature: Charles Reynolds Date: 12/28/98

P.E. Number & State: 179670, Utah