

PERMIT CHANGE TRACKING FORM

DATE RECEIVED	9/8/93	PERMIT NUMBER	ACT/015/025
Title of Proposal: POND 'C' AS BUILT		PERMIT CHANGE #	93M
Description: RESPONSE TO NOV N93-35-7-3		PERMITTEE	CO-OP MINING
		MINE NAME	BEAR CANYON

	DATE DUE	DATE DONE	RESULT
<input type="checkbox"/> 15 DAY INITIAL RESPONSE TO PERMIT CHANGE APPLICATION			<input type="checkbox"/> ACCEPTED <input type="checkbox"/> REJECTED
<input type="checkbox"/> Notice of Review Status of proposed permit change sent to the Permittee.			Permit Change Classification
<input type="checkbox"/> Request additional review copies prior to Division/Other Agency review.			<input type="checkbox"/> Significant Permit Revision
<input type="checkbox"/> Notice of Approval of Publication. (If change is a Significant Revision.)			<input type="checkbox"/> Permit Amendment
<input type="checkbox"/> Notice of request to modify proposed permit change prior to approval.			<input type="checkbox"/> Incidental Boundary Change

REVIEW TRACKING	INITIAL REVIEW		MODIFIED REVIEW		FINAL REVIEW AND FINDINGS	
DOGM REVIEWER	DUE	DONE	DUE	DONE	DUE	DONE
<input type="checkbox"/> Administrative _____						
<input type="checkbox"/> Biology _____						
<input type="checkbox"/> Engineering _____						
<input type="checkbox"/> Geology _____						
<input type="checkbox"/> Soils _____						
<input checked="" type="checkbox"/> Hydrology <u>JDV</u>						
<input type="checkbox"/> Bonding _____						
<input type="checkbox"/> AVS Check _____						

COORDINATED REVIEWS	DUE	DONE	DUE	DONE	DUE	DONE
<input type="checkbox"/> OSMRE						
<input type="checkbox"/> US Forest Service						
<input type="checkbox"/> Bureau of Land Management						
<input type="checkbox"/> US Fish and Wildlife Service						
<input type="checkbox"/> US National Parks Service						
<input type="checkbox"/> UT Environmental Quality						
<input type="checkbox"/> UT Water Resources						
<input type="checkbox"/> UT Water Rights						
<input type="checkbox"/> UT Wildlife Resources						
<input type="checkbox"/> UT State History						
<input type="checkbox"/> Other						

<input type="checkbox"/> Public Notice/Comment/Hearing Complete (If the permit change is a Significant Revision)	<input type="checkbox"/> Permit Change Approval Form signed and approved effective as of this date. <input type="checkbox"/> Permit Change Denied.
<input type="checkbox"/> Copies of permit change marked and ready for MRP.	<input type="checkbox"/> Notice of <input type="checkbox"/> Approval <input type="checkbox"/> Denial to Permittee.
<input type="checkbox"/> Special Conditions/Stipulations written for approval.	<input type="checkbox"/> Copy of Approved Permit Change to File.
<input type="checkbox"/> TA and CHIA modified as required.	<input type="checkbox"/> Copy of Approved Permit Change to Permittee.
<input type="checkbox"/> Permit Change Approval Form ready for approval.	<input type="checkbox"/> Copies to Other Agencies and Price Field Office.

PERMIT AMENDMENT APPROVAL

Title: POND 'C' AS BUILT	PERMIT NUMBER: ACT/015/025
Description: RESPONSE TO NOV N93-35-7-3	PERMIT CHANGE #: 93M
	MINE: BEAR CANYON MINE
	PERMITTEE: CO-OP MINING CO

WRITTEN FINDINGS FOR PERMIT APPLICATION APPROVAL

YES, NO or N/A

1. The application is complete and accurate and the applicant has complied with all the requirements of the State Program.	
2. The proposed permit area is not within an area under study or administrative proceedings under a petition, filed pursuant to R645-103-400 or 30 CFR 769, to have an area designated as unsuitable for coal mining and reclamation operations, unless:	
A. The applicant has demonstrated that before January 4, 1977, substantial legal and financial commitments were made in relation to the operation covered by the permit application, or	
B. The applicant has demonstrated that the proposed permit area is not within an area designated as unsuitable for mining pursuant to R645-103-300 and R645-103-400 or 30 CFR 769 or subject to the prohibitions or limitations of R645-103-230.	
3. For coal mining and reclamation operations where the private mineral estate to be mined has been severed from the private surface estate, the applicant has submitted to the Division the documentation required under R645-301-114.200.	
4. The Division has made an assessment of the probable cumulative impacts of all anticipated coal mining and reclamation operations on the hydrologic balance in the cumulative impact area and has determined that the proposed operation has been designed to prevent material damage to the hydrologic balance outside the permit area.	
5. The operation would not affect the continued existence of endangered or threatened species or result in destruction or adverse modification of their critical habitats, as determined under the Endangered Species Act of 1973 (16 U.S.C. 1531 et.seq.).	
6. The Division has taken into account the effect of the proposed permitting action on properties listed on and eligible for listing on the National Register of Historic Places. This finding may be supported in part by inclusion of appropriate permit conditions or changes in the operation plan protecting historic resources, or a documented decision that the Division has determined that no additional protection measures are necessary.	
7. The Applicant has demonstrated that reclamation as required by the State Program can be accomplished according to information given in the permit application.	
8. The Applicant has demonstrated that any existing structure will comply with the applicable performance standards of R645-301 and R645-302.	
9. The Applicant has paid all reclamation fees from previous and existing coal mining and reclamation operations as required by 30 CFR Part 870.	
10. The Applicant has satisfied the applicable requirements of R645-302.	
11. The Applicant has, if applicable, satisfied the requirements for approval of a long-term, intensive agricultural postmining land use, in accordance with the requirements of R645-301-353.400.	

SPECIAL CONDITIONS OR STIPULATIONS TO THE PERMIT AMENDMENT APPROVAL

YES NO

1. Are there any variances associated with this permit amendment approval? If yes, attach.			
2. Are there any special conditions associated with this permit amendment approval? If yes, attach.			
3. Are there any stipulations associated with this permit amendment approval? If yes, attach.			

The Division hereby grants approval for Permit Amendment to the Existing Permit by incorporation of the proposed changes described herein and effective the date signed below. All other terms and conditions of the Existing Permit shall be maintained and in effect except as superseded by this Permit Amendment.

Signed _____
 Director, Division of Oil, Gas and Mining

_____ EFFECTIVE DATE

APPLICATION FOR PERMIT CHANGE

93 M

Title of Change:

Pond "C" As-built

Permit Number: AOT 015 1025

Mine: Bear Canyon #1

Permittee: Co-op Mining Co

Description, include reason for change and timing required to implement:

Pond "E" Construction Completed - Submitted also to above NOV 93-35-7-13

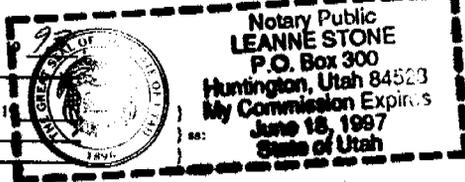
- Yes No 1. Change in the size of the Permit Area? _____ acres increase decrease.
- Yes No 2. Change in the size of the Disturbed Area? _____ acres increase decrease.
- Yes No 3. Will permit change include operations outside the Cumulative Hydrologic Impact Area?
- Yes No 4. Will permit change include operations in hydrologic basins other than currently approved?
- Yes No 5. Does permit change result from cancellation, reduction or increase of insurance or reclamation bond?
- Yes No 6. Does permit change require or include public notice publication?
- Yes No 7. Permit change as a result of a Violation? Violation # 93-35-7-13
- Yes No 8. Permit change as a result of a Division Order? D.O.#
- Yes No 9. Permit change as a result of other laws or regulations? Explain:
- Yes No 10. Does permit change require or include ownership, control, right-of-entry, or compliance information?
- Yes No 11. Does the permit change affect the surface landowner or change the post mining land use?
- Yes No 12. Does permit change require or include collection and reporting of any baseline information?
- Yes No 13. Could the permit change have any effect on wildlife or vegetation outside the current disturbed area?
- Yes No 14. Does permit change require or include soil removal, storage or placement?
- Yes No 15. Does permit change require or include vegetation monitoring, removal or revegetation activities?
- Yes No 16. Does permit change require or include construction, modification, or removal of surface facilities?
- Yes No 17. Does permit change require or include water monitoring, sediment or drainage control measures?
- Yes No 18. Does permit change require or include certified designs, maps, or calculations?
- Yes No 19. Does permit change require or include underground design or mine sequence and timing?
- Yes No 20. Does permit change require or include subsidence control or monitoring?
- Yes No 21. Have reclamation costs for bonding been provided or revised for any change in the reclamation plan?
- Yes No 22. Is permit change within 100 feet of a public road or perennial stream or 500 feet of an occupied dwelling?
- Yes No 23. Is this permit change coal exploration activity inside outside of the permit area?

Attach 3 complete copies of proposed permit change as it would be incorporated into the Mining and Reclamation Plan.

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments, undertakings, and obligations, herein.

Wendell Claver President Agent 9/8/93
Signed - Name - Position - Date

Subscribed and sworn to before me this 7th day of Sept. 1993
Leanne Stone
Notary Public



My Commission Expires: _____
Attest: STATE OF _____
COUNTY OF _____

Received by Oil, Gas & Mining

9/8/93 *pgl*

ASSIGNED PERMIT CHANGE NUMBER

CO-OP MINING COMPANY

P.O. Box 1245
Huntington, Utah 84528



(801) 381-5238
Coal Sales (801) 381-5777

93M

September 15, 1993

Pamela Grubaugh-Littig
Permit Supervisor
Utah Division of Oil, Gas & Mining
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

RECEIVED

SEP 20 1993

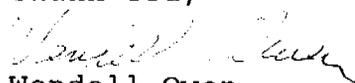
Ms. Grubaugh-Littig,

DIVISION OF
OIL, GAS & MINING

Re: Sediment Pond "C" As-Built, N93-35-7-3 part 1 or 3, Co-Op Mining Company, Bear Canyon Mine, ACT/015/025, Emery County, Utah

Upon further review of the proposal submitted on September 8, 1993, several deficiencies and discrepancies were noted. Enclosed are three copies of the submittal with the discrepancies corrected. Please replace the pages and plates submitted on September 8, 1993 with the enclosed pages.

Upon approval, finalized copies will be sent to the Division. If you have any questions, please call Charles Reynolds at (801) 381-2450.

Thank You,

Wendell Owen,
Resident Agent

WJO/sr

7.2.8.3 Sediment Pond C

The following calculations are based on the ~~proposed as-built~~ pond geometry shown on Plate 7-6. ~~Upon completion an as-built survey will be made and compared to the proposed geometry.~~

The stage-capacity data for pond C are contained in Table 7.2-14. The stage-capacity curve for pond C is presented in Appendix 7-F.

The storm runoff volume from the 10-yr 24-hr storm event is 7,881 cu ft (0.181 acre-ft). The computation of the runoff volume assumed a curve number of 90 for the disturbed areas, 100 for the pond area. ~~Assuming the pond fully contains this runoff volume,~~ the decant elevation is 7032.3 ft., ~~allowing for a water storage volume of 10,423 cu ft.~~ The 60 pct sediment clean out level is at an elevation of 7030.3 ft, 2 ft below the decant elevation. The sediment storage volume at the 60 pct clean out level is ~~10703,169~~ cu ft. The maximum sediment storage volume is ~~17825,282~~ cu ft, located at an elevation of 7031.4 ft. With an estimated annual sediment volume of 126 cu ft, ~~the sediment level would reach the 60 pct cleanout level in approximately 25 years,~~ ~~the proposed pond design will provide many years of sediment storage. This scenario is proposed since it will allow for a greater sediment storage and less frequent maintenance.~~

Table 7.2-14 Sed Pond C Stage-Capacity Data

ELEVATION (FT)	AREA (FT ²)	INCREMENTAL VOLUME (FT ³)	CUMULATIVE VOLUME (FT ³)
7,026	22		0
		120	
7,027	218		120
		399	
7,028	579		519
		815	
7,029	1,051		1,334
		1,315	
7,030	1,578		2,648
		1,736	
7,031	1,894		4,384
		2,070	
7,032	2,245		6,454
		2,411	
7,033	2,576		8,864
		2,745	
7,034	2,914		11,609
		3,096	
7,035	3,278		14,705
		1,000	
7,035.3	3,390		15,705

Computations were conducted assuming that the pond contained the maximum sediment volume. It was further assumed that the pond was full of water up to the ~~emergency~~ spillway flowline prior to the start of the design runoff event. This results in a conservative estimation of the maximum stage since, in general, the pond can be assumed to be empty to the decant elevation at the beginning of a storm event. The ~~proposed~~~~constructed~~ pond C will adequately pass the 25-yr, 6-hr peak flow.

The inlet channel to pond C was evaluated to determine size and rip-rap requirements. Using the peak discharge rate of 2.66 cfs during the 25-yr, 6-hr storm, the flow velocity was calculated to be 6.03 ft per sec. The channel will be rip-rapped with 4 in. M.D. rip-rap. Calculations for the inlet channels are presented in Appendix 7-F.

The open channel primary spillway was evaluated to determine the suitability of the existing rip-rap. Using the peak discharge rate of 2.09 cfs during the 25-yr, 6-hr storm, the flow velocity was calculated to be 4.71 ft per sec. This flow velocity is considered non-erosive and does not require rip-rap. The depth of flow is 0.09 ft. Flow velocity and rip-rap sizing calculations are presented in Appendix 7-H.

Pond C - Proposed-as-built Structure

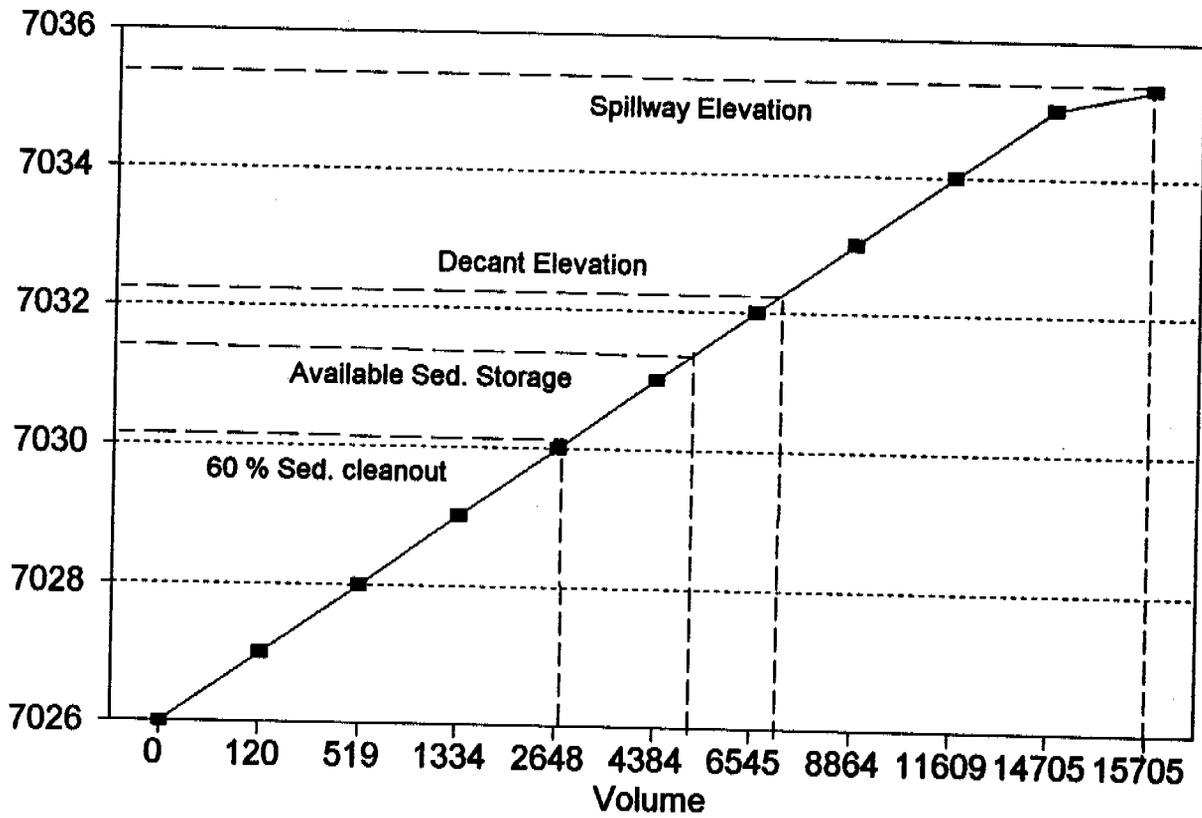
Stage - Area data

<u>Elev. (ft.)</u>	<u>Area (ft²)</u>	<u>Vol (ft³)</u>	<u>cumulative Vol. (ft³)</u>
7026	22	0	0
7027	218	120	120
7028	579	399	519
7029	1,051	815	1,334
7030	1,578	1,315	2,648
7031	1,894	1,736	4,384
7032	2,245	2,070	6,545
7033	2,576	2,411	8,864
7034	2,914	2,745	11,609
7035	3,278	3,096	14,705
7035.3	3,390	1,000	15,705

Maximum volume below the emergency spillway is 15,705 cubic feet. The required volume for the 10 year - 24 hour storm event is 8,511 cubic feet. Therefore, the structure will contain the required storm event.

POND C

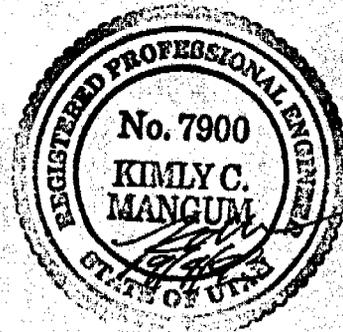
Stage - Capacity Curve



September 4, 1993

Re: Sediment Pond 'C' Construction Certification, Bear Canyon Mine, Emery County,
Utah

I have observed the referenced impoundment during constuction and upon completion of construction. Size and configuration has been verified and as-built maps have been completed for submittal. I hereby certify that this impoundment is constructed in accordance with the approved plan and R645 Rules.



CO-OP MINING COMPANY

P.O. Box 1245
Huntington, Utah 84528



(801) 381-5238
Coal Sales (801) 381-5777

December 9, 1993

Pamela Grubaugh-Littig
Permit Supervisor
Utah Division of Oil, Gas & Mining
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Ms. Grubaugh-Littig,

#2

Re: Sediment Pond "C" As-Built, Co-Op Mining Company, Bear Canyon Mine, ACT/015/025-93M, Emery County, Utah

Enclosed are three finalized copies of Plate 7-6 and pages related to the above-referenced submittal, which was approved per Division letter dated December 3, 1993.

If you have any questions, please call Charles Reynolds at (801) 381-2450.

Thank You,

Wendell Owen,
Resident Agent

Enclosure(s)

RECEIVED

DEC 9 1993

DIVISION OF
OIL, GAS & MINING



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

December 3, 1993

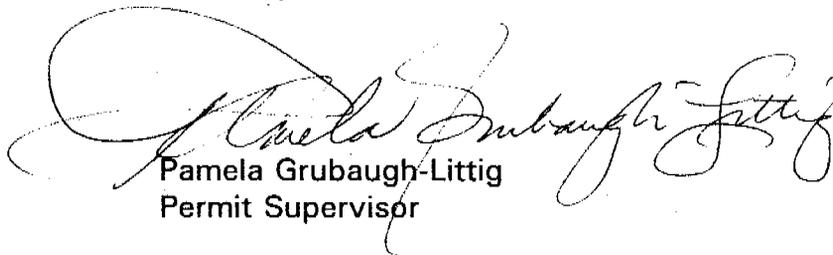
Mr. Wendell Owen
Co-Op Mining Company
P.O. Box 1245
Huntington, Utah 84528

Re: Field Verification of Sediment Pond C, Response to Violation N93-35-7-3,
Part 1 of 3, Bear Canyon Mine, Co-Op Mining Company, ACT/015/025-
93M, Folder #3, Emery County, Utah

Dear Mr. Owen:

The above-noted sediment pond drawing were field checked and approved on November 23, 1993 by Jess Kelley. The as-built drawing has been verified to be included as part of the Bear Canyon Mine PAP. Please submit three finalized copies by December 30, 1993.

Sincerely,



Pamela Grubaugh-Littig
Permit Supervisor

pgl





State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

December 1, 1993

TO: Pamela Grubaugh-Littig, Permit Supervisor
FROM: Jess Kelley, Reclamation Engineer *JK*
RE: Field Verification of As-Built Drawing of Sediment Pond C Submitted in Response to Violation N93-35-7-3, Part 1, Co-Op Mining Company, Bear Canyon Mine, ACT/015/025-93M, Folder #2, Emery County, Utah

SYNOPSIS

Violation N93-35-7-3 was issued 8/12/93. Part 1 of the violation was for failure to properly design and build sediment pond C prior to commencement of coal mining operations. To abate this violation, the permittee submitted and the Division approved Amendment 93M. The permittee submitted an as-built drawing of Sediment Pond C for Division approval on 9/29/93. This drawing is designated 'Plate 7-6 Sediment Pond "C"'.

ANALYSIS

Sediment Pond C was examined and checked against the as-built drawing on November 23, 1993 during a partial inspection. The pond now has a decant pipe, an emergency spillway, a sediment level indicator, and conforms in every other aspect to the as-built drawing as well. Part 1 of the violation can now be terminated.

RECOMMENDATIONS

It is recommended that the as-built drawing of Pond C be approved and that Part 1 of the violation be terminated.





State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

September 29, 1993

Mr. Wendell Owen
Co-Op Mining Company
P.O. Box 1245
Huntington, Utah 84528

Re: Initial Review Response--Accepted, Co-Op Mining Company, Bear Canyon Mine, ACT/015/025-93M, Folder #2, Emery County, Utah

Dear Mr. Owen:

The Division is in receipt of the proposed amendment, Sediment Pond "C" As-Built, on September 20, 1993 and has determined the application complete. This amendment has been assigned the permit change number ACT/015/025-93M.

We anticipate field verification of this pond by October 28, 1993, at which time you will be notified of amendment status.

In you have any questions or concerns, please feel free to call.

Sincerely,

Pamela Grubaugh-Littig
Permit Supervisor

ALTI



CO-OP MINING COMPANY

P.O. Box 1245
Huntington, Utah 84528



(801) 381-5238
Coal Sales (801) 381-5777

September 7, 1993

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Uta
3 7
Sal



From the desk of
Pam Grubaugh-Littig

N93-35-7-3

9/15/93

Ms.

Re

Po
30

wi
ca

Charles called to say
he found an error.

He will resubmit
info. information.

I'll abate
NOV - Tom or
Ken should
look to approve.

Susan - 9/10
These are
no-bills. Does
this abate the
NOV? Max. Pam

[Handwritten signature]

wen,
Resident Agent

WJO/sr

CO-OP MINING COMPANY

P.O. Box 1245
Huntington, Utah 84528



(801) 381-5238
Coal Sales (801) 381-5777

September 7, 1993

Pamela Grubaugh-Littig
Permit Supervisor
Utah Division of Oil, Gas & Mining
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

RECEIVED

SEP 08 1993

Ms. Grubaugh-Littig,

DIVISION OF
OIL, GAS & MINING

3/183
Re: NOV N93-35-7-1, Pond "C" As-built, Co-Op Mining Company, Bear Canyon Mine, ACT/015/025, Emery County, Utah

Enclosed are 3 copies of the certified As-builts for Sediment Pond "C". This submittal is made to meet the requirements of R645-301-514 and as abatement of violation N93-35-7-1.

Upon approval for inclusion in the mine plan, finalized copies will be sent to the Division. If you have any questions, please call Charles Reynolds at (801) 381-2450.

Thank You,

Wendell Owen,
Resident Agent

WJO/sr

7.2.8.3 Sediment Pond C

The following calculations are based on the proposed pond geometry shown in Plate 7-6. Upon completion an as-built survey will be made and compared to the proposed geometry.

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