

## PERMIT CHANGE TRACKING FORM

<b>DATE RECEIVED</b>	12/14/93	<b>PERMIT NUMBER</b>	ACT/012/025
<b>Title of Proposal:</b>		<b>PERMIT CHANGE #</b>	930
<b>Description:</b> Antifreeze Storage Tank		<b>PERMITTEE</b>	Co-Optimizing Co.
		<b>MINE NAME</b>	Bear Canyon Mine

	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 type="checkbox"/> Hydrology _____						
<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 Fixing Office

# APPLICATION FOR PERMIT CHANGE

Title of Change:

Anti Freeze Storage Tank

Permit Number: ACT 1015 1025

Mine: Bear Carbon Mine

Permittee: Co-op Mining Co.

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

*① Addition of Storage tank to supply an deicing solution to the truck loaders to prevent coal from freezing during transit*

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

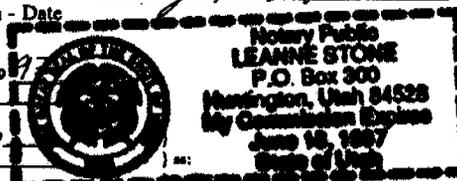
Wendell Owen Per Agent 12/14/93

Signed - Name - Position - Date

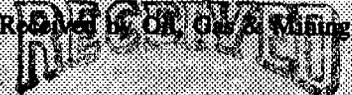
Subscribed and sworn to before me this 8 day of December, 1993

Notary Public

My Commission Expires: \_\_\_\_\_, 19\_\_\_\_  
 Attest: STATE OF \_\_\_\_\_  
 COUNTY OF \_\_\_\_\_



RECEIVED DEPT. OF OIL, GAS & MINING



DEC 14 1993

DIVISION OF  
OIL, GAS & MINING

ASSIGNED PERMIT CHANGE NUMBER



Summary of Reclamation Cost Estimate

a.	Seal Portals and Backfill	\$ 24,500.00
b.	Removal of Structures	\$ 61,316.30
c.	Soil Placement and Ripping	\$ 30,016.84
d.	Channel Restoration	\$ 50,682.23
e.	Revegetation	\$ 32,790.63
f.	Monitor Well Plugging	\$ 114.32
g.	Maintenance and Monitoring of Subsidence, Vegetation and Erosion (10 yr bond liability period)	\$ 39,143.20
h.	Hydrology Monitoring (10 yr bond liability period)	\$ 29,630.00
i.	Supervision (16.7 Weeks)	\$ 11,810.24
j.	Mobilization and Demobilization	<u>\$ 2,500.00</u>
		\$ 282,503.76
	10 pct contingency	<u>\$ 28,250.38</u>
	(1990 dollars)	\$ 310,754.14

Escalated Values

1991 - \$316,472  
 1992 - \$322,295  
 1993 - \$328,225  
 1994 - \$334,265  
 1995 - \$340,415

Escalation Factor

1.84 % (actual)  
 1.84 % (est)  
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Bond will be posted in accordance with R645-301-820.

**DRAFT**

### Water Tanks

Two tanks approx. 14 ft diam. x 10 ft high with average 3 in diam. x 1/4 in pipe top and bottom.

Cut pipes top & bottom, load on truck.

$$\text{Approx. cut length} = (2 \text{ tanks})(2 \text{ pipes})(\pi)(3 \text{ in}) = 3.1 \text{ ft}$$

020-730-0010 (Torch cutting, 1 in plate)

$$\text{Equivalent length (for 1 in plate)} = (0.25)(3.1 \text{ ft}) = 0.8 \text{ ft}$$

$$\text{Cutting Cost} = (0.923)(2.65/\text{ft})(0.8 \text{ ft}) = \$1.96$$

$$\text{Cutting Time} = 0.8 \text{ ft}/(95 \text{ ft/day}) = 0.01 \text{ days}$$

Assume each tank takes 1 hr to load.

$$\text{Labor} = (2 \text{ men})(2 \text{ hrs})(\$15.83/\text{hr}) = \$ 63.32$$

$$\text{Crane + operator} = (2 \text{ hrs})(\$78.25/\text{hr}) = \underline{\$ 156.50}$$

$$\$ 219.82$$

Time = 0.25 days

Cost Subtotal	\$ 221.78
Time Subtotal	0.26 days

### Fuel Storage, Stoker Oil, And Anti-Freeze Tanks

(2) Tanks approx. 13.5 ft diam. x 10 ft high

(1) Tank approx. 11.5 ft diam. x 23 ft high

(2) Tanks approx. 9 ft diam. x 19 ft high

(1) Tank approx. 4 ft diam. x 11 ft long

(1) Tank approx. 7 ft diam. x 7 ft high with 9.5 ft diam. x 5 ft high outer tank

(7) Tanks - Total

Similar to water tanks.

$$\text{Approx pipe cutting length} = (7 \text{ tanks})(2 \text{ pipes})(\pi)(3 \text{ in}) = 11 \text{ ft}$$

020-730-0010 (Torch Cutting, 1 in Plate)

$$\text{Equivalent length (for 1 in plate)} = 0.25(11 \text{ ft}) = 2.75 \text{ ft}$$

$$\text{Cutting Cost} = (0.923)(2.65/\text{ft})(2.75 \text{ ft}) = \$6.73$$

$$\text{Cutting Time} = 2.75 \text{ ft}/(95 \text{ ft/day}) = 0.03 \text{ days}$$

Assume each tank takes 1 hr to load.

$$\text{Labor} = (2 \text{ men})(7 \text{ tanks})(1 \text{ hr})(\$15.83/\text{hr}) = \$ 221.62$$

$$\text{Crane + operator} = (7 \text{ hrs})(\$78.25/\text{hr}) = \underline{\$ 547.75}$$

$$\$ 769.37$$

Time = 0.88 days

Cost Subtotal	\$ 776.10
Time Subtotal	0.91 days

**DRAFT**

Cost Subtotal      \$ 6,889.60  
Time Subtotal      7.03 days

Remove Structures Cost Total =                      \$ 61,316.30  
Remove Structures Time Total =                      39.26 days

**DRAFT**

## EXISTING STRUCTURES

Table 3A-1 lists each structure and construction dates. Reclamation is expected in 2012.

Table 3A-1 Existing Structures

<u>Existing Structure</u>	<u>Construction Dates</u>		<u>Photo #</u>
	<u>Starting</u>	<u>Completion</u>	
Fuel Tanks	10/83	6/84	2
Truck Loading Facility	9/82	4/83	3
Shop - Bathhouse - Warehouse	10/83	9/84	4
Added Machine Shop	11/89	12/89	5
Oil Slack Loading Facility	4/83	7/83	3
Storage & Stacking Facility	6/80	4/84	3
Coal Processing Facility	4/80	12/85	6
Non-Coal Storage Yard	3/80	9/84	7
Transformer Sub-Station	4/80	6/80	8
Conveyor Structures	3/80	6/80	3
Cross Conveyor	7/89	9/89**	9
Sales Receiving-Scale Office	6/84	10/87 (Phase I) 10/92 (Phase II)	Fig 3A-1 1
Lamp House	10/83	4/84	10
Coal Storage Bins	4/85	10/85	11
Powder Magazine	9/82	containerized	7
Lump Coal Facility	10/83	12/85	6
Electric Service Depot	Mobile Trailer		12
Water Tanks & System	8/82	11/82	13
Mine Fan	9/82	11/82	14
Lump Coal Storage Pad	8/92	10/92	15
Equipment Wash Pad	8/92	10/92	16
Shower House	under construction		17
Antifreeze Storage Tank	based upon approval		18

**DRAFT**

14. Powder Magazine. Consists of a storage shed. See Photo #7.
15. Lump Coal Facility. Consists of storage bin & loading conveyor. See Photo #6.
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19. Lump Coal Storage Pad. Consists of a concrete pad and misc. concrete retaining walls. See Photo #15
20. Equipment Wash Pad. Consists of a concrete pad with a grease and oil trap.
21. Shower House. Consists of a two story masonry block structure that houses employee showers, training classrooms and offices. See Photo #16.
22. Antifreeze Storage Tank. Consists of 2,000 gal storage tank. Antifreeze solution is used to spray truck hoppers during period of cold weather to prevent coal from freezing in transit. Tank is enclosed by a metal structure to hold entire capacity of tank in the event of a spillage.

**DRAFT**

UNDER CONSTRUCTION

Photo #17 Shower House

Based upon approval

Photo #18 Antifreeze Storage Tank

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20. Equipment Wash Pad. Consists of a concrete pad with a grease and oil trap.
21. Shower House. Consists of a two story masonry block structure that houses employee showers, training classrooms and offices. See Photo #16.
22. Antifreeze Storage Tank. Consists of 2,000 gal storage tank. Antifreeze solution is used to spray truck hoppers during period of cold weather to prevent coal from freezing in transit. Tank is enclosed by a metal structure to hold entire capacity of tank in the event of a spillage.

**DRAFT**

UNDER CONSTRUCTION

Photo #17 Shower House

Based upon approval

Photo #18 Antifreeze Storage Tank

**DRAFT**

# 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,

*Copy JAM*

Re: Antifreeze Storage Tank, Co-Op Mining Company, Bear Canyon Mine, ACT/015/025, Emery County, Utah

Enclosed are three copies of a proposal to add a storage tank for a deicing solution to our loadout to prevent coal from freezing in the truck hoppers during periods of cold temperatures. The Bear Canyon Spill Prevention Control and Countermeasures (SPCC) Plan has been updated to include the proposed tank. The SPCC Plan is available at the Bear Canyon mine site for review.

Pages and Plates have marked DRAFT to distinguish them from previously approved pages and plates. 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*  
Wendell Owen,  
Resident Agent

Enclosure(s)

RECEIVED

DEC 14 1993

DIVISION OF  
OIL, GAS & MINING