

PACIFICORP

COTTONWOOD MINE
C/015/019

File in:

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Refer to Record No. 0015, Date 033000
In C/0150019.2001 Incoming +
For additional information Confidential

DEER CREEK MINE
C/015/018

DES-BEE-DOVE MINES
C/015/017

TRAIL MOUNTAIN MINE
C/015/009



ANNUAL REPORT
2000



GENERAL INFORMATION



COTTONWOOD/WILBERG

MINE

GENERAL INFORMATION

1. Permit Number	C015/019
2. Mine Name	Cottonwood/Wilberg Mine
3. Permittee Name	PacifiCorp
4. Operator Name (if other than Permittee)	Energy West Mining Company
5. Permit Expiration Date	July 6, 2004
6. Permit Number	C/015/019
7. Company Representative, Title	Mr. Keith Sensil, Manager of Mines
8. Phone Number	(435) 687-9821
9. Fax Number	(435) 687-2695
10. E-mail Address	
11. Mailing Address	Energy West Mining Company 15 North Main Street P.O. Box 310 Huntington, Utah 84528
12. Resident Agent, Title	Mr. Charles A. Semborski
13. Mailing Address	Energy West Mining Company 15 North Main Street P.O. Box 310 Huntington, Utah 84528
14. Number of Binders Submitted	Four (4) (General Info., Vegetation, Subsidence, Hydrology)

IDENTIFICATION OF OTHER PERMITS

Identify other permits which are required in conjunction with mining and reclamation activities.

Permit Type	ID Number	Description	Expires on
1. MSHA Mine ID(s)	42-01211	Cottonwood Mine	N/A
2. MSHA Impoundment(s)	1211-UT-09-01211-02	North Sediment Pond	N/A

2000 ANNUAL REPORT		Cottonwood/Wilberg Mine	C015/019	Page 2
		1211-UT-09-01211-02	South Sediment Pond	N/A
3. NPDES/UPDES Permit(s) (water)	UT0022896	Minor Industrial		10/31/02
		Site 001: Mine Discharge, Grimes Wash		"
		Site 002: Sediment Pond, Cottonwood Cyn		"
		Site 003: Sediment Pond, Grimes Wash		"
		Site 004: Mine Discharge, Miller Cyn		"
		Site 005: Sediment Pond, Waste Rock Site		"
4. PSD (Air) Permit(s)	DAQE-694-95	Issued 8/9/95, Includes Trail Mountain		N/A
5.	DAQE-835-91	Issued 12/16/91, Waste Rock Site		N/A
6.				

CERTIFIED REPORTS

List the certified inspection reports as required by the rules and under the approved plan which must be periodically submitted to the Division. Specify whether the information is included as APPENDIX A to this Annual Report or currently ON FILE with the Division.

Certified Reports:	Reports Required?		INCLUDED or ON FILE w/DOGM?		Comments
	YES	NO	Included	ON FILE	
1. Excess Spoil Piles		X			
2. Refuse Piles	X			X	Cottonwood/Trail/DesBeeDove WRS
3. Impoundments	X		X		Sediment Ponds: 002, 003, 005
4.					
5.					

REPORTING OF OTHER TECHNICAL DATA

List other technical data and information as required under the approved plan which must be periodically submitted to the Division. Specify whether the information is included as APPENDIX B to this Annual Report or currently ON FILE with the Division.

Technical Data:	Reports Required?		INCLUDED or ON FILE w/DOGM?		Comments
	YES	NO	Included	ON FILE	
1. Climatological Data		X	X		Included in separate Hydrologic Report
2. Subsidence Monitoring Data	X		X		Included in separate Subsidence Report
3. Vegetation Monitoring Data	X		X		Included in separate Vegetation Report
4. Raptor Survey	X		X		CONFIDENTIAL!

2000 ANNUAL REPORT		Cottonwood/Wilberg Mine			C015/019	Page 3
5.	Soils Monitoring Data					
6.	Water Monitoring Data	X		X		Included in separate Hydrologic Report
	First Quarter Report	X			X	Submitted Quarterly
	Second Quarter Report	X			X	"
	Third Quarter Report	X			X	"
	Fourth Quarter Report	X			X	"
7.	Geological/Geophysical Data					
8.	Engineering Data					
9.	Other Data					

LEGAL, FINANCIAL, COMPLIANCE AND RELATED INFORMATION

Changes in administration or corporate structure can often bring about necessary changes to information found in the mining and reclamation plan. The Division is requesting that each permittee review and update the legal, financial, compliance and related information in the plan as part of the Annual Report. Provide the Department of Commerce, Annual Report of Officers, or other equivalent information as necessary to ensure that the information provided in the plan is current. Provide any other changes as necessary regarding land ownership, lease acquisitions, legal results from appeals of violations, or other changes as necessary to update information required in the mining and reclamation plan. Include any certified financial statements, audits or worksheets which may be required to meet bonding requirements. Specify whether the information is currently ON FILE with the Division or included as APPENDIX C to this Annual Report.

Legal/Financial Data:	Report Required?		INCLUDED or ON FILE w/DOGM?		Comments
	YES	NO	Included	ON FILE	
1. Department of Commerce, Annual Report of Officers	X		X		Current as of 12/31/00
2. Other					
Current NOV List	X		X		
Certificate of Liability	X			X	

MINE MAPS

Copies of mine maps, current and up-to-date through at least December 31, 1998, are to be provided to the Division as APPENDIX D to this Annual Report in accordance with the requirements of R645-301-525.270. These map copies shall be made in accordance with 30 CFR 75.1200, as required by MSHA. Upon request, mine maps shall be kept confidential by the Division.

Map Number(s)	Map Title / Description	Confidential?
None	Cottonwood Mine, 2000 Production Map	X



DEER CREEK MINE

GENERAL INFORMATION

1. Permit Number	C/015/018
2. Mine Name	Deer Creek Mine
3. Permittee Name	PacifiCorp
4. Operator Name (if other than Permittee)	Energy West Mining Company
5. Permit Expiration Date	February 7, 2006
6. Permit Number	C/015/018
7. Company Representative, Title	Mr. Keith R. Sinsel, Manager of Mines
8. Phone Number	(435) 687-9821
9. Fax Number	(435) 687-2695
10. E-mail Address	
11. Mailing Address	Energy West Mining Company 15 North Main Street P.O. Box 310 Huntington, Utah 84528
12. Resident Agent, Title	Mr. Charles A. Semborski
13. Mailing Address	Energy West Mining Company 15 North Main Street P.O. Box 310 Huntington, Utah 84528
14. Number of Binders Submitted	Four (4) (General Info., Vegetation, Subsidence, Hydrology)

IDENTIFICATION OF OTHER PERMITS

Identify other permits which are required in conjunction with mining and reclamation activities.

Permit Type	ID Number	Description	Expires on
1. MSHA Mine ID(s)	42-00121	Deer Creek Mine	N/A
2. MSHA Impoundment(s)		None	

2000 ANNUAL REPORT		Deer Creek Mine	C/015/018	Page 2
1. NPDES/UPDES Permit(s) (water)	UT-0023604	Minor Industrial		11/30/02
		Site - 001 Sediment Pond Discharge		
		Site - 002 Mine Discharge		
4. PSD (Air) Permit(s)	DAQE 926-96	Issued 10/4/96 - Mine Tipple		N/A
5.	DAQE 926-91	Issued 12/5/91 - Waste Rock Site		N/A

CERTIFIED REPORTS

List the certified inspection reports as required by the rules and under the approved plan which must be periodically submitted to the Division. Specify whether the information is included as APPENDIX A to this Annual Report or currently ON FILE with the Division.

Certified Reports:	Reports Required?		INCLUDED or ON FILE w/DOGM?		Comments
	YES	NO	Included	ON FILE	
1. Excess Spoil Piles		X			
2. Refuse Piles	X			X	Quarterly Reports
3. Impoundments	X		X		Sed. Pond/ Waste Rock Site Pond
4.					
5.					

REPORTING OF OTHER TECHNICAL DATA

List other technical data and information as required under the approved plan which must be periodically submitted to the Division. Specify whether the information is included as APPENDIX B to this Annual Report or currently ON FILE with the Division.

Technical Data:	Reports Required?		INCLUDED or ON FILE w/DOGM?		Comments
	YES	NO	Included	ON FILE	
1. Climatological Data		X	X		Included in separate Hydrologic Report
2. Subsidence Monitoring Data	X		X		Included in separate Subsidence Report
3. Vegetation Monitoring Data	X		X		Included in separate Vegetation Report
4. Raptor Survey	X		X		CONFIDENTIAL!
5. Soils Monitoring Data		X			
6. Water Monitoring Data	X		X		Included in separate Hydrologic Report
First Quarter Report	X			X	Submitted Quarterly
Second Quarter Report	X			X	“

2000 ANNUAL REPORT		Deer Creek Mine			C/015/018	Page 3
Third Quarter Report	X			X	“	
Fourth Quarter Report	X			X	“	
7. Geological/Geophysical Data		X				
8. Engineering Data		X				
9. Other Data						

LEGAL, FINANCIAL, COMPLIANCE AND RELATED INFORMATION

Changes in administration or corporate structure can often bring about necessary changes to information found in the mining and reclamation plan. The Division is requesting that each permittee review and update the legal, financial, compliance and related information in the plan as part of the Annual Report. Provide the Department of Commerce, Annual Report of Officers, or other equivalent information as necessary to ensure that the information provided in the plan is current. Provide any other changes as necessary regarding land ownership, lease acquisitions, legal results from appeals of violations, or other changes as necessary to update information required in the mining and reclamation plan. Include any certified financial statements, audits or worksheets which may be required to meet bonding requirements. Specify whether the information is currently ON FILE with the Division or included as APPENDIX C to this Annual Report.

Legal/Financial Data:	Report Required?		INCLUDED or ON FILE w/DOGM?		Comments
	YES	NO	Included	ON FILE	
1. Department of Commerce, Annual Report of Officers	X		X		Current as of December, 2000
Other					
Current NOV List	X		X		
Certificate of Liability	X			X	

MINE MAPS

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Map Number(s)	Map Title / Description	Confidential?
None	Deer Creek Mine, 2000 Production Map	X



DES BEE DOVE

MINE

GENERAL INFORMATION

1. Permit Number	C/015/017
2. Mine Name	Des Bee Dove Mine
3. Permittee Name	PacifiCorp
4. Operator Name (if other than Permittee)	Energy West Mining Company
5. Permit Expiration Date	August 30, 2005
6. Permit Number	C/015/017
7. Company Representative, Title	Mr. Keith Sensil, Manager of Mines
8. Phone Number	(435) 687-9821
9. Fax Number	(435) 687-2695
10. E-mail Address	
11. Mailing Address	Energy West Mining Company
	15 North Main Street
	P.O. Box 310
	Huntington, Utah 84528
12. Resident Agent, Title	Mr. Chuck Semborski, Geology/Permitting Supervisor
13. Mailing Address	Energy West Mining Company
	15 North Main Street
	P.O. Box 310
	Huntington, Utah 84528
14. Number of Binders Submitted	Four (4) (General Info., Vegetation, Subsidence, Hydrology)

IDENTIFICATION OF OTHER PERMITS

Identify other permits which are required in conjunction with mining and reclamation activities.

Permit Type	ID Number	Description	Expires on
1. MSHA Mine ID(s)	42-00988	Deseret Mine	N/A
	42-01393	Little Dove	N/A
	42-00082	Beehive	N/A
2. MSHA Impoundment(s)		None	

2000 ANNUAL REPORT	Des Bee Dove Mine	C/015/017	Page 2
3. NPDES/UPDES Permit(s) (water)	UTG-040022	Site 001: Sediment Pond Discharge	4/30/03
4. PSD (Air) Permit(s)		None - Mine is in cesation	
5.			
6.			

CERTIFIED REPORTS

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Certified Reports:	Reports Required?		INCLUDED or ON FILE w/DOGM?		Comments
	YES	NO	Included	ON FILE	
Excess Spoil Piles					
2. Refuse Piles	X			X	Included as part of Cottonwood/Wilberg waste rock site report.
3. Impoundments	X		X		Sediment pond
4.					
5.					

REPORTING OF OTHER TECHNICAL DATA

List other technical data and information as required under the approved plan which must be periodically submitted to the Division. Specify whether the information is included as APPENDIX B to this Annual Report or currently ON FILE with the Division.

Technical Data:	Reports Required?		INCLUDED or ON FILE w/DOGM?		Comments
	YES	NO	Included	ON FILE	
1. Climatological Data		X	X		Included in separate Hydrologic Report
2. Subsidence Monitoring Data	X		X		Included in separate Subsidence Report
3. Vegetation Monitoring Data	X		X		Included in separate Vegetation Report
4. Raptor Survey	X		X		CONFIDENTIAL!
5. Soils Monitoring Data		X			

2000 ANNUAL REPORT		Des Bee Dove Mine			C/015/017	Page 3
Water Monitoring Data	X		X		Included in separate Hydrologic Report	
First Quarter Report	X			X	Submitted Quarterly	
Second Quarter Report	X			X	“	
Third Quarter Report	X			X	“	
Fourth Quarter Report	X			X	“	
7. Geological/Geophysical Data		X				
8. Engineering Data		X				
9. Other Data						

LEGAL, FINANCIAL, COMPLIANCE AND RELATED INFORMATION

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Legal/Financial Data:	Report Required?		INCLUDED or ON FILE w/DOGM?		Comments
	YES	NO	Included	ON FILE	
1. Department of Commerce, Annual Report of Officers	X		X		Current as of 12/31/2000
2. Other					
Updated NOV List	X		X		
Certificates of Liability	X			X	



TRAIL MOUNTAIN
MINE

GENERAL INFORMATION

1. Permit Number	C/015/009
2. Mine Name	Trail Mountain Mine
3. Permittee Name	PacifiCorp
4. Operator Name (if other than Permittee)	Energy West Mining Company
5. Permit Expiration Date	February 21, 2005
6. Permit Number	C/015/009
7. Company Representative, Title	Mr. Keith Sensil, Manager of Mines
8. Phone Number	(435) 687-9821
9. Fax Number	(435) 687-2695
10. E-mail Address	
11. Mailing Address	Energy West Mining Company
	15 North Main Street
	P.O. Box 310
	Huntington, Utah 84528
12. Resident Agent, Title	Mr. Charles Semborski
13. Mailing Address	Energy West Mining Company
	15 North Main Street
	P.O. Box 310
	Huntington, Utah 84528
14. Number of Binders Submitted	Four (4) (General Info., Vegetation, Subsidence, Hydrology)

IDENTIFICATION OF OTHER PERMITS

Identify other permits which are required in conjunction with mining and reclamation activities.

Permit Type	ID Number	Description	Expires on
1. MSHA Mine ID(s)	42-01211	Trail Mountain Mine	N/A
2. MSHA Impoundment(s)		None	

2000 ANNUAL REPORT		Trail Mountain Mine		C/015/009	Page 2
3. NPDES/UPDES Permit(s) (water)	UT-0023728	Minor Industrial		11/30/02	
		Site 001: Sediment Pond			
		Site 002: Mine Discharge			
4. PSD (Air) Permit(s)	DAQE-694-95	Issued 8/9/95		N/A	
5.					
6.					

CERTIFIED REPORTS

List the certified inspection reports as required by the rules and under the approved plan which must be periodically submitted to the Division. Specify whether the information is included as APPENDIX A to this Annual Report or currently ON FILE with the Division.

Certified Reports:	Reports Required?		INCLUDED or ON FILE w/DOGM?		Comments
	YES	NO	Included	ON FILE	
1. Excess Spoil Piles		X			
2. Refuse Piles	X			X	Included as part of the Cottonwood waste rock site.
3. Impoundments	X		X		
4.					
5.					

REPORTING OF OTHER TECHNICAL DATA

List other technical data and information as required under the approved plan which must be periodically submitted to the Division. Specify whether the information is included as APPENDIX B to this Annual Report or currently ON FILE with the Division.

Technical Data:	Reports Required?		INCLUDED or ON FILE w/DOGM?		Comments
	YES	NO	Included	ON FILE	
1. Climatological Data		X	X		Included in separate Hydrologic Report
2. Subsidence Monitoring Data	X		X		Included in separate Subsidence Report
3. Vegetation Monitoring Data	X		X		Included in separate Vegetation Report
4. Raptor Survey	X		X		CONFIDENTIAL!
5. Soils Monitoring Data		X			
6. Water Monitoring Data	X		X		

2000 ANNUAL REPORT		Trail Mountain Mine			C/015/009	Page 3
First Quarter Report	X			X	Submitted Quarterly	
Second Quarter Report	X			X	“	
Third Quarter Report	X			X	“	
Fourth Quarter Report	X			X	“	
7. Geological/Geophysical Data		X				
8. Engineering Data		X				
9. Other Data						

LEGAL, FINANCIAL, COMPLIANCE AND RELATED INFORMATION

Changes in administration or corporate structure can often bring about necessary changes to information found in the mining and reclamation plan. The Division is requesting that each permittee review and update the legal, financial, compliance and related information in the plan as part of the Annual Report. Provide the Department of Commerce, Annual Report of Officers, or other equivalent information as necessary to ensure that the information provided in the plan is current. Provide any other changes as necessary regarding land ownership, lease acquisitions, legal results from appeals of violations, or other changes as necessary to update information required in the mining and reclamation plan. Include any certified financial statements, audits or worksheets which may be required to meet bonding requirements. Specify whether the information is currently ON FILE with the Division or included as APPENDIX C to this Annual Report.

Legal/Financial Data:	Report Required?		INCLUDED or ON FILE w/DOGM?		Comments
	YES	NO	Included	ON FILE	
1. Department of Commerce, Annual Report of Officers	X		X		Current as of 12/31/00
2. Other					
Updated NOV List	X		X		
Certificates of Liability	X			X	



QUARTERLY POND

INSPECTION REPORTS

Permit Number	ACT/015/019	Report Date	Mar. 20, 2000
Mine Name	Cottonwood/Wilberg		
Company Name	PacifiCorp		
Impoundment Name...	North Pond	South Pond	Waste Rock Pond
Impoundment Number.			
UPDES Permit Number		UT 0022896-003A	UT 0022896-005
MSHA ID NUMBER.....	1211-UT-09-01211-01	1211-UT-09-01211-02	

IMPOUNDMENT INSPECTION

Inspection Date	March 13, 2000		
Inspected By	Rick Cullum/ John Christensen		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	1st Quarter Inspection 2000		

1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.

North Pond: No instabilities or weaknesses observed.

South Pond: No instabilities or weaknesses observed.

Waste Rock Site Pond: No instabilities observed.

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> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:40%;"></th> <th style="width:15%; text-align: center;"><u>North Pond</u></th> <th style="width:15%; text-align: center;"><u>South Pond</u></th> <th style="width:30%; text-align: center;"><u>Waste Rock Pond</u></th> </tr> </thead> <tbody> <tr> <td>60% Design Storage Capacity</td> <td style="text-align: center;">.34 A.F. at 7351.0 ft.</td> <td style="text-align: center;">.19 A.F. at 7322.3 ft.</td> <td style="text-align: center;">1.45 A.F. at 6761.5 ft.</td> </tr> <tr> <td>100% Sediment Capacity</td> <td style="text-align: center;">.56 A.F. at 7354.83 ft.</td> <td style="text-align: center;">.32 A.F. at 7325.33 ft.</td> <td style="text-align: center;">2.42 A.F. at 6765.3 ft.</td> </tr> </tbody> </table> <p>3. Principle and emergency spillway elevations.</p>		<u>North Pond</u>	<u>South Pond</u>	<u>Waste Rock Pond</u>	60% Design Storage Capacity	.34 A.F. at 7351.0 ft.	.19 A.F. at 7322.3 ft.	1.45 A.F. at 6761.5 ft.	100% Sediment Capacity	.56 A.F. at 7354.83 ft.	.32 A.F. at 7325.33 ft.	2.42 A.F. at 6765.3 ft.
	<u>North Pond</u>	<u>South Pond</u>	<u>Waste Rock Pond</u>										
60% Design Storage Capacity	.34 A.F. at 7351.0 ft.	.19 A.F. at 7322.3 ft.	1.45 A.F. at 6761.5 ft.										
100% Sediment Capacity	.56 A.F. at 7354.83 ft.	.32 A.F. at 7325.33 ft.	2.42 A.F. at 6765.3 ft.										

	<u>North Pond</u>	<u>South Pond</u>	<u>Waste Rock Pond</u>
Principal Spillway Elevation	7354.83	7325.33	6766.3
Emergency Spillway Elevation	7363.33	7334.2	6770.0

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.

	<u>North Pond</u>	<u>South Pond</u>	<u>Waste Rock Pond</u>
Water Elevation	7356.07	7329.59	6760.47
Discharging	yes	yes	No
Inlet/Outlet Condition	Good	Good	Good
Slope conditions	Good	Good	Good

*See "Hydrologic Monitoring Data" report submitted to DOGM quarterly for monitoring information.

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.

	<u>North Pond</u>	<u>South Pond</u>	<u>Waste Rock Pond</u>
Sediment Volume	0.00 AF	0.17 AF	0.83 AF
Remaining Sediment Storage Capacity	0.56 AF	0.15 AF	1.59 AF
Water Impounded	0.65 AF	0.53 AF	0.27 AF
Changes, Comments,	Pond is functioning Normally at this time. The pond was cleaned During the 3rd quarter Of 1999	Pond is functioning normally.	Pond in functioning normally.



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.

Signature: John Christensen Date: 3/20/00
 Signature: Richard Cullen Date: 3/21/00

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

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT

Permit Number	ACT/015/019	Report Date	Mar. 20, 2000
Mine Name	Cottonwood/Wilberg		
Company Name	PacifiCorp		
Impoundment Identification	Impoundment Name	COTTONWOOD CANYON NORTH BASIN SOUTH BASIN	
	Impoundment Number		
	UPDES Permit Number	UT-0022896-002A	
	MSHA ID Number		

IMPOUNDMENT INSPECTION

Inspection Date	Mar. 15, 2000
Inspected By	Rick Cullum/ John Christensen
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	First Quarter 2000 Inspection

1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.
No unstable or structural weaknesses found.

Required for an impoundment which functions as a SEDIMENTATION POND.

2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.

	<u>North Basin</u>	<u>South Basin</u>
60% Design Storage Capacity	0.028 A.F.	0.069 A.F.
100% Sediment Capacity	0.047 A.F.	0.115 A.F.

3. Principle and emergency spillway elevations.

	<u>North Basin</u>	<u>South Basin</u>
Principle Spillway Elevation (F.A.S.L.):	7230.5	7223.6
Emergency Spillway Elevation	7230.5	7223.6

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.

	<u>North Basin</u>	<u>South Basin</u>
Water Elevation	None	None
Discharging	No	No
Inlet, Outlet Conditions	Good	Good
Outslope Conditions	Good	Good

*See "Hydrologic Monitoring Data" report submitted quarterly to DOGM for monitoring information.

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.

	<u>North Basin</u>	<u>South Basin</u>
Sediment Volume	0 A.F.	0.050 A.F.
Remaining Sediment Storage Capacity	.047 A.F.	.065 A.F.
Changes, Comments, etc.	None	None

Qualification Statement

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.

Signature: _____ Date: _____
 Signature: _____ Date: _____

CERTIFIED REPORT

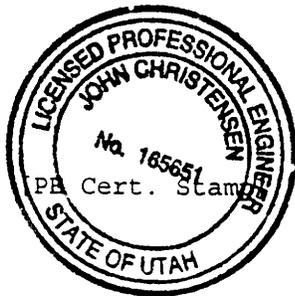
IMPOUNDMENT EVALUATION (If NO, explain under Comments)

	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

Sediment basins have a small amount of snow in the area at time of inspection.

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: John Christensen
(Full Name and Title)

Signature: [Handwritten Signature] Date: 3/20/00

P.E. Number & State: 165651 UTAH

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of 3 5
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Permit Number	ACT/015/019	Report Date	June 20, 2000
Mine Name	Cottonwood/Wilberg		
Company Name	PacifiCorp		
Impoundment Name...	North Pond	South Pond	Waste Rock Pond
Impoundment Number.			
UPDES Permit Number		UT 0022896-003A	UT 0022896-005
MSHA ID NUMBER.....	1211-UT-09-01211-01	1211-UT-09-01211-02	

IMPOUNDMENT INSPECTION

Inspection Date	June 14, 2000		
Inspected By	Rick Cullum/ John Christensen/ ED RIGGLE		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	2nd Quarter Inspection 2000		

1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.

North Pond: No instabilities or weaknesses observed.

South Pond: No instabilities or weaknesses observed.

Waste Rock Site Pond: No instabilities observed.

Required for an impoundment which functions as a SEDIMENTATION POND.	2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.												
	<table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;"></th> <th style="width:20%; text-align: center;"><u>North Pond</u></th> <th style="width:20%; text-align: center;"><u>South Pond</u></th> <th style="width:30%; text-align: center;"><u>Waste Rock Pond</u></th> </tr> </thead> <tbody> <tr> <td>60% Design Storage Capacity</td> <td style="text-align: center;">.34 A.F. at 7351.0 ft.</td> <td style="text-align: center;">.19 A.F. at 7322.3 ft.</td> <td style="text-align: center;">1.45 A.F. at 6761.5 ft.</td> </tr> <tr> <td>100% Sediment Capacity</td> <td style="text-align: center;">.56 A.F. at 7354.83 ft.</td> <td style="text-align: center;">.32 A.F. at 7325.33 ft.</td> <td style="text-align: center;">2.42 A.F. at 6765.3 ft.</td> </tr> </tbody> </table>		<u>North Pond</u>	<u>South Pond</u>	<u>Waste Rock Pond</u>	60% Design Storage Capacity	.34 A.F. at 7351.0 ft.	.19 A.F. at 7322.3 ft.	1.45 A.F. at 6761.5 ft.	100% Sediment Capacity	.56 A.F. at 7354.83 ft.	.32 A.F. at 7325.33 ft.	2.42 A.F. at 6765.3 ft.
	<u>North Pond</u>	<u>South Pond</u>	<u>Waste Rock Pond</u>										
60% Design Storage Capacity	.34 A.F. at 7351.0 ft.	.19 A.F. at 7322.3 ft.	1.45 A.F. at 6761.5 ft.										
100% Sediment Capacity	.56 A.F. at 7354.83 ft.	.32 A.F. at 7325.33 ft.	2.42 A.F. at 6765.3 ft.										

3. Principle and emergency spillway elevations.

	<u>North Pond</u>	<u>South Pond</u>	<u>Waste Rock Pond</u>
Principal Spillway Elevation	7354.83	7325.33	6766.3
Emergency Spillway Elevation	7363.33	7334.2	6770.0

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.

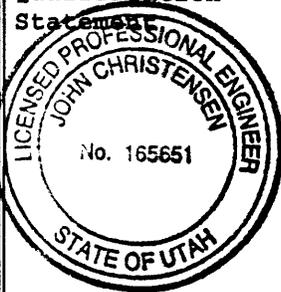
	<u>North Pond</u>	<u>South Pond</u>	<u>Waste Rock Pond</u>
Water Elevation	7356.07	7329.24	6759.67
Discharging	yes	yes	No
Inlet/Outlet Condition	Good	Good	Good
Slope conditions	Good	Good	Good

*See "Hydrologic Monitoring Data" report submitted to DOGM quarterly for monitoring information.

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.

	<u>North Pond</u>	<u>South Pond</u>	<u>Waste Rock Pond</u>
Sediment Volume	0.42 AF	0.19 AF	0.83 AF
Remaining Sediment Storage Capacity	0.14 AF	0.13 AF	1.59 AF
Water Impounded	0.23 AF	0.53 AF	0.03 AF
Changes, Comments,	Pond is functioning Normally at this time.	Pond is functioning normally.	Pond in functioning normally.

Qualification Statement



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.

Signature: John Christensen Date: 6/30/00
 Signature: Richard Cullum Date: 7-10-00

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

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of 3										
Permit Number	ACT/015/019	Report Date	June 20, 2000									
Mine Name	Cottonwood/Wilberg											
Company Name	PacifiCorp											
Impoundment Identification	Impoundment Name	COTTONWOOD CANYON NORTH BASIN SOUTH BASIN										
	Impoundment Number											
	UPDES Permit Number	UT-0022896-002A										
	MSHA ID Number											
IMPOUNDMENT INSPECTION												
Inspection Date	June 20, 2000											
Inspected By	Rick Cullum/ John Christensen											
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Second Quarter 2000 Inspection											
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p>No unstable or structural weaknesses found.</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> <table border="0"> <thead> <tr> <th></th> <th style="text-align: center;"><u>North Basin</u></th> <th style="text-align: center;"><u>South Basin</u></th> </tr> </thead> <tbody> <tr> <td>60% Design Storage Capacity</td> <td style="text-align: center;">0.028 A.F.</td> <td style="text-align: center;">0.069 A.F.</td> </tr> <tr> <td>100% Sediment Capacity</td> <td style="text-align: center;">0.047 A.F.</td> <td style="text-align: center;">0.115 A.F.</td> </tr> </tbody> </table>				<u>North Basin</u>	<u>South Basin</u>	60% Design Storage Capacity	0.028 A.F.	0.069 A.F.	100% Sediment Capacity	0.047 A.F.	0.115 A.F.
		<u>North Basin</u>	<u>South Basin</u>									
60% Design Storage Capacity	0.028 A.F.	0.069 A.F.										
100% Sediment Capacity	0.047 A.F.	0.115 A.F.										
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	<u>North Basin</u>	<u>South Basin</u>										
Principle Spillway Elevation (F.A.S.L.):	7230.5	7223.6										
Emergency Spillway Elevation	7230.5	7223.6										

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.

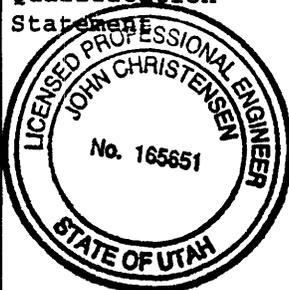
	<u>North Basin</u>	<u>South Basin</u>
Water Elevation	None	None
Discharging	No	No
Inlet, Outlet Conditions	Good	Good
Outslope Conditions	Good	Good

*See "Hydrologic Monitoring Data" report submitted quarterly to DOGM for monitoring information.

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.

	<u>North Basin</u>	<u>South Basin</u>
Sediment Volume	0 A.F.	0.050 A.F.
Remaining Sediment Storage Capacity	.047 A.F.	.065 A.F.
Changes, Comments, etc.	None	None

Qualification
Statement



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.

Signature: _____

Date: 6/30/00

Signature: Richard Cullum

Date: 7-10-00

Permit Number	ACT/015/019	Report Date	Sept. 22, 2000
Mine Name	Cottonwood/Wilberg		
Company Name	PacifiCorp		
Impoundment Name...	North Pond	South Pond	Waste Rock Pond
Impoundment Number.			
UPDES Permit Number		UT 0022896-003A	UT 0022896-005
MSHA ID NUMBER.....	1211-UT-09-01211-01	1211-UT-09-01211-02	

IMPOUNDMENT INSPECTION

Inspection Date	Sept. 11, 2000		
Inspected By	Rick Cullum/ John Christensen/ Ed Riggle		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	3rd Quarter Inspection 2000		

1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.

North Pond: No instabilities or weaknesses observed.

South Pond: No instabilities or weaknesses observed.

Waste Rock Site Pond: No instabilities observed.

Required for an impoundment which functions as a SEDIMENTATION POND.	2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.												
	<table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;"></th> <th style="width:20%; text-align: center;"><u>North Pond</u></th> <th style="width:20%; text-align: center;"><u>South Pond</u></th> <th style="width:30%; text-align: center;"><u>Waste Rock Pond</u></th> </tr> </thead> <tbody> <tr> <td>60% Design Storage Capacity</td> <td style="text-align: center;">.34 A.F. at 7351.0 ft.</td> <td style="text-align: center;">.19 A.F. at 7322.3 ft.</td> <td style="text-align: center;">1.45 A.F. at 6761.5 ft.</td> </tr> <tr> <td>100% Sediment Capacity</td> <td style="text-align: center;">.56 A.F. at 7354.83 ft.</td> <td style="text-align: center;">.32 A.F. at 7325.33 ft.</td> <td style="text-align: center;">2.42 A.F. at 6765.3 ft.</td> </tr> </tbody> </table>		<u>North Pond</u>	<u>South Pond</u>	<u>Waste Rock Pond</u>	60% Design Storage Capacity	.34 A.F. at 7351.0 ft.	.19 A.F. at 7322.3 ft.	1.45 A.F. at 6761.5 ft.	100% Sediment Capacity	.56 A.F. at 7354.83 ft.	.32 A.F. at 7325.33 ft.	2.42 A.F. at 6765.3 ft.
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100% Sediment Capacity	.56 A.F. at 7354.83 ft.	.32 A.F. at 7325.33 ft.	2.42 A.F. at 6765.3 ft.										

3. Principle and emergency spillway elevations.

	<u>North Pond</u>	<u>South Pond</u>	<u>Waste Rock Pond</u>
Principal Spillway Elevation	7354.83	7325.33	6766.3
Emergency Spillway Elevation	7363.33	7334.2	6770.0

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.

	<u>North Pond</u>	<u>South Pond</u>	<u>Waste Rock Pond</u>
Water Elevation	7357.02	7330.59	6761.57
Discharging	yes	yes	No
Inlet/Outlet Condition	Good	Good	Good
Slope conditions	Good	Good	Good

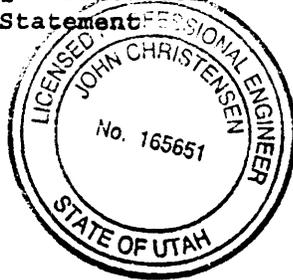
*See "Hydrologic Monitoring Data" report submitted to DOGM quarterly for monitoring information.

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.

	<u>North Pond</u>	<u>South Pond</u>	<u>Waste Rock Pond</u>
Sediment Volume	0.49 AF	0.18 AF	0.83 AF
Remaining Sediment Storage Capacity	0.07 AF	0.14 AF	1.59 AF
Water Impounded	0.26 AF	0.72 AF	0.63 AF
Changes, Comments,	Pond is functioning Normally at this time.	Pond is functioning normally.	Pond in functioning normally.

NORTH AND SOUTH PONDS ARE SCHEDULED TO BE CLEANED IN THE FOURTH QUARTER.

Qualification Statement



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.

Signature: John Christensen

Date: 10/9/00

Signature: Richard Cullen

Date: 10-16-00

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

Permit Number	ACT/015/019	Report Date	Sept. 22, 2000
Mine Name	Cottonwood/Wilberg		
Company Name	PacifiCorp		
Impoundment Identification	Impoundment Name	COTTONWOOD CANYON NORTH BASIN SOUTH BASIN	
	Impoundment Number		
	UPDES Permit Number	UT-0022896-002A	
	MSHA ID Number		

IMPOUNDMENT INSPECTION

Inspection Date	Sept. 19, 2000		
Inspected By	Rick Cullum/ John Christensen/Ed Riggle		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Third Quarter 2000 Inspection		

1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.

No unstable or structural weaknesses found.

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> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:40%;"></th> <th style="width:30%; text-align: center;"><u>North Basin</u></th> <th style="width:30%; text-align: center;"><u>South Basin</u></th> </tr> </thead> <tbody> <tr> <td>60% Design Storage Capacity</td> <td style="text-align: center;">0.028 A.F.</td> <td style="text-align: center;">0.069 A.F.</td> </tr> <tr> <td>100% Sediment Capacity</td> <td style="text-align: center;">0.047 A.F.</td> <td style="text-align: center;">0.115 A.F.</td> </tr> </tbody> </table> <p>3. Principle and emergency spillway elevations.</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:40%;"></th> <th style="width:30%; text-align: center;"><u>North Basin</u></th> <th style="width:30%; text-align: center;"><u>South Basin</u></th> </tr> </thead> <tbody> <tr> <td>Principle Spillway Elevation (F.A.S.L.):</td> <td style="text-align: center;">7230.5</td> <td style="text-align: center;">7223.6</td> </tr> <tr> <td>Emergency Spillway Elevation</td> <td style="text-align: center;">7230.5</td> <td style="text-align: center;">7223.6</td> </tr> </tbody> </table>		<u>North Basin</u>	<u>South Basin</u>	60% Design Storage Capacity	0.028 A.F.	0.069 A.F.	100% Sediment Capacity	0.047 A.F.	0.115 A.F.		<u>North Basin</u>	<u>South Basin</u>	Principle Spillway Elevation (F.A.S.L.):	7230.5	7223.6	Emergency Spillway Elevation	7230.5	7223.6
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100% Sediment Capacity	0.047 A.F.	0.115 A.F.																	
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Principle Spillway Elevation (F.A.S.L.):	7230.5	7223.6																	
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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 out slopes of embankments, etc.

	<u>North Basin</u>	<u>South Basin</u>
Water Elevation	None	7221.75
Discharging	No	No
Inlet, Outlet Conditions	Good	Good
Outslope Conditions	Good	Good

*See "Hydrologic Monitoring Data" report submitted quarterly to DOGM for monitoring information.

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.

	<u>North Basin</u>	<u>South Basin</u>
Sediment Volume	.05 A.F.	.22 A.F.
Remaining Sediment Storage Capacity	0 A.F.	0 A.F.
Changes, Comments, etc.	None	.02 A.F. WATER

BOTH BASINS ARE SCHEDULED TO BE CLEANED IN THE FIRST PART OF THE 4TH QUARTER.

Qualification Statement

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.

Signature: _____ Date: _____
 Signature: _____ Date: _____

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

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: JOHN CHRISTENSEN, SR. CONSTRUCTION ENG.
 (Full Name and Title)

Signature: *John Christensen* Date: 10/4/00

P.E. Number & State: 105651, UTAH



IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of 3
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Permit Number	ACT/015/019	Report Date	Jan 3, 2001
Mine Name	Cottonwood/Wilberg		
Company Name	PacifiCorp		
Impoundment Name...	North Pond	South Pond	Waste Rock Pond
Impoundment Number.			
UPDES Permit Number		UT 0022896-003A	UT 0022896-005
MSHA ID NUMBER.....	1211-UT-09-01211-01	1211-UT-09-01211-02	

IMPOUNDMENT INSPECTION	
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Inspection Date	Dec. 29, 2000
Inspected By	Rick Cullum/ John Christensen/ Ed Riggle
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	4th Quarter Inspection 2000

1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.

North Pond: No instabilities or weaknesses observed.

South Pond: No instabilities or weaknesses observed.

Waste Rock Site Pond: No instabilities observed.

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> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:40%;"></th> <th style="width:15%; text-align: center;"><u>North Pond</u></th> <th style="width:15%; text-align: center;"><u>South Pond</u></th> <th style="width:30%; text-align: center;"><u>Waste Rock Pond</u></th> </tr> </thead> <tbody> <tr> <td>60% Design Storage Capacity</td> <td style="text-align: center;">.34 A.F. at 7351.0 ft.</td> <td style="text-align: center;">.19 A.F. at 7322.3 ft.</td> <td style="text-align: center;">1.45 A.F. at 6761.5 ft.</td> </tr> <tr> <td>100% Sediment Capacity</td> <td style="text-align: center;">.56 A.F. at 7354.83 ft.</td> <td style="text-align: center;">.32 A.F. at 7325.33 ft.</td> <td style="text-align: center;">2.42 A.F. at 6765.3 ft.</td> </tr> </tbody> </table>		<u>North Pond</u>	<u>South Pond</u>	<u>Waste Rock Pond</u>	60% Design Storage Capacity	.34 A.F. at 7351.0 ft.	.19 A.F. at 7322.3 ft.	1.45 A.F. at 6761.5 ft.	100% Sediment Capacity	.56 A.F. at 7354.83 ft.	.32 A.F. at 7325.33 ft.	2.42 A.F. at 6765.3 ft.
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100% Sediment Capacity	.56 A.F. at 7354.83 ft.	.32 A.F. at 7325.33 ft.	2.42 A.F. at 6765.3 ft.										
	<p>3. Principle and emergency spillway elevations.</p>												

	<u>North Pond</u>	<u>South Pond</u>	<u>Waste Rock Pond</u>
Principal Spillway Elevation	7354.83	7325.33	6766.3
Emergency Spillway Elevation	7363.33	7334.2	6770.0

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.

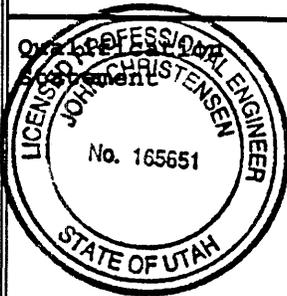
	<u>North Pond</u>	<u>South Pond</u>	<u>Waste Rock Pond</u>
Water Elevation	7358.02	7330.59	6761.77
	Top of ice	Top of ice	Top of ice
Discharging	yes	yes	No
Inlet/Outlet Condition	Good	Good	Good
Slope conditions	Good	Good	Good

*See "Hydrologic Monitoring Data" report submitted to DOGM quarterly for monitoring information.

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.

	<u>North Pond</u>	<u>South Pond</u>	<u>Waste Rock Pond</u>
Sediment Volume	0.0 AF	0.0 AF	0.83 AF
Remaining Sediment Storage Capacity	0.56 AF	0.32 AF	1.59 AF
Water Impounded	0.85 AF	0.31 AF	0.67 AF
Changes, Comments,	Pond is functioning Normally at this time.	Pond is functioning normally.	Pond in functioning normally.

NORTH AND SOUTH PONDS WERE CLEANED IN THE FOURTH QUARTER.



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.

Signature: John Christensen

Date: 1/4/01

Signature: Richard Cullum

Date: 1-8-01

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

Permit Number	ACT/015/019	Report Date	Dec. 21, 2000
Mine Name	Cottonwood/Wilberg		
Company Name	PacifiCorp		
Impoundment Identification	Impoundment Name	COTTONWOOD CANYON NORTH BASIN SOUTH BASIN	
	Impoundment Number		
	UPDES Permit Number	UT-0022896-002A	
	MSHA ID Number		

IMPOUNDMENT INSPECTION

Inspection Date	Dec. 12, 2000
Inspected By	Rick Cullum/ John Christensen/Ed Riggle
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Fourth Quarter 2000 Inspection

1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.

No unstable or structural weaknesses found.

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> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:40%;"></th> <th style="width:30%; text-align: center;"><u>North Basin</u></th> <th style="width:30%; text-align: center;"><u>South Basin</u></th> </tr> </thead> <tbody> <tr> <td>60% Design Storage Capacity</td> <td style="text-align: center;">0.028 A.F.</td> <td style="text-align: center;">0.069 A.F.</td> </tr> <tr> <td>100% Sediment Capacity</td> <td style="text-align: center;">0.047 A.F.</td> <td style="text-align: center;">0.115 A.F.</td> </tr> </tbody> </table> <p>3. Principle and emergency spillway elevations.</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:40%;"></th> <th style="width:30%; text-align: center;"><u>North Basin</u></th> <th style="width:30%; text-align: center;"><u>South Basin</u></th> </tr> </thead> <tbody> <tr> <td>Principle Spillway Elevation (F.A.S.L.):</td> <td style="text-align: center;">7230.5</td> <td style="text-align: center;">7223.6</td> </tr> <tr> <td>Emergency Spillway Elevation</td> <td style="text-align: center;">7230.5</td> <td style="text-align: center;">7223.6</td> </tr> </tbody> </table>		<u>North Basin</u>	<u>South Basin</u>	60% Design Storage Capacity	0.028 A.F.	0.069 A.F.	100% Sediment Capacity	0.047 A.F.	0.115 A.F.		<u>North Basin</u>	<u>South Basin</u>	Principle Spillway Elevation (F.A.S.L.):	7230.5	7223.6	Emergency Spillway Elevation	7230.5	7223.6
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	<u>North Basin</u>	<u>South Basin</u>																	
Principle Spillway Elevation (F.A.S.L.):	7230.5	7223.6																	
Emergency Spillway Elevation	7230.5	7223.6																	

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.

	<u>North Basin</u>	<u>South Basin</u>
Water Elevation	None	None
Discharging	No	No
Inlet, Outlet Conditions	Good	Good
Outslope Conditions	Good	Good

*See "Hydrologic Monitoring Data" report submitted quarterly to DOGM for monitoring information.

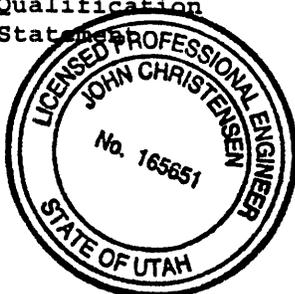
5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

	<u>North Basin</u>	<u>South Basin</u>
Sediment Volume	0 A.F.	0 A.F.
Remaining Sediment Storage Capacity	0 A.F.	0 A.F.

Changes, Comments,
etc.

BOTH BASINS WERE CLEANED IN THE THE 4TH QUARTER.

Qualification
State



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.

Signature:

Signature:

John Christensen
Richard Cullum

Date:

Date:

1/9/01
1-8-01

Permit Number	ACT/015/018	Report Date	Mar. 20, 2000
Mine Name	Deer Creek Mine		
Company Name	Energy West Mining		
Impoundment Identification	Impoundment Name	Mine Site Pond:	Waste Rock Pond:
	Impoundment Number		
	UPDES Permit Number	UT-0023604-001	
	MSHA ID Number	N/A	N/A

IMPOUNDMENT INSPECTION

Inspection Date	Mine Site: 3/15/00	Waste Rock Pond: 3/23/00
Inspected By	Rick Cullum / John Christensen	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	First Quarter 2000 Inspection	

1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.

	<u>Mine Site Pond</u>	<u>Waste Rock Pond</u>
Conditions, Comments Etc.	No hazards observed.	No hazards observed.

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> <table style="width:100%; border: none;"> <tr> <td style="width:35%;"></td> <td style="width:30%; text-align: center;"><u>Mine Site Pond:</u></td> <td style="width:35%; text-align: center;"><u>Waste Rock Pond:</u></td> </tr> <tr> <td>60% Design Storage Capacity</td> <td style="text-align: center;">1.87 A.F. at 7213.1 ft.</td> <td style="text-align: center;">.59 A.F. at 6312.7 ft.</td> </tr> <tr> <td>100% Sediment Capacity</td> <td style="text-align: center;">3.12 A.F. at 7216.0 ft.</td> <td style="text-align: center;">.98 A.F. at 6313.45 ft.</td> </tr> </table> <p>3. Principle and emergency spillway elevations.</p>		<u>Mine Site Pond:</u>	<u>Waste Rock Pond:</u>	60% Design Storage Capacity	1.87 A.F. at 7213.1 ft.	.59 A.F. at 6312.7 ft.	100% Sediment Capacity	3.12 A.F. at 7216.0 ft.	.98 A.F. at 6313.45 ft.
	<u>Mine Site Pond:</u>	<u>Waste Rock Pond:</u>								
60% Design Storage Capacity	1.87 A.F. at 7213.1 ft.	.59 A.F. at 6312.7 ft.								
100% Sediment Capacity	3.12 A.F. at 7216.0 ft.	.98 A.F. at 6313.45 ft.								

	<u>Mine Site Pond</u>	<u>Waste Rock Pond</u>
Principle Spillway Elevation (F.A.S.L.):	7218.64	6318.0
Emergency Spillway Elevation	7232.03	6318.0

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.

	<u>Mine Site Pond</u>	<u>Waste Rock Pond</u>
Water Elevation	7227.41 Top of ice	Standing water.
Discharging	Yes	Never
Inlet, Outlet, Spillway Conditions	Good	Good
Out slope Conditions	No Change	No Change

*See "Hydrologic Monitoring Data" report submitted quarterly to DOGM for monitoring information.

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.

	<u>Mine Site Pond</u>	<u>Waste Rock Pond</u>
Sediment Volume	.90 A.F.	None
Remaining Sediment Storage Capacity	2.22 A.F.	0.98 A.F.
Water impounded	8.6 A.F.	Some standing water From melted snow
Changes, Comments, etc.	No changes from previous inspection. Sediment box will be cleaned when access becomes available.	No change from previous inspection



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.

Signature: *John Christensen* Date: 3/20/00
 Signature: *Richard Cullum* Date: 3/21/00

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

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of 3 5										
Permit Number	ACT/015/018	Report Date	JUNE 20, 2000									
Mine Name	Deer Creek Mine											
Company Name	Energy West Mining											
Impoundment Identification	Impoundment Name	Mine Site Pond:	Waste Rock Pond:									
	Impoundment Number											
	UPDES Permit Number	UT-0023604-001										
	MSHA ID Number	N/A	N/A									
IMPOUNDMENT INSPECTION												
Inspection Date	Mine Site: 6/14/00	Waste Rock Pond: 6/7/00										
Inspected By	Rick Cullum / John Christensen/ Ed Riggle											
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		First Quarter 2000 Inspection										
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <table border="0" style="width: 100%;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 35%; text-align: center;"><u>Mine Site Pond</u></th> <th style="width: 35%; text-align: center;"><u>Waste Rock Pond</u></th> </tr> </thead> <tbody> <tr> <td>Conditions, Comments Etc.</td> <td style="text-align: center;">No hazards observed.</td> <td style="text-align: center;">No hazards observed.</td> </tr> </tbody> </table>					<u>Mine Site Pond</u>	<u>Waste Rock Pond</u>	Conditions, Comments Etc.	No hazards observed.	No hazards observed.			
	<u>Mine Site Pond</u>	<u>Waste Rock Pond</u>										
Conditions, Comments Etc.	No hazards observed.	No hazards observed.										
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> <table border="0" style="width: 100%;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 35%; text-align: center;"><u>Mine Site Pond:</u></th> <th style="width: 35%; text-align: center;"><u>Waste Rock Pond:</u></th> </tr> </thead> <tbody> <tr> <td>60% Design Storage Capacity</td> <td style="text-align: center;">1.87 A.F. at 7213.1 ft.</td> <td style="text-align: center;">.59 A.F. at 6312.7 ft.</td> </tr> <tr> <td>100% Sediment Capacity</td> <td style="text-align: center;">3.12 A.F. at 7216.0 ft.</td> <td style="text-align: center;">.98 A.F. at 6313.45 ft.</td> </tr> </tbody> </table>				<u>Mine Site Pond:</u>	<u>Waste Rock Pond:</u>	60% Design Storage Capacity	1.87 A.F. at 7213.1 ft.	.59 A.F. at 6312.7 ft.	100% Sediment Capacity	3.12 A.F. at 7216.0 ft.	.98 A.F. at 6313.45 ft.
		<u>Mine Site Pond:</u>	<u>Waste Rock Pond:</u>									
60% Design Storage Capacity	1.87 A.F. at 7213.1 ft.	.59 A.F. at 6312.7 ft.										
100% Sediment Capacity	3.12 A.F. at 7216.0 ft.	.98 A.F. at 6313.45 ft.										
<p>3. Principle and emergency spillway elevations.</p>												

	<u>Mine Site Pond</u>	<u>Waste Rock Pond</u>
Principle Spillway Elevation (F.A.S.L.):	7218.64	6318.0
Emergency Spillway Elevation	7232.03	6318.0

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.

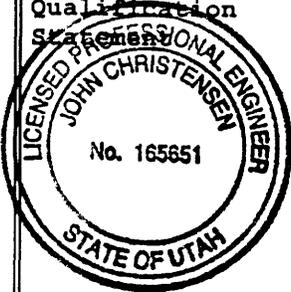
	<u>Mine Site Pond</u>	<u>Waste Rock Pond</u>
Water Elevation	7224.58	Standing water.
Discharging	Yes	Never
Inlet, Outlet, Spillway Conditions	Good	Good
Out slope Conditions	No Change	No Change

*See "Hydrologic Monitoring Data" report submitted quarterly to DOGM for monitoring information.

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.

	<u>Mine Site Pond</u>	<u>Waste Rock Pond</u>
Sediment Volume	1.06 A.F.	None
Remaining Sediment Storage Capacity	2.06 A.F.	0.98 A.F.
Water impounded	6.54 A.F.	
Changes, Comments, etc.	No changes from previous inspection.	No change from previous Inspection

Qualification Statement



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

Signature: John Christensen

Date: 6/30/00

Signature: Richard Cullen

Date: 7-10-00

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

Permit Number	ACT/015/018	Report Date	Sept. 22, 2000
Mine Name	Deer Creek Mine		
Company Name	Energy West Mining		
Impoundment Identification	Impoundment Name	Mine Site Pond:	Waste Rock Pond:
	Impoundment Number		
	UPDES Permit Number	UT-0023604-001	
	MSHA ID Number	N/A	N/A

IMPOUNDMENT INSPECTION

Inspection Date	Mine Site:9/13/00	Waste Rock Pond:9/18/00
Inspected By	Rick Cullum / John Christensen/ Ed Riggle	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Third Quarter 2000 Inspection	

1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.

	<u>Mine Site Pond</u>	<u>Waste Rock Pond</u>
Conditions, Comments Etc.	No hazards observed.	No hazards observed.

Required for an impoundment which functions as a SEDIMENTATION POND.	2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment. <table style="width:100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width:35%;"></th> <th style="width:30%; text-align: center;"><u>Mine Site Pond:</u></th> <th style="width:35%; text-align: center;"><u>Waste Rock Pond:</u></th> </tr> </thead> <tbody> <tr> <td>60% Design Storage Capacity</td> <td style="text-align: center;">1.87 A.F. at 7213.1 ft.</td> <td style="text-align: center;">.59 A.F. at 6312.7 ft.</td> </tr> <tr> <td>100% Sediment Capacity</td> <td style="text-align: center;">3.12 A.F. at 7216.0 ft.</td> <td style="text-align: center;">.98 A.F. at 6313.45 ft.</td> </tr> </tbody> </table>		<u>Mine Site Pond:</u>	<u>Waste Rock Pond:</u>	60% Design Storage Capacity	1.87 A.F. at 7213.1 ft.	.59 A.F. at 6312.7 ft.	100% Sediment Capacity	3.12 A.F. at 7216.0 ft.	.98 A.F. at 6313.45 ft.
	<u>Mine Site Pond:</u>	<u>Waste Rock Pond:</u>								
60% Design Storage Capacity	1.87 A.F. at 7213.1 ft.	.59 A.F. at 6312.7 ft.								
100% Sediment Capacity	3.12 A.F. at 7216.0 ft.	.98 A.F. at 6313.45 ft.								

3. Principle and emergency spillway elevations.

	<u>Mine Site Pond</u>	<u>Waste Rock Pond</u>
Principle Spillway Elevation (F.A.S.L.):	7218.64	6318.0
Emergency Spillway Elevation	7232.03	6318.0

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.

	<u>Mine Site Pond</u>	<u>Waste Rock Pond</u>
Water Elevation	7224.48	None
Discharging	Yes	Never
Inlet, Outlet, Spillway Conditions	Good	Good
Out slope Conditions	No Change	No Change

*See "Hydrologic Monitoring Data" report submitted quarterly to DOGM for monitoring information.

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.

	<u>Mine Site Pond</u>	<u>Waste Rock Pond</u>
Sediment Volume	1.32 A.F.	None
Remaining Sediment Storage Capacity	1.80 A.F.	0.98 A.F.
Water impounded	6.38 A.F.	None
Changes, Comments, etc.	No changes from previous inspection. Sed. Box was Cleaned last part of Aug.	No change from previous Inspection



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.

Signature: John Christensen
 Signature: Richard Culbertson

Date: 10/4/00
 Date: 10/10/00

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

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of 3 5
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Permit Number	ACT/015/018	Report Date	Dec. 21, 2000
Mine Name	Deer Creek Mine		
Company Name	Energy West Mining		
Impoundment Identification	Impoundment Name	Mine Site Pond:	Waste Rock Pond:
	Impoundment Number		
	UPDES Permit Number	UT-0023604-001	
	MSHA ID Number	N/A	N/A

IMPOUNDMENT INSPECTION

Inspection Date	Mine Site:12/14/00	Waste Rock Pond:12/14/00
Inspected By	Rick Cullum / John Christensen/ Ed Riggle	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Fourth Quarter 2000 Inspection	

1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.

	<u>Mine Site Pond</u>	<u>Waste Rock Pond</u>
Conditions, Comments Etc.	No hazards observed.	No hazards observed.

Required for an impoundment which functions as a SEDIMENTATION POND.	2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment. <table style="width:100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width:35%;"></th> <th style="width:30%; text-align: center;"><u>Mine Site Pond:</u></th> <th style="width:35%; text-align: center;"><u>Waste Rock Pond:</u></th> </tr> </thead> <tbody> <tr> <td>60% Design Storage Capacity</td> <td style="text-align: center;">1.87 A.F. at 7213.1 ft.</td> <td style="text-align: center;">.59 A.F. at 6312.7 ft.</td> </tr> <tr> <td>100% Sediment Capacity</td> <td style="text-align: center;">3.12 A.F. at 7216.0 ft.</td> <td style="text-align: center;">.98 A.F. at 6313.45 ft.</td> </tr> </tbody> </table>		<u>Mine Site Pond:</u>	<u>Waste Rock Pond:</u>	60% Design Storage Capacity	1.87 A.F. at 7213.1 ft.	.59 A.F. at 6312.7 ft.	100% Sediment Capacity	3.12 A.F. at 7216.0 ft.	.98 A.F. at 6313.45 ft.
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60% Design Storage Capacity	1.87 A.F. at 7213.1 ft.	.59 A.F. at 6312.7 ft.								
100% Sediment Capacity	3.12 A.F. at 7216.0 ft.	.98 A.F. at 6313.45 ft.								
	3. Principle and emergency spillway elevations.									

	<u>Mine Site Pond</u>	<u>Waste Rock Pond</u>
Principle Spillway Elevation (F.A.S.L.):	7218.64	6318.0
Emergency Spillway Elevation	7232.03	6318.0

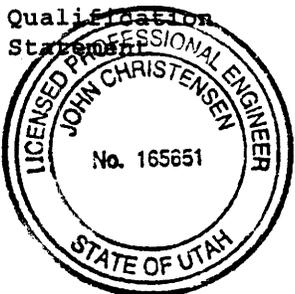
4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

	<u>Mine Site Pond</u>	<u>Waste Rock Pond</u>
Water Elevation	7224.12 Top of ice	None
Discharging	Yes	Never
Inlet, Outlet, Spillway Conditions	Good	Good
Out slope Conditions	No Change	No Change

*See "Hydrologic Monitoring Data" report submitted quarterly to DOGM for monitoring information.

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.

	<u>Mine Site Pond</u>	<u>Waste Rock Pond</u>
Sediment Volume	1.32 A.F.	None
Remaining Sediment Storage Capacity	1.80 A.F.	0.98 A.F.
Water impounded	6.23 A.F.	NONE
Changes, Comments, etc.	No changes from previous inspection.	No change from previous Inspection



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.

Signature: [Signature] Date: 1/4/01
 Signature: [Signature] Date: 1-8-01

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

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT

Permit Number	ACT/015/017	Report Date	Mar. 20, 2000
Mine Name	Des Bee Dove		
Company Name	Energy West Mining Company		
Impoundment Identification	Impoundment Name	Mine Site Pond	
	Impoundment Number		
	UPDES Permit Number	UT-0023591	
	MSHA ID Number		

IMPOUNDMENT INSPECTION

Inspection Date	3/13/00
Inspected By	Rick Cullum/John Christensen
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	First Quarter 2000 Inspection

1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.

There are no visible signs of weakness or instability.

Required for an impoundment which functions as a SEDIMENTATION POND.

2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.

60% Design
Storage Capacity 1.2 A.F. at 6756

100% Sediment
Capacity 2.0 A.F. at 6757

3. Principle and emergency spillway elevations.

Principle Spillway
Elevation (F.A.S.L.): 6757.0

Emergency Spillway
Elevation:(F.A.S.L.): 6771.8

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.

Water Elevation 6758.24
 Discharging No
 Inlet, Outlet Conditions Good
 Slope conditions Good

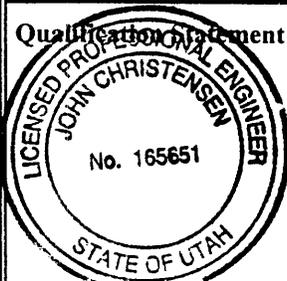
*See "Hydrologic Monitoring Data" report submitted quarterly to DOGM for monitoring information.

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.

Sediment Volume: 0.55
 Remaining Sediment Storage Capacity: 1.45
 Water Impoundment: 2.65 A.F.

Changes or Comments: Pond appears to be functioning normally at this time

Qualification Statement



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.

Signature: John Christensen Date: 3/20/00
 Signature: Richard Cullum Date: 3/21/00

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of 3 3	
Permit Number	ACT/015/017	Report Date	June. 20, 2000
Mine Name	Des Bee Dove		
Company Name	Energy West Mining Company		
Impoundment Identification	Impoundment Name	Mine Site Pond	
	Impoundment Number		
	UPDES Permit Number	UT-0023591	
	MSHA ID Number		
IMPOUNDMENT INSPECTION			
Inspection Date	6/8/00		
Inspected By	Rick Cullum/John Christensen/ Ed Riggle		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Second Quarter 2000 Inspection		
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p>There are no visible signs of weakness or instability.</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>60% Design Storage Capacity 1.2 A.F. at 6756</p> <p>100% Sediment Capacity 2.0 A.F. at 6757</p>		
	<p>3. Principle and emergency spillway elevations.</p> <p>Principle Spillway Elevation (F.A.S.L.): 6757.0</p> <p>Emergency Spillway Elevation: (F.A.S.L.): 6771.8</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.

Water Elevation 6757.29
 Discharging No
 Inlet, Outlet Conditions Good
 Slope conditions Good

*See "Hydrologic Monitoring Data" report submitted quarterly to DOGM for monitoring information.

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.

Sediment Volume: 0.59
 Remaining Sediment Storage Capacity: 1.41
 Water Impoundment: 1.61 A.F.
 Changes or Comments: Pond appears to be functioning normally at this time

Qualification Statement



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.

Signature: John Christensen Date: 6/30/00
 Signature: Richard Cullum Date: 7-10-00

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of 3 3	
Permit Number	ACT/015/017	Report Date	SEPT. 20, 2000
Mine Name	Des Bee Dove		
Company Name	Energy West Mining Company		
Impoundment Identification	Impoundment Name	Mine Site Pond	
	Impoundment Number		
	UPDES Permit Number	UT-0023591	
	MSHA ID Number		
IMPOUNDMENT INSPECTION			
Inspection Date	9/20/00		
Inspected By	Rick Cullum/John Christensen/ Ed Riggle		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Third Quarter 2000 Inspection		
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p>There are no visible signs of weakness or instability.</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>60% Design Storage Capacity 1.2 A.F. at 6756</p> <p>100% Sediment Capacity 2.0 A.F. at 6757</p>		
	<p>3. Principle and emergency spillway elevations.</p> <p>Principle Spillway Elevation (F.A.S.L.): 6757.0</p> <p>Emergency Spillway Elevation (F.A.S.L.): 6771.8</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 out slopes of embankments, etc.

Water Elevation 6757.94
 Discharging No
 Inlet, Outlet Conditions Good
 Slope conditions Good

*See "Hydrologic Monitoring Data" report submitted quarterly to DOGM for monitoring information.

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.

Sediment Volume: 1.11
 Remaining Sediment Storage Capacity: 0.89
 Water Impoundment: 1.09

A.F.

Changes or Comments: Pond appears to be functioning normally at this time



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.

Signature: John Christensen Date: 10/4/00
 Signature: Richard Cullum Date: 10/10/00

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of 3 3
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Permit Number	ACT/015/017	Report Date	Dec. 21, 2000
Mine Name	Des Bee Dove		
Company Name	Energy West Mining Company		
Impoundment Identification	Impoundment Name	Mine Site Pond	
	Impoundment Number		
	UPDES Permit Number	UT-0023591	
	MSHA ID Number		

IMPOUNDMENT INSPECTION

Inspection Date	12/12/00		
Inspected By	Rick Cullum/John Christensen/ Ed Riggle		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Fourth Quarter 2000 Inspection		

1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.

There are no visible signs of weakness or instability.

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> <table style="width:100%; border: none;"> <tr> <td style="padding-left: 20px;">60% Design Storage Capacity</td> <td style="padding-left: 100px;">1.2 A.F. at 6756</td> </tr> <tr> <td style="padding-left: 20px;">100% Sediment Capacity</td> <td style="padding-left: 100px;">2.0 A.F. at 6757</td> </tr> </table>	60% Design Storage Capacity	1.2 A.F. at 6756	100% Sediment Capacity	2.0 A.F. at 6757
60% Design Storage Capacity	1.2 A.F. at 6756				
100% Sediment Capacity	2.0 A.F. at 6757				
	<p>3. Principle and emergency spillway elevations.</p> <table style="width:100%; border: none;"> <tr> <td style="padding-left: 20px;">Principle Spillway Elevation (F.A.S.L.):</td> <td style="padding-left: 100px;">6757.0</td> </tr> <tr> <td style="padding-left: 20px;">Emergency Spillway Elevation: (F.A.S.L.):</td> <td style="padding-left: 100px;">6771.8</td> </tr> </table>	Principle Spillway Elevation (F.A.S.L.):	6757.0	Emergency Spillway Elevation: (F.A.S.L.):	6771.8
Principle Spillway Elevation (F.A.S.L.):	6757.0				
Emergency Spillway Elevation: (F.A.S.L.):	6771.8				

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.

Water Elevation 6760.54
 Discharging No
 Inlet, Outlet Conditions Good
 Slope conditions Good

*See "Hydrologic Monitoring Data" report submitted quarterly to DOGM for monitoring information.

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.

Sediment Volume: 1.11
 Remaining Sediment Storage Capacity: 0.89
 Water Impoundment: 4.59 A.F.
 Changes or Comments: Pond appears to be functioning normally at this time

Qualified Professional Engineer



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.

Signature: John Christensen

Date: 1/4/01

Signature: Richard Cullum

Date: 1-8-01

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of 3
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Permit Number	ACT/015/009	Report Date	Mar. 20, 2000
Mine Name	Trail Mountain Mine		
Company Name	Energy West Mining Company		
Impoundment Identification	Impoundment Name	Trail Mountain Mine Pond:	
	Impoundment Number		
	UPDES Permit Number	UT-G04003-001	
	MSHA ID Number	N/A	

IMPOUNDMENT INSPECTION	
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Inspection Date	Mar. 13, 2000		
Inspected By	John Christensen / Rick Cullum		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	First Quarter 2000 Inspection		

1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.

No unstable or structural weaknesses found.

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>60% Design Storage Capacity 0.282 A.F. at 7182</p> <p>100% Sediment Capacity 0.47 A.F. at 7183.6</p>
	<p>3. Principle and emergency spillway elevations.</p> <p>Principle Spillway Elevation (F.A.S.L.): 7186.6</p> <p>Emergency Spillway Elevation: (F.A.S.L.): 7194.6</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.

Water Elevation 7186.25 Top of ice
 Discharging Yes
 Inlet, Outlet Conditions Good
 Slope conditions Good

*See "Hydrologic Monitoring Data" report submitted quarterly to DOGM for monitoring information.

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. The minor erosion at the pond inlet was repaired after completion of the pond cleaning.

Sediment Volume 0.00 A.F.
 Remaining Sediment Storage Capacity 0.47 A.F.
 Water Impounded 0.70 A.F.
 Changes, comments, ect. Pond was cleaned in Oct. 99 pond was partially covered with ice.



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.

Signature: John Christensen Date: 3/20/00
 Signature: Richard Cullen Date: 3-21-00

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		

Permit Number	ACT/015/009	Report Date	June 20, 2000
Mine Name	Trail Mountain Mine		
Company Name	Energy West Mining Company		
Impoundment Identification	Impoundment Name	Trail Mountain Mine Pond:	
	Impoundment Number		
	UPDES Permit Number	UT-G04003-001	
	MSHA ID Number	N/A	

IMPOUNDMENT INSPECTION

Inspection Date	June 14, 2000		
Inspected By	John Christensen / Rick Cullum/ Ed Riggle		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Second Quarter 2000 Inspection		

1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.

No unstable or structural weaknesses found.

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>60% Design Storage Capacity 0.282 A.F. at 7182</p> <p>100% Sediment Capacity 0.47 A.F. at 7183.6</p>
	<p>3. Principle and emergency spillway elevations.</p> <p>Principle Spillway Elevation (F.A.S.L.): 7186.6</p> <p>Emergency Spillway Elevation: (F.A.S.L.): 7194.6</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.

Water Elevation 7186.10
 Discharging Yes
 Inlet, Outlet Conditions Good
 Slope conditions Good

*See "Hydrologic Monitoring Data" report submitted quarterly to DOGM for monitoring information.

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. The minor erosion at the pond inlet was repaired after completion of the pond cleaning.

Sediment Volume 0.03 A.F.
 Remaining Sediment Storage Capacity 0.44 A.F.
 Water Impounded 0.64 A.F.
 Changes, comments, etc. Pond was cleaned in Oct. 99 pond



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.

Signature: John Christensen Date: 6/30/00
 Signature: Russell Cullum Date: 7-10-00

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

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of 3 4
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Permit Number	ACT/015/009	Report Date	Sept. 22, 2000
Mine Name	Trail Mountain Mine		
Company Name	Energy West Mining Company		
Impoundment Identification	Impoundment Name	Trail Mountain Mine Pond:	
	Impoundment Number		
	UPDES Permit Number	UT-G04003-001	
	MSHA ID Number	N/A	

IMPOUNDMENT INSPECTION

Inspection Date	Sept. 20, 2000		
Inspected By	John Christensen / Rick Cullum/ Ed Riggle		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Third Quarter 2000 Inspection		

1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.

No unstable or structural weaknesses found.

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>60% Design Storage Capacity 0.282 A.F. at 7182</p> <p>100% Sediment Capacity 0.47 A.F. at 7183.6</p>
	<p>3. Principle and emergency spillway elevations.</p> <p>Principle Spillway Elevation (F.A.S.L.): 7186.6</p> <p>Emergency Spillway Elevation: (F.A.S.L.): 7194.6</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.

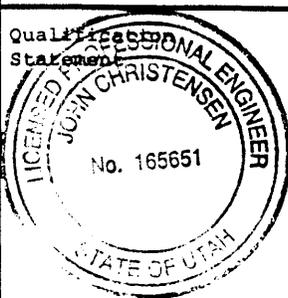
Water Elevation 7187.45
 Discharging Yes
 Inlet, Outlet Conditions Good
 Slope conditions Good

*See "Hydrologic Monitoring Data" report submitted quarterly to DOGM for monitoring information.

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.

Sediment Volume 0.12 A.F.
 Remaining Sediment Storage Capacity 0.35 A.F.
 Water Impounded 0.78 A.F.
 Changes, comments, etc. Minor erosion at the pond inlet occurred during recent storms.

Quality Assurance Statement



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.

Signature: [Signature]
 Signature: [Signature]

Date: 10/4/00
 Date: 10-10-00

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

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of 3 4
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Permit Number	ACT/015/009	Report Date	Dec. 21, 2000
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Mine Name	Trail Mountain Mine		
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Company Name	Energy West Mining Company		
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Impoundment Identification	Impoundment Name	Trail Mountain Mine Pond:	
	Impoundment Number		
	UPDES Permit Number	UT-G04003-001	
	MSHA ID Number	N/A	

IMPOUNDMENT INSPECTION			
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Inspection Date	Dec. 12, 2000		
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Inspected By	John Christensen / Rick Cullum/ Ed Riggle		
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Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Fourth Quarter 2000 Inspection		
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1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.

No unstable or structural weaknesses found.

Required for an impoundment which functions as a SEDIMENTATION POND.	2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.		
	60% Design Storage Capacity	0.282 A.F. at 7182	
	100% Sediment Capacity	0.47 A.F. at 7183.6	

	3. Principle and emergency spillway elevations.		
	Principle Spillway Elevation (F.A.S.L.):	7186.6	
	Emergency Spillway Elevation: (F.A.S.L.):	7194.6	

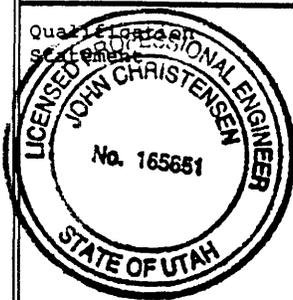
4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

Water Elevation 7189.40 Top of ice
 Discharging Yes
 Inlet, Outlet Conditions Good
 Slope conditions Good

*See "Hydrologic Monitoring Data" report submitted quarterly to DOGM for monitoring information.

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.

Sediment Volume 0.12 A.F.
 Remaining Sediment Storage Capacity 0.35 A.F.
 Water Impounded 1.0 A.F.
 Changes, comments, etc. The erosion at the pond inlet was repaired



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.

Signature: John Christensen Date: 1/4/01
 Signature: Richard Collins Date: 1-8-01

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



MSHA MONTHLY

IMPOUNDMENT INSPECTIONS

**TRAIL MOUNTAIN / COTTONWOOD MINE
42-01211**

**ANNUAL IMPOUNDMENT REPORT
JULY 1999 - JUNE 2000**

**North Impoundment: MSHA I.D. 1211-UT-09-01211-01
South Impoundment: MSHA I.D. 1211-UT-09-01211-02**

Regulation	Report Data
General Information	<p>The North and South Impoundment structures at the Cottonwood Facility meet the requirements of a MSHA Impoundment because the height of the earthen dam structure exceeds 20 feet. The impoundments have the following capacities:</p> <p>North Impoundment</p> <ul style="list-style-type: none"> • Total Capacity = 2.26 A.F. • Total Sediment Capacity = .56 A.F. • 60% Sediment Cap. = .34 A.F. (Cleaning Level) • Dam Height = 24'8" <p>South Impoundment</p> <ul style="list-style-type: none"> • Total Capacity = 2.16 A.F. • Total Sediment Capacity = .32 A.F. • 60% Sediment Cap. = .19 A.F. (Cleaning Level) • Dam Height = 22'0" <p>Inspections are done monthly, an approved variance, by the MSHA District Manager.</p>
30 CFR 77.216-4(a)(1)	There have been no geometric or structural changes to the impoundments since the June 1995 approval.
30 CFR 77.216-4(a)(2)	There are no monitoring instrumentation installed other than the South Impoundment discharge meter.
30 CFR 77.216-4(a)(3)	The water elevation of the impoundments remain constant because of the designed discharge system. The impoundments are surveyed and inspected quarterly, in addition to the required MSHA monthly inspection, to determine sediment accumulation. The impoundments are cleaned when the sediment volume reaches the 60% design capacity. (See above)

30 CFR 77.216-4(a)(4)	<p>The Storage Capacities are:</p> <p>North Impoundment</p> <ul style="list-style-type: none"> • Total Capacity - 2.26 A.F. • Total Sediment Capacity - .56 A.F. • 60% Sediment Cap. - .34 A.F. <p>South Impoundment</p> <ul style="list-style-type: none"> • Total Capacity - 2.16 A.F. • Total Sediment Capacity - .32 A.F. • 60% Sediment Cap. - .19 A.F.
30 CFR 77.216-4(a)(5)	See Response to 30 CFR 77.216-4(a)(3).
30 CFR 77.216-4(a)(6)	During the sediment cleaning of the North Impoundment, July 1999, the bentonite lining of the structure was damaged and repaired.
30 CFR 77.216-4(a)(7)	<p>I, STEVEN KOCHEVAR, BEING A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF UTAH, DO HEREBY CERTIFY THAT THE INFORMATION CONTAINED IN THIS REPORT IS TRUE AND ACCURATE, THAT ALL CONSTRUCTION, OPERATION AND MAINTENANCE DONE ON THE IMPOUNDMENTS, DURING THIS REPORTING YEAR, WAS IN ACCORDANCE WITH THE APPROVED PLAN TO THE BEST OF MY KNOWLEDGE AND BELIEF.</p> <div style="text-align: center;">  </div> <p style="text-align: right;"><i>Steven E. Kochevar</i> 12/14/00</p>



January 19, 2000

COTTONWOOD MSHA IMPOUNDMENT INSPECTIONS

NORTH IMPOUNDMENT: (MSHA I.D. 1211-UT-09-01944-01)

- ◆ Water at normal elevation.
- ◆ Sediment delta present
- ◆ Slopes and dam appear stable and unchanged.
- ◆ Dam outslope rip-rap is intact.
- ◆ MSHA I.D. sign present.

SOUTH IMPOUNDMENT: (MSHA I.D. 1211-UT-09-01944-02)

- ◆ Pond is frozen
- ◆ Estimated 35.0 gpm discharge. Discharge appears clear and free of sediment.
Flow meter not working.
- ◆ Slopes and dam appear stable and unchanged.
- ◆ Dam outslope rip-rap is intact
- ◆ MSHA I.D. sign present.
- ◆ Sediment delta starting at pond inlet and east slotted trench area.

Inspection Date: 1/19/00

Inspector: Guy Davis
Guy Davis
MSHA Qualified Impoundment Inspector / Instructor

cc: Dennis Oakley
Chuck Semborski



PO Box 310
Huntington, Utah 84528

February 23, 2000

COTTONWOOD MSHA IMPOUNDMENT INSPECTIONS

NORTH IMPOUNDMENT: (MSHA I.D. 1211-UT-09-01944-01)

- ◆ Water at normal elevation.
- ◆ Slopes and dam appear stable and unchanged.
- ◆ Dam outslope rip-rap is intact.
- ◆ Site snow covered
- ◆ MSHA I.D. sign present.

SOUTH IMPOUNDMENT: (MSHA I.D. 1211-UT-09-01944-02)

- ◆ Pond is frozen
- ◆ Estimated 10.0 gpm discharge. Discharge appears clear and free of sediment. Flow meter not working.
- ◆ Ice elevation is higher than normal . . . approximately 2' below catwalk. Increased discharge flow to estimated 50 gpm.
- ◆ Slopes and dam appear stable and unchanged.
- ◆ Dam outslope rip-rap is intact
- ◆ Site snow covered
- ◆ MSHA I.D. sign present.

Inspection Date: 2/23/00

Inspector: Guy Davis
Guy Davis

MSHA Qualified Impoundment Inspector / Instructor

cc: Dennis Oakley
Chuck Semborski

Huntington Office:
(435) 687-9821
Fax (435) 687-2695
Purchasing Fax (435) 687-9092

Deer Creek Mine:
(435) 687-2317
Fax (435) 687-2285

Trail Mountain Mine:
(435) 748-2140
Fax (435) 748-5125



March 20, 2000

COTTONWOOD MSHA IMPOUNDMENT INSPECTIONS

NORTH IMPOUNDMENT: (MSHA I.D. 1211-UT-09-01944-01)

- ◆ Water at normal elevation.
- ◆ Slopes and dam appear stable and unchanged.
- ◆ Dam outslope rip-rap is intact.
- ◆ MSHA I.D. sign present.

SOUTH IMPOUNDMENT: (MSHA I.D. 1211-UT-09-01944-02)

- ◆ Water at normal elevation
- ◆ Discharge estimated at 30.0 gpm. Discharge appears clear and free of sediment. Flow meter not working.
- ◆ Slopes and dam appear stable and unchanged.
- ◆ Dam outslope rip-rap is intact
- ◆ MSHA I.D. sign present.

Inspection Date: 3/20/00

Inspector: Guy Davis

Guy Davis

MSHA Qualified Impoundment Inspector / Instructor

cc: Dennis Oakley



April 18, 2000

COTTONWOOD MSHA IMPOUNDMENT INSPECTIONS

NORTH IMPOUNDMENT: (MSHA I.D. 1211-UT-09-01211-01)

- ◆ New or corrected I.D. number noticed
- ◆ Water at normal elevation.
- ◆ Slopes and dam appear stable and unchanged.
- ◆ Dam outslope rip-rap is intact.
- ◆ MSHA I.D. sign present . . . tape with new or corrected I.D. number is coming off

SOUTH IMPOUNDMENT: (MSHA I.D. 1211-UT-09-01211-02)

- ◆ Water at normal elevation
- ◆ Discharge estimated at 20.0 gpm. Discharge appears clear and free of sediment.
Flow meter not working.
- ◆ Slopes and dam appear stable and unchanged.
- ◆ Dam outslope rip-rap is intact
- ◆ MSHA I.D. sign present . . . tape on sign showing new or corrected I.D. number

Inspection Date: 4/18/00

Inspector: Guy Davis

Guy Davis

MSHA Qualified Impoundment Inspector / Instructor

cc: Dennis Oakley



May 16, 2000

COTTONWOOD MSHA IMPOUNDMENT INSPECTIONS

NORTH IMPOUNDMENT: (MSHA I.D. 1211-UT-09-01211-01)

- ◆ Water at normal elevation.
- ◆ Slopes and dam appear stable and unchanged.
- ◆ Dam outslope rip-rap is intact.
- ◆ MSHA I.D. sign present . . . tape with corrected I.D. number is coming off

SOUTH IMPOUNDMENT: (MSHA I.D. 1211-UT-09-01211-02)

- ◆ Water at normal elevation
- ◆ Discharge is 23 gpm. Discharge appears clear and free of sediment. Flow meter working.
- ◆ Slopes and dam appear stable and unchanged.
- ◆ Dam outslope rip-rap is intact
- ◆ MSHA I.D. sign present

Inspection Date: 5/15/00

Inspector:

Guy Davis

Guy Davis

MSHA Qualified Impoundment Inspector / Instructor

cc: Dennis Oakley



June 28, 2000

COTTONWOOD MSHA IMPOUNDMENT INSPECTIONS

NORTH IMPOUNDMENT: (MSHA I.D. 1211-UT-09-01211-01)

- ◆ Water at normal elevation.
- ◆ Slopes and dam appear stable and unchanged.
- ◆ Dam outslope rip-rap is intact.
- ◆ MSHA I.D. sign present.

SOUTH IMPOUNDMENT: (MSHA I.D. 1211-UT-09-01211-02)

- ◆ Water at normal elevation
- ◆ Discharge is 25 gpm. Discharge appears clear and free of sediment.
- ◆ Slopes and dam appear stable and unchanged.
- ◆ Dam outslope rip-rap is intact
- ◆ MSHA I.D. sign present

Inspection Date: 6/28/00

Inspector: Guy Davis
Guy Davis
MSHA Qualified Impoundment Inspector / Instructor

cc: Dennis Oakley

Huntington Office:
(801) 687-9821

Fax (801) 687-2695

Purchasing Fax (801) 687-9092

Deer Creek Mine:
(801) 381-2317

Fax (801) 381-2285

Cottonwood Mine:
(801) 748-2319

Fax (801) 748-2380

July 21, 2000

COTTONWOOD MSHA IMPOUNDMENT INSPECTIONS

NORTH IMPOUNDMENT: (MSHA I.D. 1211-UT-09-01211-01)

- ◆ Water at normal elevation.
- ◆ Sediment delta is visible
- ◆ Slopes and dam appear stable and unchanged.
- ◆ Dam outslope rip-rap is intact.
- ◆ MSHA I.D. sign present.

SOUTH IMPOUNDMENT: (MSHA I.D. 1211-UT-09-01211-02)

- ◆ Water at normal elevation
- ◆ Discharge is 11 gpm. Discharge appears clean.
- ◆ Vegetative filter at inlet looks good . . . functioning well.
- ◆ Slopes and dam appear stable and unchanged.
- ◆ Dam outslope rip-rap is intact
- ◆ MSHA I.D. sign present

Inspection Date: 7/21/00

Inspector: Guy Davis

Guy Davis

MSHA Qualified Impoundment Inspector / Instructor

cc: Dennis Oakley



August 23, 2000

COTTONWOOD MSHA IMPOUNDMENT INSPECTIONS

NORTH IMPOUNDMENT: (MSHA I.D. 1211-UT-09-01211-01)

- ◆ Water at normal elevation.
- ◆ Sediment delta is visible
- ◆ Slopes and dam appear stable and unchanged.
- ◆ Dam outslope rip-rap is intact.
- ◆ MSHA I.D. sign present. Corrected numbers have fallen off.

SOUTH IMPOUNDMENT: (MSHA I.D. 1211-UT-09-01211-02)

- ◆ Water at normal elevation
- ◆ Discharge is 11 gpm. Discharge appears clean.
- ◆ Slopes and dam appear stable and unchanged.
- ◆ Dam outslope rip-rap is intact
- ◆ MSHA I.D. sign present. Can't read the corrected numbers.

Inspection Date: 8/22/00

Inspector: Guy Davis

Guy Davis

MSHA Qualified Impoundment Inspector / Instructor

cc: Dennis Oakley



PO Box 310
Huntington, Utah 84528

September 22, 2000

COTTONWOOD MSHA IMPOUNDMENT INSPECTIONS

NORTH IMPOUNDMENT: (MSHA I.D. 1211-UT-09-01211-01)

- ◆ Water at normal elevation.
- ◆ Sediment delta is visible
- ◆ Slopes and dam appear stable and unchanged.
- ◆ Dam outslope rip-rap is intact.
- ◆ MSHA I.D. sign present. . . new numbers on sign.

SOUTH IMPOUNDMENT: (MSHA I.D. 1211-UT-09-01211-02)

- ◆ Water at normal elevation
- ◆ Discharge is 12 gpm. Discharge appears clean.
- ◆ Slopes and dam appear stable and unchanged.
- ◆ Dam outslope rip-rap is intact
- ◆ MSHA I.D. sign present. . . new numbers on sign.

Inspection Date: 9/22/00

Inspector:

Guy Davis
Guy Davis

MSHA Qualified Impoundment Inspector / Instructor

cc: Dennis Oakley

Huntington Office:
(435) 687-9821
Fax (435) 687-2695
Purchasing Fax (435) 687-9092

Deer Creek Mine:
(435) 687-2317
Fax (435) 687-2285

Trail Mountain Mine:
(435) 748-2140
Fax (435) 748-5125



October 30, 2000

COTTONWOOD MSHA IMPOUNDMENT INSPECTIONS

NORTH IMPOUNDMENT: (MSHA I.D. 1211-UT-09-01211-01)

- ◆ Water at normal elevation.
- ◆ Sediment delta is visible
- ◆ Slopes and dam appear stable and unchanged.
- ◆ Dam outslope rip-rap is intact.
- ◆ MSHA I.D. sign present.

SOUTH IMPOUNDMENT: (MSHA I.D. 1211-UT-09-01211-02)

- ◆ Water elevation is above the catwalk
- ◆ Discharge is 15 gpm. Discharge appears clean. Valve is 100% open.
- ◆ Slopes and dam appear stable and unchanged.
- ◆ Dam outslope rip-rap is intact
- ◆ MSHA I.D. sign present.

Inspection Date: 10/30/00

Inspector: Guy Davis
Guy Davis
MSHA Qualified Impoundment Inspector / Instructor

cc: Dennis Oakley



November 20, 2000

COTTONWOOD MSHA IMPOUNDMENT INSPECTIONS

NORTH IMPOUNDMENT: (MSHA I.D. 1211-UT-09-01211-01)

- ◆ Water at normal elevation.
- ◆ Sediment delta is visible
- ◆ Slopes and dam appear stable and unchanged.
- ◆ Dam outslope rip-rap is intact. . . appears that some bypass water has been discharged down the riprap but no physical damage to the slope is evident.
- ◆ MSHA I.D. sign present.

SOUTH IMPOUNDMENT: (MSHA I.D. 1211-UT-09-01211-02)

- ◆ Water elevation appears slightly below normal. Discharge rate is being controlled by hoses until the valve can be repaired.
- ◆ Slopes and dam appear stable and unchanged.
- ◆ Dam outslope rip-rap is intact
- ◆ MSHA I.D. sign present.

Inspection Date: 11/20/00

Inspector: Guy Davis
Guy Davis
MSHA Qualified Impoundment Inspector / Instructor

cc: Dennis Oakley



December 20, 2000

COTTONWOOD MSHA IMPOUNDMENT INSPECTIONS

NORTH IMPOUNDMENT: (MSHA I.D. 1211-UT-09-01211-01)

- ◆ Pond filling up following sediment cleaning. . . no discharge.
- ◆ Slopes and dam appear stable. Area of dam used for sediment removal and transport is being compacted and repaired.
- ◆ Dam outslope rip-rap is intact.
- ◆ MSHA I.D. sign present.

SOUTH IMPOUNDMENT: (MSHA I.D. 1211-UT-09-01211-02)

- ◆ Water elevation being lowered for scheduled sediment cleaning.
- ◆ Slopes and dam appear stable and unchanged.
- ◆ Dam outslope rip-rap is intact
- ◆ MSHA I.D. sign present.

Inspection Date: 12/20/00

Inspector: Guy Davis
Guy Davis
MSHA Qualified Impoundment Inspector / Instructor

cc: Dennis Oakley

APPENDIX A

CERTIFIED REPORTS

EXCESS SPOIL PILES
REFUSE PILES
IMPOUNDMENTS

AS REQUIRED UNDER R645-301-514



HYDROLOGIC MONITORING LOCATIONS

PACIFIC CORP

ENERGY WEST MINING COMPANY
HYDROLOGIC MONITORING PROGRAM

DEER CREEK/COTTONWOOD-WILBERG/DES-BEE-DOVE/TRAIL MOUNTAIN MINES

SURFACE HYDROLOGY - OPERATIONAL SAMPLING (Table 1)

Drainage System	Drainage	Location	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Cottonwood Creek	Cottonwood Canyon	SW1	Flow	Flow	Operational									
		SW2	Flow	Flow	Operational									
		CCC01	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Flow
Grimes Wash	Grimes Wash	SW3	Flow	Flow	Operational									
		GWR01	Flow	Flow	Operational									
		GWR02	Flow	Flow	Operational									
Straight Canyon	Straight Canyon	GWR03	Flow	Flow	Operational									
		T-19	Flow	Flow	Operational									

Deer Creek	Deer Creek	DCR01	Flow	Flow	Operational									
		DCR04	Flow	Flow	Operational									
		DCR06	Flow	Flow	Operational									
Huntington Creek	Huntington Creek	HCC01	Flow*	Flow*	Operational*									
		HCC02	Flow*	Flow*	Operational*									
		HCC04	Flow*	Flow*	Operational*									

* Flow in Huntington Creek is measured @ HCC01 by Utah Power, and will be reported in the Annual Hydrologic Report

Meetinghouse Canyon	Meetinghouse Canyon	MCH01	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational		
		Rilda Canyon	Rilda Canyon	RCF1*	Flow	Flow	Operational									
				RCLF1	Flow	Flow	Field									
				RCLF2	Flow	Flow	Field									
RCF2	Flow			Flow	Field	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field		
Mill Fork Canyon	Mill Fork Canyon	RCF3	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational		
		RCW4	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational		
MFA01	MFA01	MFA01	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline		
		MFB02	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline		

* Baseline flow will be measured adjacent to EM-163

Mill Fork Canyon Baseline Sampling Will Be Conducted From 4th Quarter 1998 Through 4th Quarter 2000

INCORPORATED
JUN 17 1999
UTAH DIVISION OIL, GAS AND MINING

PACIFICORP

**ENERGY WEST MINING COMPANY
HYDROLOGIC MONITORING PROGRAM**

DEER CREEK/COTTONWOOD-WILBERG/DES-BEE-DOVE/TRAIL MOUNTAIN MINES

GROUNDWATER HYDROLOGY - OPERATIONAL SAMPLING (Table 2)

Groundwater Type

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Springs												
<i>East Mountain</i>												
<i>East Mountain-Rilda Canyon</i>	Flow	Flow	Operational									
<i>Trail Mountain</i>												
<i>Recession Springs</i>												
<i>Cottonwood</i>												
<i>Deer Creek</i>												
<i>Trail Mountain</i>												
<i>Oliphant</i>												
In-Mine												
<i>Cottonwood Waste Rock Well</i>	Level	Level	Operational									
<i>Cottonwood Canyon Wells</i>												
<i>(includes Straight Canyon TM-3)</i>												
<i>Deer Creek Waste Rock Well</i>												
<i>Deer Creek In-Mine Well</i>												
<i>Rilda Canyon Wells</i>	Level	Level	Operational									
<i>Trail Mountain (TM-1B)</i>	Level	Level	Operational									
Wells												
<i>WMD01</i>	Operational											
<i>Miller</i>	Operational											
<i>DCD</i>	Operational											
<i>TMD</i>	Operational											
Sediment Pond												
Discharge												
<i>3 Outfalls</i>	Operational											
<i>1 Outfall</i>	Operational											
<i>1 Outfall</i>	Operational											
<i>1 Outfall</i>	Operational											

UTAH DIVISION OF OIL, GAS AND MINING

UPDES SAMPLING - (Table 1)

JUN 17 1993

Cottonwood
Mine Water
Discharge

PACIFICORP
ENERGY WEST MINING COMPANY
HYDROLOGIC MONITORING PROGRAM
DEER CREEK/COTTONWOOD-WILBERG/DES-BEE-DOVE/TRAIL MOUNTAIN MINES

SURFACE HYDROLOGY - BASELINE SAMPLING (Table 1) - 2001

Drainage System	Drainage Location	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Cottonwood Creek	SW1	Flow	Flow	Baseline									
	SW2	Flow	Flow	Baseline									
	CCC01	Flow	Flow	Field									
Grimes Wash	SW3	Flow	Flow	Baseline									
	GWR01	Flow	Flow	Baseline									
	GWR02	Flow	Flow	Baseline									
Straight Canyon	GWR03	Flow	Flow	Baseline									
	T-19	Flow	Flow	Baseline									

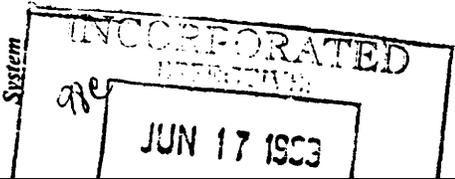
Deer Creek	DCR01	Flow	Flow	Baseline									
	DCR04	Flow	Flow	Baseline									
	DCR06	Flow	Flow	Baseline									
Huntington Creek	HCC01	Flow *	Flow *	Baseline*									
	HCC02	Flow *	Flow *	Baseline*									
	HCC04	Flow *	Flow *	Baseline*									

* Flow in Huntington Creek is measured @ HCC01 by Utah Power, and will be reported in the Annual Hydrologic Report

Meetinghouse Canyon	MCH01	Flow	Flow	Baseline									
	RCF1*	Flow	Flow	Baseline									
Rilda Canyon	RCLF1	Flow	Flow	Field									
	RCLF2	Flow	Flow	Field									
	RCF2	Flow	Flow	Field									
	RCF3	Flow	Flow	Field									
Mill Fork Canyon	RCW4	Flow	Flow	Baseline									
	MFA01	Flow	Flow	Baseline									
Mill Fork Canyon	MFB02	Flow	Flow	Baseline									
	MFB03	Flow	Flow	Baseline									

* Baseline flow will be measured adjacent to EM-163

Huntington
Drainage
System



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ENERGY WEST MINING COMPANY
HYDROLOGIC MONITORING PROGRAM
DEER CREEK/COTTONWOOD-WILBERG/DES-BEE-DOVE/TRAIL MOUNTAIN MINES

GROUNDWATER HYDROLOGY - BASELINE SAMPLING (Table 2) - 2001

Groundwater Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Springs												
<i>East Mountain</i>												
<i>East Mountain-Rilda Canyon</i>	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Flow	Flow	Flow	Baseline
<i>Trail Mountain</i>												
In-Mine												
<i>Cottonwood</i>												
<i>Deer Creek</i>												
<i>Trail Mountain</i>												
<i>Oliphant</i>												
<i>T-18</i>												
Wells												
<i>Cottonwood Waste Rock Well</i>												
<i>Cottonwood Canyon Wells</i>												
<i>(includes Straight Canyon TM-3)</i>												
<i>Deer Creek Waste Rock Well</i>												
<i>Deer Creek In-Mine Well</i>												
<i>Rilda Canyon Wells</i>												
<i>Trail Mountain (TM-1B)</i>												
Mine Water Discharge												
<i>Cottonwood</i>	Operational											
<i>WMD01</i>	Operational											
<i>Miller</i>	Operational											
Deer Creek												
<i>DCD</i>	Operational											
Trail Mountain												
<i>TMD</i>	Operational											
Cottonwood												
<i>3 Outfalls</i>	Operational											
Deer Creek												
<i>1 Outfall</i>	Operational											
Des-Bee-Dove												
<i>1 Outfall</i>	Operational											
Trail Mtn												
<i>1 Outfall</i>	Operational											

UTAH DIVISION OF OIL, GAS AND MINING

IPDES SAMPLING - (Table 1)

JUN 17 2001

Cottonwood Mine Water Discharge

APPENDIX B

REPORTING OF TECHNICAL DATA

INCLUDING MONITORING DATA, REPORTS, MAPS, AND OTHER INFORMATION
AS REQUIRED UNDER THE APPROVED PLAN
OR AS REQUIRED BY THE DIVISION

IN ACCORDANCE WITH THE REQUIREMENTS OF R645-301-130 AND R645-301-140.



**VEGETATION MONITORING
LOCATIONS**

Vegetation Monitoring Schedule
Energy West Mining Co.
2000-01

July 19, 2000

	Qualitative	Quantitative			
	Cov	Freq	Dens	Prod	Div
Cottonwood Mine Area					
Old Fan Road	x				
Reference Area	x				
4th East Road	x				
Storage Yard Slope	x				
Parking Lot Slope	x				
Road/Silo Pad Slope	x				
Tipple Area Slopes	x				
Sediment Pond Banks	x				
Ninth East Road Breakout	x				
Waste Rock (Old) Cell 1	x				
Waste Rock (Old) Cell 2	x				
Waste Rock (Old) Cell 3	x				
Waste Rock (Old) Cell 4	x				
Waste Rock (Old) Cell 5	x				
Waste Rock (Old) Cell 6	x				
Waste Rock (Old) Cell 7	x				
Waste Rock (Old) Berm 1	x				
Waste Rock (Old) Berm 2	x				
Waste Rock (Old) Berm 3	x				
Waste Rock (Old) Berm 4	x				
CTW Reference Area	x				
CTW Soil Pile (A,C)	x				
Waste Rock (New) Road Slopes	x				
Waste Rock (New) Topsoil Stockpiles	x				
Waste Rock (New) Subsoil Stockpiles	x				
Waste Rock (New) Sediment Pond Banks	x				
Refuse Berm 1991	x	x	x	x	x
Refuse Berm 1994	x				
Refuse Berm 1996	x				
Cottonwood Canyon					
Soil Piles	x				
Fan Portal Reclaimed Slope (`81)	x	x	x	x	x
Fan Portal Reference Area	x	x	x	x	
Tube Conveyor	x	x			
Belt Portal 1996	x	x			
Portal (Diesel) 1996	x	x			
Reclaimed Slope `98 (Final)	x	x	x	x	

Des-Bee-Dove Area

Beehive Yard Slope	x
Beehive Road Berm	x
Deseret Road Berm	x
Portal Road Berm	x
Bathhouse Road Berm	x
Tipple Slope	x
Sediment Storage Slope	x
Sediment Pond Banks	x
Beehive Slope (reseed area '97)	x
Beehive Substation Slope	x
Sediment Pond Area	x
Bathhouse Slope	x
Material Yard Slope	x
Test Plots '89	x
Subsoil Pile at Sed. Pond Jan. '98	x

Deer Creek Mine

Reference Area, Mixed Conifer	x				
Reference Area, Riparian	x				
Reference Area, Pinyon-Juniper	x				
C2 Conveyor (IU 132-190) 1993	x				
Riparian Areas	x				
Sediment Pond Dam	x				
Temp. Sediment Basin	x				
Roadside Areas	x				
Gate Areas Slope	x				
Fan Road Slopes	x				
Refuse Pile and Berm	x				
Rock Slide and Berm	x				
Water Plant Slope	x				
Pipeline	x				
Deer Canyon	x				
<u>Waste Rock Site</u>					
Reference Area	x				
Access Road Slopes	x				
Phase I Berm	x	x	x	x	x
Phase I Diversion	x	x	x	x	x
<u>Drain Field Reconst</u>					
Field Drains Dec. '97	x				

Trail Mountain Mine

Reference Area	x
Sediment Pond Outslope	x
Parking Ext. 1996	x

Rilda Canyon

Pad Area Slopes 1996	x
Roadway Slopes 1996	x
Topsoil Pile 1995(some roadway slopes)	x

APPENDIX C

LEGAL, FINANCIAL, COMPLIANCE AND RELATED INFORMATION

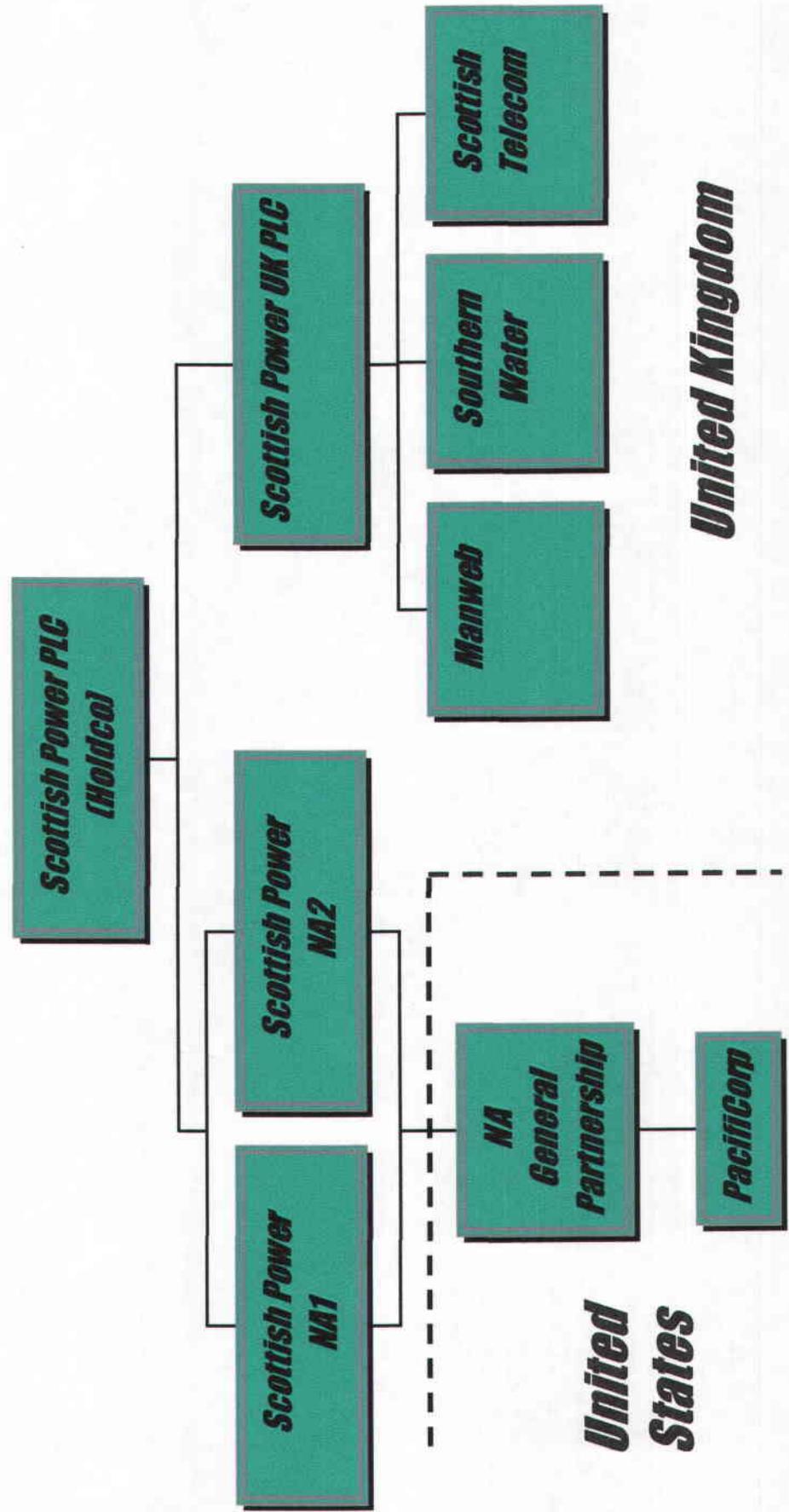
ANNUAL REPORT OF OFFICERS
AS SUBMITTED TO THE UTAH DEPARTMENT OF COMMERCE

AND OTHER CHANGES IN OWNERSHIP AND CONTROL INFORMATION
AS REQUIRED UNDER R645-301-110.



OFFICER & DIRECTOR
LIST

**Diagram of Post-Transaction
Organization Structure
(Restated Merger Statement)**



Officers and Directors of Scottish Power, PLC
(Current as of Dec. 2000)

Name	Position	Social Security No. or Employer ID No.	Address
Sir Ian Robinson Elected: March, 1995 Expires: No Fixed Term	Director (Executive); Chief Executive	Non-US Resident	1 Atlantic Quay Glasgow, Scotland G2 8SP UK
Alan V. Richardson Elected: November, 1999 Expires: No Fixed Term	Director (Executive)	543-55-9129	825 NE Multnomah Suite 2000 Portland, OR 97232 (503)813-5000
Nolan E. Karras Elected: November, 1999 Expires: 2001	Director (Non- Executive)	528-58-9374	4096 South 2275 West Roy, UT 84067
Keith R. McKennon Elected: November, 1999 Expires: 2001	Director (Non- Executive); Deputy Chairman	542-34-7801	1540 SW Vista Avenue #3000 Portland, OR 97201
Robert G. Miller Elected: August 1994 Expires: May, 2001	Director (Non- Executive)	565-56-4401	30 Hunter Lane Camp Hill, PA 17011
Ian Simon MacGregor Russell Elected: April, 1994 Expires: No Fixed Term	Director (Executive); Deputy Chief Executive	Non-US Resident	1 Atlantic Quay Glasgow, Scotland G2 8SP UK
Kenneth L. Vowles Elected: September, 1994 Expires: No Fixed Term	Director (Executive)	Non-US Resident	1 Atlantic Quay Glasgow, Scotland G2 8SP UK

PacifiCorp

Charles Berry Elected: May, 2000 Expires: No Fixed Term	Director (Executive)	Non-US Resident	1 Atlantic Quay Glasgow, Scotland G2 8SP UK
David Thomas Nish Elected: December, 1999 Expires: No Fixed Term	Director (Executive)	Non-US Resident	1 Atlantic Quay Glasgow, Scotland G2 8SP UK
Charles Smith Miller Elected: August, 1999 Expires: 2003	Director (Non-Executive); Deputy Chairman	Non-US Resident	1 Atlantic Quay Glasgow, Scotland G2 8SP UK
Mair Barnes Elected: April, 1999 Expires: 2003	Director (Non-Executive)	Non-US Resident	1 Atlantic Quay Glasgow, Scotland G2 8SP UK
Sir Peter Lewis Gregson GCB Elected: December, 1996 Expires: 2000	Director (Non-Executive)	Non-US Resident	1 Atlantic Quay Glasgow, Scotland G2 8SP UK
Ewen Cameron Stewart Macpherson Elected: September, 1996 Expires: 2000	Director (Non-Executive)	Non-US Resident	1 Atlantic Quay Glasgow, Scotland G2 8SP UK
John Parnaby CBE Elected: September, 1994 Expires: 2001	Director (Non-Executive)	Non-US Resident	1 Atlantic Quay Glasgow, Scotland G2 8SP UK

Officers and Directors of Scottish Power NA1, Limited

(Current as of Dec. 2000)

Name	Position	Social Security No. or Employer ID No.	Address
Ian Simon MacGregor Russell Elected: December, 1998 Expires: No Fixed Term	Executive Director	Non-US Resident	1 Atlantic Quay Glasgow, Scotland G2 8SP UK
David Thomas Nish Elected: November, 1998 Expires: No Fixed Term	Executive Director	Non-US Resident	1 Atlantic Quay Glasgow, Scotland G2 8SP UK
Andrew Ross Mitchell Elected: November, 1998 Expires: No Fixed Term	Executive Director	Non-US Resident	1 Atlantic Quay Glasgow, Scotland G2 8SP UK
Rupert James Stanley Elected: November, 1998 Expires: No Fixed Term	Executive Director	Non-US Resident	1 Atlantic Quay Glasgow, Scotland G2 8SP UK

Officers and Directors of Scottish Power NA2, Limited

(Current as of Dec. 2000)

Name	Position	Social Security No. or Employer ID No.	Address
Ian Simon MacGregor Russell Elected: December, 1998 Expires: No Fixed Term	Executive Director	Non-US Resident	1 Atlantic Quay Glasgow, Scotland G2 8SP UK
David Thomas Nish Elected: November, 1998 Expires: No Fixed Term	Executive Director	Non-US Resident	1 Atlantic Quay Glasgow, Scotland G2 8SP UK
Andrew Ross Mitchell Elected: November, 1998 Expires: No Fixed Term	Executive Director	Non-US Resident	1 Atlantic Quay Glasgow, Scotland G2 8SP UK
Rupert James Stanley Elected: November, 1998 Expires: No Fixed Term	Executive Director	Non-US Resident	1 Atlantic Quay Glasgow, Scotland G2 8SP UK

PacifiCorp Officers

(Current as of Dec. 2000)

Name	Position	Social Security No. or Employer ID No.	Address
Sir Ian Robinson Elected: November, 1999 Expires: May, 2001	Chairman	Non-US Resident	1 Atlantic Quay Glasgow, Scotland G2 8SP UK
Alan V. Richardson Elected: November, 1999 Expires: May, 2001	President and Chief Executive Officer	543-55-9129	825 NE Multnomah Suite 2000 Portland, OR 97232 (503)813-5000
Judi Johansen Elected: December, 2000 Expires: May, 2001	Executive Vice-President	214-78-4112	825 NE Multnomah Suite 2000 Portland, OR 97232 (503)813-5000
William D. Landels Elected: November, 1999 Expires: May, 2001	Executive Vice-President	647-50-9034	201 South Main Street Suite 2100 Salt Lake City, UT 84140 (801)220-4140
Karen K. Clark Elected: January, 2000 Expires: May, 2001	Senior Vice- President and Chief Financial Officer	221-36-9914	825 NE Multnomah Suite 2000 Portland, OR 97232 (503)813-5000
Terry F. Hudgens Elected: April, 2000 Expires: May, 2001	Senior Vice-President	453-06-9062	825 NE Multnomah Suite 2000 Portland, OR 97232 (503)813-5000

PacifiCorp

Andrew N. MacRitchie Elected: May, 2000 Expires: May, 2001	Senior Vice-President	542-55-1916	825 NE Multnomah Suite 2000 Portland, OR 97232 (503)813-5000
Timothy E. Meier Elected: September, 1997 Expires: May, 2001	Senior Vice-President	392-58-2875	825 NE Multnomah Suite 700 Portland, OR 97232 (503)813-5000
Michael J. Pittman Elected: May, 1993 Expires: May, 2001	Senior Vice-President	531-60-9447	825 NE Multnomah Suite 2000 Portland, OR 97232 (503)813-5000
Barry G. Cunningham Elected May, 1999 Expires: May, 2001	Vice President	520-48-7830	201 South Main Street Suite 2100 Salt Lake City, UT 84140 (801)220-4140
Anne E. Eakin Elected: February, 1997 Expires: May, 2001	Vice President	519-66-0588	825 NE Multnomah Suite 1900 Portland, OR 97232 (503)813-5000
Donald A. Furman Elected: May, 1997 Expires: May, 2001	Vice President	105-46-4400	825 NE Multnomah Suite 1900 Portland, OR 97232 (503)813-5000
Craig N. Longfield Elected: May, 1999 Expires: May, 2001	Vice President	225-60-8004	825 NE Multnomah Suite 1900 Portland, OR 97232 (503)813-5000
C. Alex Miller Elected: August, 1999 Expires: May, 2001	Vice President	194-50-5510	825 NE Multnomah Suite 1900 Portland, OR 97232 (503)813-5000

PacifiCorp

Robert A. Moir Elected: May, 2000 Expires: May, 2001	Vice President	541-59-7979	825 NE Multnomah Suite 1900 Portland, OR 97232 (503)813-5000
A. Richard Walje Elected: November 1998 Expires: May, 2001	Vice President	528-82-5129	825 NE Multnomah Suite 1900 Portland, OR 97232 (503)813-5000
Ernest E. Wessman Elected: May, 1993 Expires: May, 2001	Vice President	529-68-3392	201 South Main Street Suite 2100 Salt Lake City, UT 84140 (801)220-4140
Matthew R. Wright Elected: May, 2000 Expires: May, 2001	Vice President	542-55-4717	825 NE Multnomah Suite 1900 Portland, OR 97232 (503)813-5000
Andrew Haller Elected: December, 2000 Expires: May, 2001	General Counsel and Corporate Secretary	203-42-9289	825 NE Multnomah Suite 1900 Portland, OR 97232 (503)813-5000
Robert R. Dalley Elected: August, 1998 Expires: May, 2001	Controller	517-68-3434	825 NE Multnomah Suite 1900 Portland, OR 97232 (503)813-5000
Bruce N. Williams Elected: February, 2000 Expires: May, 2001	Treasure	543-64-0422	825 NE Multnomah Suite 1900 Portland, OR 97232 (503)813-5000

PacifiCorp

PacifiCorp Directors
(Current as of Dec. 2000)

Name	Position	Social Security No. or Employer ID No.	Address
Sir Ian Robinson Elected: November, 1999 Expires: May, 2002	Chairman	Non-US Resident	1 Atlantic Quay Glasgow, Scotland G2 8SP UK
Alan V. Richardson Elected: November, 1999 Expires: May, 2002	Director	543-55-9129	825 NE Multnomah Suite 2000 Portland, OR 97232 (503)813-5000
William D. Landels Elected: November, 1999 Expires: May, 2000	Director	647-50-9034	201 South Main Street Suite 2100 Salt Lake City, UT 84140 (801)220-4140
Karen K. Clark Elected: January, 2000 Expires: May, 2001	Director	221-36-9914	825 NE Multnomah Suite 2000 Portland, OR 97232 (503)813-5000
Nolan E. Karras Elected: February, 1993 Expires: May, 2002	Director	528-58-9374	4096 South 2275 West Roy, UT 84067
Keith R. McKennon Elected: November, 1990 Expires: May, 2000	Director	542-34-7801	1540 SW Vista Avenue #3000 Portland, OR 97201
Robert G. Miller Elected: August 1994 Expires: May, 2001	Director	565-56-4401	30 Hunter Lane Camp Hill, PA 17011

PacifiCorp

Ian Simon MaxGregor Russell Elected: November, 1999 Expires: May, 2001	Director	Non-US Resident	1 Atlantic Quay Glasgow, Scotland G2 8SP UK
Kenneth L. Vowles Elected: November, 1999 Expires: May, 2001	Director	Non-US Resident	1 Atlantic Quay Glasgow, Scotland G2 8SP UK
Judi Johansen Elected: January, 2000 Expires: May, 2001	Director	214-78-4112	825 NE Multnomah Suite 2000 Portland, OR 97232 (503)813-5000
Terry F. Hudgens Elected: May, 2000 Expires: May, 2001	Director	453-06-9062	825 NE Multnomah Suite 2000 Portland, OR 97232 (503)813-5000
Andrew N. MacRitchie Elected: May, 2000 Expires: May, 2001	Director	542-55-1916	825 NE Multnomah Suite 2000 Portland, OR 97232 (503)813-5000
Timothy E. Meier Elected: May, 2000 Expires: May, 2001	Director	392-58-2875	825 NE Multnomah Suite 700 Portland, OR 97232 (503)813-5000
Michael J. Pittman Elected: May, 2000 Expires: May, 2001	Director	531-60-9447	825 NE Multnomah Suite 2000 Portland, OR 97232 (503)813-5000

Officers of Energy West Mining Company
(Current as of Dec. 2000)

Name	Position	Social Security No. or Employer ID No.	Address
Dee W. Jense Elected: October, 2000 Expires: February, 2001	President	529-60-9075	201 South Main Street Suite 2100 Salt Lake City, UT 84140 (801)220-4140
Robert R. Dalley Elected: October, 2000 Expires: February, 2001	Secretary	517-68-3434	825 NE Multnomah Suite 1900 Portland, OR 97232 (503)813-5000
George C. Schreck Elected: October, 2000 Expires: February, 2001	Assistant Secretary	045-50-3722	825 NE Multnomah Suite 1900 Portland, OR 97232 (503)813-5000
Bruce N. Williams Elected: December, 1992 Expires: May, 2001	Treasure	543-64-0422	825 NE Multnomah Suite 1900 Portland, OR 97232 (503)813-5000

Directors of Energy West Mining Company
(Current as of Dec. 2000)

Name	Position	Social Security No. or Employer ID No.	Address
Terry F. Hudgens Elected: October, 2000 Expires: February, 2001	Director	453-06-9062	825 NE Multnomah Suite 2000 Portland, OR 97232 (503)813-5000
Dee W. Jense Elected: August, 1993 Expires: February, 2001	Director	529-60-9075	201 South Main Street Suite 2100 Salt Lake City, UT 84140 (801)220-4140
Robert P. King Elected: July, 1999 Expires: February, 2001	Director	561-84-7103	201 South Main Street Suite 2100 Salt Lake City, UT 84140 (801)220-4140



NOV LIST

PacifiCorp NOV List
Last Revised
12/31/00

Company	NOV Date	Pit/Mine	Permit #	NOV #	Agency	Nature of NOV	Assessment	Status	Status Date	Comments	MSHA # and Date of Issuance
Bridger Coal Company	06/04/1998	Jim Bridger Mine	338-T4	100295	WDEQ/ LQD	exceeding maximum peak particle velocity in blasting	No fine	Terminated	06/18/1999	Blasting procedures corrected and communicated	48-00677 9/28/73
Bridger Coal Company	05/08/1998	Jim Bridger Mine	338-T4	100341	WDEQ/ LQD	conducting mining activities outside permit boundary	\$2,000.00	Terminated	11/25/1998	IBR submitted	48-00677 9/28/73
Bridger Coal Company	10/07/1997	Jim Bridger Mine	338-T3	100339	WDEQ/ LQD	runoff bypassed structure	NA	Terminated	10/30/1997	berm enlarged	48-00677 9/28/73
Bridger Coal Company	04/01/1997	Jim Bridger Mine	338-T3	100338	WDEQ/ LQD	Failure to install sediment control structure	\$3,000.00	Terminated	04/03/1997	Check Dam installed	48-00677 9/28/73
Energy West Mining Company	08/13/1997	Coltonwood/Wilberg	C/015/019	97-26-6-1	DOGM	Failure to maintain silt fences	\$50.00	Terminated	08/14/1997	Paid fine	42-01944 6/14/85
Energy West Mining Company	01/20/1998	Des-Bee-Dove	C/015/017	98-41-1-1	DOGM	Failure to protect stockpiled soil from unnecessary compaction	\$160.00	Terminated	02/10/1998	Paid fine	42-00988 2/27/73
Energy West Mining Company	02/13/1997	Des-Bee-Dove	C/015/017	97-41-3-1	DOGM	Failure to maintain road drainage	\$500.00	Vacated violation and penalty	6/10/97	Informal Conference 5/15/97 DOGM Offices	42-00988 2/27/73
Glenrock Coal Company	05/01/1997	Dave Johnston Mine	291-T4	100844	LQD	Non approved disposal of petroleum liquids	\$1,000.00	Terminated	09/22/1997	Permit revision submitted and approved by LQD	48-00085 3/4/73
Trapper Mining Company	03/26/1998	Trapper Mine	C-81-010	CV-98-003	CDMG	Failure treat runoff	NA	Terminated	07/10/1998	Assessment Paid	05-02838 12/1/80

APPENDIX D

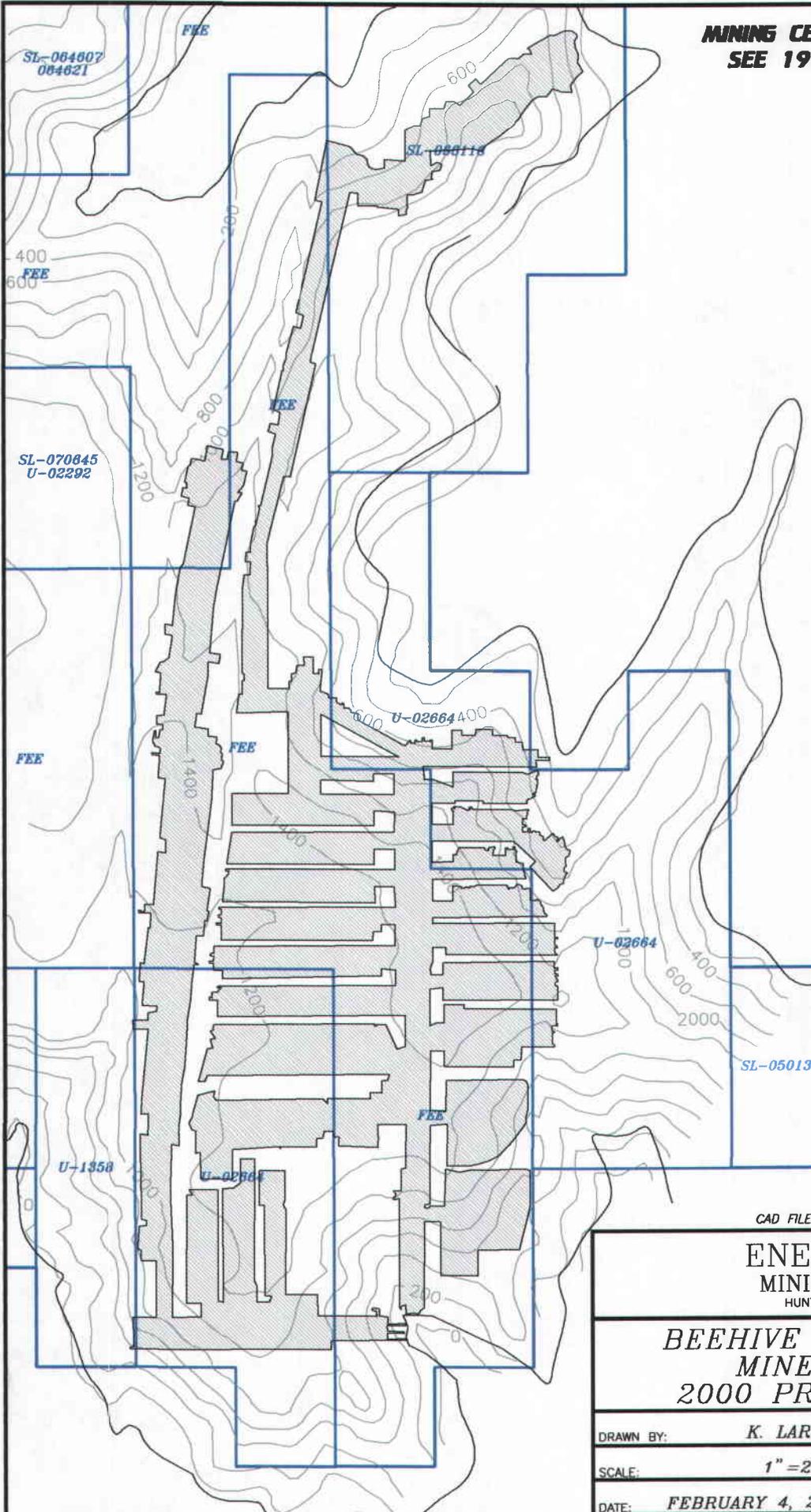
MINE MAPS

AS REQUIRED UNDER R645-301-525.270.



MINE PRODUCTION MAPS
2000

**MINING CEASED FEBRUARY 1987
SEE 1997 PRODUCTION MAP**



RECEIVED

APR 03 2001

DIVISION OF
OIL, GAS AND MINING

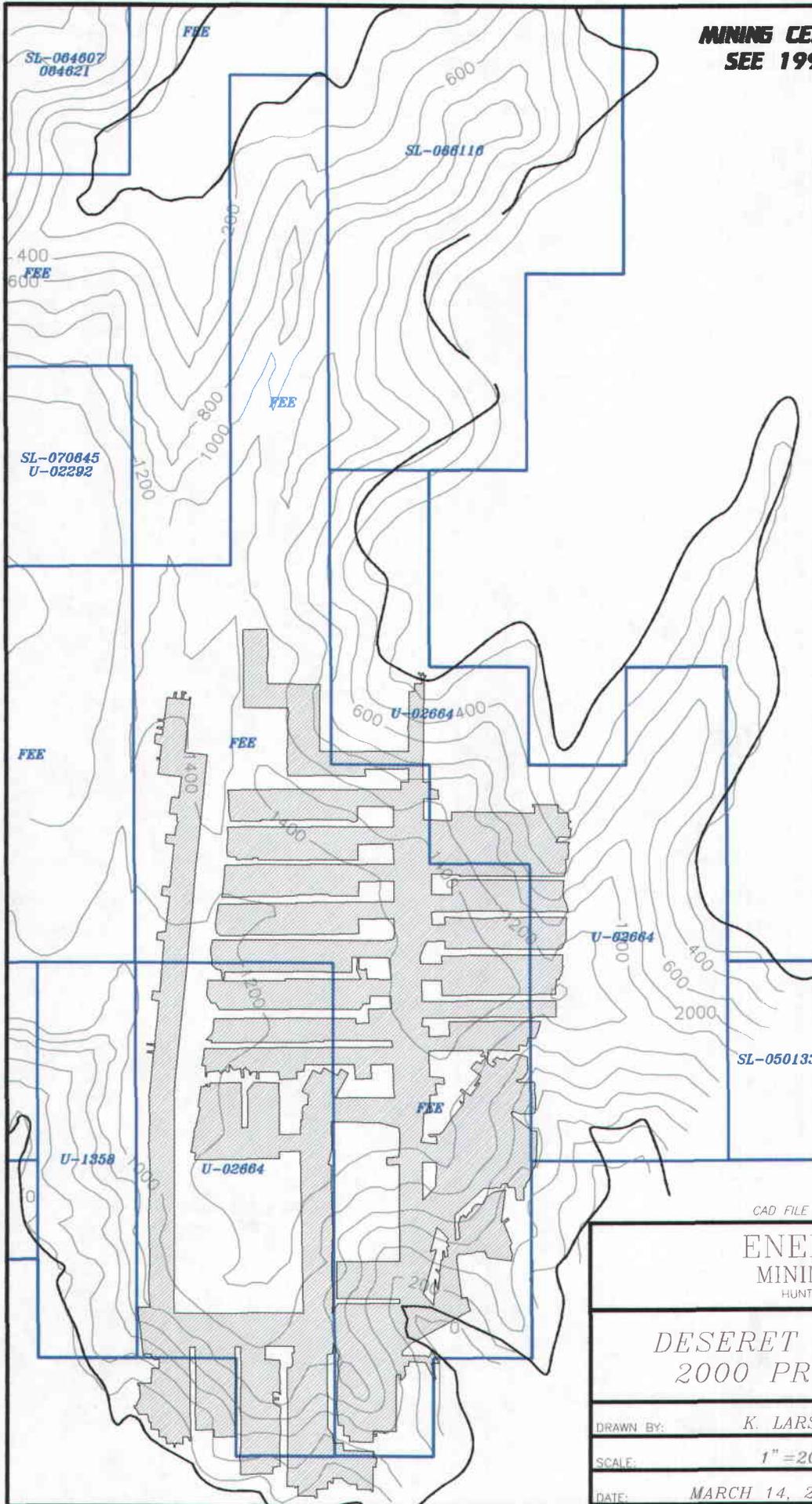
CAD FILE NAME/DISK#: USERS\KJL\VEGMAPS\BEEHIVE.DWG

**ENERGY WEST
MINING COMPANY**
HUNTINGTON, UTAH 84528

**BEEHIVE & LITTLE DOVE
MINE WORKINGS
2000 PRODUCTION MAP**

DRAWN BY:	K. LARSEN	DRAWING #:
SCALE:	1" = 2000'	SHEET	1 OF 1
DATE:	FEBRUARY 4, 2000	REV.	___

**MINING CEASED FEBRUARY 1987
SEE 1997 PRODUCTION MAP**



RECEIVED

APR 03 2001

DIVISION OF
OIL, GAS AND MINING

CAD FILE NAME/DISK#: USERS\KJL\VEGMAPS\BEEHIVE.DWG

ENERGY WEST
MINING COMPANY
HUNTINGTON, UTAH 84528

DESERET MINE WORKINGS
2000 PRODUCTION MAP

DRAWN BY:	K. LARSEN	DRAWING #
SCALE:	1" = 2000'	DRAWING #
DATE:	MARCH 14, 2001	SHEET	1 OF 1 REV

APPENDIX E

OTHER INFORMATION

IN ACCORDANCE WITH THE REQUIREMENTS OF R645-301 AND R645-302.



ABANDONED MINING
EQUIPMENT - 2000



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

Michael O. Leavitt
Governor

Kathleen Clarke
Executive Director

Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

April 20, 2000

Chuck Semborski, Environmental Supervisor
Energy West Mining
P.O. Box 310
Huntington, UT 84528

Re: Abandonment of Mining Machinery, PacifiCorp, Deer Creek Mine, ACT/0015/018, Outgoing File

Dear Mr. Semborski:

Thank you for your recent submittal (April 5, 2000) which more fully describes the equipment what was abandoned underground at the Deer Creek Mine. The information allowed us to better analyze the potential for impacts as a result of the abandonment. Your submittal indicates that the only mining equipments left from the 11th east longwall, were the conveyor line pans with face and gob side accessories consisting of toe plates, clevises, cable trays, bretby tray, spill plates and dynatrac castings. We agree that abandonment of this equipment should have no more impact to the hydrologic balance than the roof support systems utilized in the mine. Thank you again for providing the information that allowed us to complete this determination.

This concludes our review of this particular abandonment, however, we take exception to your statement which indicates that abandonment of mining machinery is not within the jurisdiction of the Division and that such information may be denied to the Division in the future. The abandonment of anything by the mine that could potentially impact the hydrologic balance is certainly within the Division's purview. Regulations that support this view are found at R645-301-737 and R645-301-750. We would be happy to discuss this further if you so desire.

If you have any questions, please call.

Sincerely,

Daron R. Haddock
Permit Supervisor

sm

cc: Mary Ann Wright
Price Field Office

O:\015018.DER\FINAL\abandonltr.wpd



April 5, 2000

Utah Coal Regulatory Program
Division of Oil, Gas and Mining
1594 North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Attention: Daron Haddock
Permit Supervisor

Re: Abandonment of Mining Machinery, PacifiCorp, Deer Creek Mine. ACT/015/018, Emery County, Utah

PacifiCorp, by and through its wholly-owned subsidiary, Energy West Mining Company ("Energy West") as mine operator, herewith submits a response to the Division concerning abandonment of mine machinery in the Deer Creek Mine. PacifiCorp, on November 24, 1999 submitted a request to the Bureau of Land Management for a "Lease Term and Condition Modification Request; Removal of Machinery, Federal Lease U-06039."

Federal Coal Lease U-06039 (modified on February 11, 1999) includes stipulations; Sec. 10 - Delivery of Premises, Removal of Machinery, Equipment, ETC and Sec. 15 - Special Stipulations 24: WASTE CERTIFICATION, which documents abandonment of mine machinery within the federal coal lease. PacifiCorp worked closely with the BLM during development of "Special Stipulations 24." It was PacifiCorp understanding that this material did not qualify under the stipulations listed in the federal coal lease, however, courtesy notification was given to the BLM.

As documented in the November 24, 1999 request to the BLM, the 11th East Longwall face, extracted in early December 1999, was made up of hydraulic roof supports, face conveyor drives, face conveyor line pans, stageloader, crusher, belt tailpiece and face electrics. All equipment, with exception of the longwall conveyor line pans, were fully recovered during the extraction of the 11th East Longwall. The equipment abandoned consist of 140 HBI (1000mm X 1500mm) conveyor line pans with face and gob side accessories consisting of toe plates, clevises, cable trays, bretby tray, spill plates and dynatrac castings (see attached map). No hoses, cables, lubricants, and/or oils of any kind were requested to be included in the abandonment.

Huntington Office:
(435) 687-9821
Fax (435) 687-2695
Purchasing Fax (435) 687-9092

Deer Creek Mine:
(435) 687-2317
Fax (435) 687-2285

Trail Mountain Mine:
(435) 748-2140
Fax (435) 748-5125

Deer Creek Mine: Abandonment of Mine Machinery
ACT/015/018
April 5, 2000
Page Two

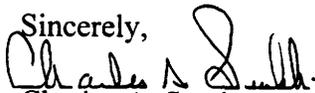
Energy West made every reasonable effort to economically recover and salvage the referenced face conveyor line pans prior to panel extraction. However, due to the equipment's condition and low market scrap prices for steel, it was not reasonable or economical to recover the referenced machinery parts.

To comply with the Division's request, PacifiCorp has provided the following:

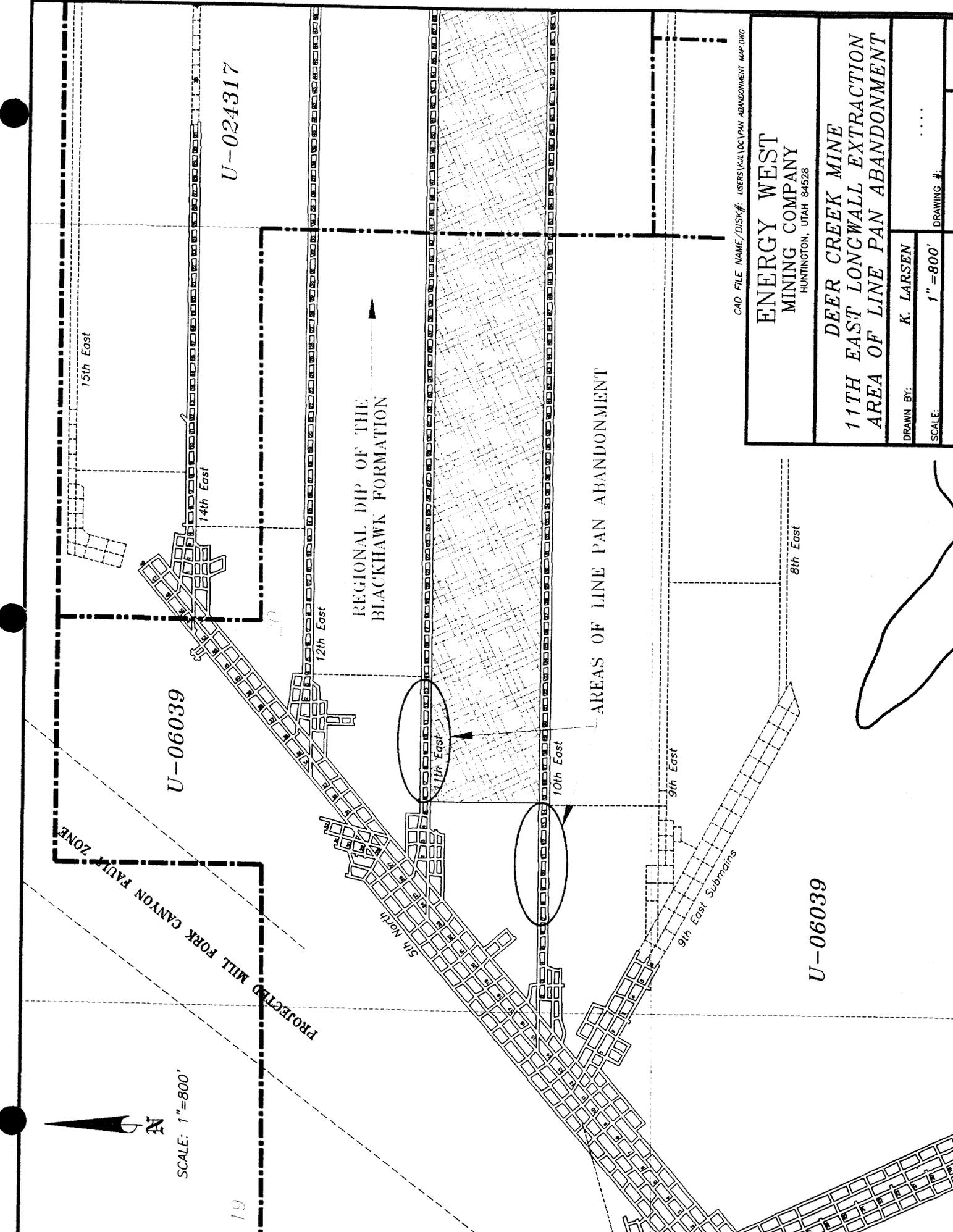
- ▶ A map identifying the location of the line pan (see attached map)
- ▶ Description of the longwall component:
The longwall component abandoned consist of 140 HBI (1000mm X 1500mm) conveyor line pans with face and gob side accessories consisting of toe plates, clevises, cable trays, bretby tray, spill plates and dynatrac castings (see attached map). No hoses, cables, lubricants, and/or oils of any kind were requested to be included in the abandonment.
- ▶ Revision to the Probable Hydrologic Consequences section of the permit (Volume 9: Hydrologic Section) is not necessary. Structurally, the material abandoned is similar to the primary/secondary roof support systems utilized during the mining process. As discussed in Volume 11, Deer Creek MRP: North Rilda Area, the dip of the strata is to the east and intercepted groundwater will not contribute to the surface discharge system upon completion of mining.

The information submitted in this letter is provided as a courtesy to the Division. As you are aware it is PacifiCorp's position that the subject matter of this letter is not within the jurisdiction of the Division. PacifiCorp reserves the right to deny the Division access to such information in the future should it choose to do so. If you believe this position to be in error we would be happy to receive your written explanation as to the regulations you believe provide such jurisdiction or authority.

If there are any questions or concerns please call Chuck Semborski at 687-4720 or Dennis Oakley 687-4825.

Sincerely,

Charles A. Semborski
Geology and Environmental Supervisor
enclosures:

cc: Blake Webster
Carl Pollastro
Chuck Semborski
File



CAD FILE NAME/DISK#: USERS\KULDC\LPAN ABANDONMENT.MAP.DWG

**ENERGY WEST
MINING COMPANY**
HUNTINGTON, UTAH 84528

**DEER CREEK MINE
11TH EAST LONGWALL EXTRACTION
AREA OF LINE PAN ABANDONMENT**

DRAWN BY: **K. LARSEN**

SCALE: **1" = 800'**

DATE: **MARCH 23, 2000**

DRAWING #:

REV.

SHEET **1** OF **1**

SCALE: 1"=800'

U-024317

U-06039

U-06039

PROJECTED MILL FORK CANYON FAULT ZONE

REGIONAL DIP OF THE
BLACKHAWK FORMATION

AREAS OF LINE PAN ABANDONMENT

15th East

14th East

12th East

11th East

10th East

9th East

8th East

5th North

9th East Submains



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

Michael O. Leavitt
Governor

Kathleen Clarke
Executive Director

Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210

PO Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

March 7, 2000

Chuck Semborski, Environmental Supervisor
Energy West
P. O. Box 310
Huntington, Utah 84523

Re: Abandonment of Mining Machinery, PacifiCorp, Deer Creek Mine, ACT/015/018,
Outgoing File

Dear Mr. Semborski:

This letter is a follow-up to our December 29, 1999 letter to you (copy enclosed), in which we asked for information relative to abandonment of Mining Machinery at the Deer Creek Mine. At that time, it appeared urgent that PacifiCorp receive approval to abandon conveyor line pans in the 10th and 11th East gate road entries. We have not yet received your response. If PacifiCorp still has plans for abandonment of machinery underground, we again ask that you provide the information required in our December 29th letter. Please supply the information by no later than April 7, 2000.

If you have any questions please don't hesitate to call.

Sincerely,

Daron R. Haddock
Permit Supervisor

sm

Enclosure

cc: Mary Ann Wright
Richard Manus, BLM
Price Field Office

O:\015018.DER\FINAL\2machltr.wpd



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

Michael O. Leavitt
Governor
Kathleen Clarke
Executive Director
Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

December 29, 1999

Chuck Semborski, Environmental Chairman
Energy West
P. O. Box 310
Huntington, Utah 84528

Re: Abandonment of Mining Machinery, PacifiCorp, Deer Creek Mine, ACT/015/018, File #2, Emery County, Utah

Dear Mr. Semborski:

It has recently come to our attention that PacifiCorp has plans for the abandonment of longwall face conveyor line pans at the Deer Creek Mine. Abandonment of Mining Machinery must be authorized by the Division of Oil Gas and Mining in accordance with the following regulations found in the 301 section of the R645 rules:

- 747.100. *Non coal mine waste, including but not limited to grease, lubricants, paints, flammable liquids, garbage, machinery, lumber and other combustible materials generated during coal mining and reclamation operations will be placed and stored in a controlled manner in a designated portion of the permit area or state-approved solid waste disposal area.*
- 747.200. *Placement and storage of Non coal mine waste within the permit area will ensure that leachate and surface runoff do not degrade surface or ground water.*
- 747.300. *Final disposal of Non coal mine waste within the permit area will ensure that leachate and drainage does not degrade surface or underground water.*

750. *Performance Standards.*

All coal mining and reclamation operations will be conducted to minimize disturbance to the Hydrologic balance within the permit and adjacent areas, to prevent material damage to the Hydrologic balance outside the permit area and support approved postmining land uses in accordance with the terms and conditions of the approved permit and the performance standards of R645-301 and R645-302.

In order for us to evaluate the potential impacts of PacifiCorp's plans to abandon mining machinery underground, you must provide the following documentation in accordance with the above-cited regulations to be incorporated as an amendment into the Deer Creek Mining and Reclamation Plan.

1. A map designating the final disposal location of the abandoned mining machinery.
2. A description of the equipment or machinery being abandoned and its condition upon abandonment.
3. A revision to the Probable Hydrologic Consequences (PHC) document which discusses the abandonment of the mining machinery and describes the potential for any Hydrologic impacts as a result of the abandonment.

Hopefully, this information will aid you in complying with the regulatory requirements. If you have any questions please don't hesitate to call.

Sincerely,



Daron R. Haddock
Permit Supervisor

sm

cc: Mary Ann Wright
Richard Manus, BLM
Carter Reed, USFS
Price Field Office
O:\015018.DER\FINAL\machineltr.wpd



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

Michael O. Leavitt
Governor

Kathleen Clarke
Executive Director

Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

March 7, 2000

Chuck Semborski, Environmental Supervisor
Energy West
P. O. Box 310
Huntington, Utah 84523

Re: Abandonment of Mining Machinery, PacifiCorp, Deer Creek Mine, ACT/015/018,
Outgoing File

Dear Mr. Semborski:

This letter is a follow-up to our December 29, 1999 letter to you (copy enclosed), in which we asked for information relative to abandonment of Mining Machinery at the Deer Creek Mine. At that time, it appeared urgent that PacifiCorp receive approval to abandon conveyor line pans in the 10th and 11th East gate road entries. We have not yet received your response. If PacifiCorp still has plans for abandonment of machinery underground, we again ask that you provide the information required in our December 29th letter. Please supply the information by no later than April 7, 2000.

If you have any questions please don't hesitate to call.

Sincerely,

Daron R. Haddock
Permit Supervisor

sm

Enclosure

cc: Mary Ann Wright
Richard Manus, BLM
Price Field Office

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

Michael O. Leavitt
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1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

December 29, 1999

Chuck Semborski, Environmental Chairman
Energy West
P. O. Box 310
Huntington, Utah 84528

Re: Abandonment of Mining Machinery, PacifiCorp, Deer Creek Mine, ACT/015/018, File #2, Emery County, Utah

Dear Mr. Semborski:

It has recently come to our attention that PacifiCorp has plans for the abandonment of longwall face conveyor line pans at the Deer Creek Mine. Abandonment of Mining Machinery must be authorized by the Division of Oil Gas and Mining in accordance with the following regulations found in the 301 section of the R645 rules:

- 747.100. Non coal mine waste, including but not limited to grease, lubricants, paints, flammable liquids, garbage, machinery, lumber and other combustible materials generated during coal mining and reclamation operations will be placed and stored in a controlled manner in a designated portion of the permit area or state-approved solid waste disposal area.*
- 747.200. Placement and storage of Non coal mine waste within the permit area will ensure that leachate and surface runoff do not degrade surface or ground water.*
- 747.300. Final disposal of Non coal mine waste within the permit area will ensure that leachate and drainage does not degrade surface or underground water.*

- 750. Performance Standards.*
All coal mining and reclamation operations will be conducted to minimize disturbance to the Hydrologic balance within the permit and adjacent areas, to prevent material damage to the Hydrologic balance outside the permit area and support approved postmining land uses in accordance with the terms and conditions of the approved permit and the performance standards of R645-301 and R645-302.

In order for us to evaluate the potential impacts of PacifiCorp's plans to abandon mining machinery underground, you must provide the following documentation in accordance with the above-cited regulations to be incorporated as an amendment into the Deer Creek Mining and Reclamation Plan.

1. A map designating the final disposal location of the abandoned mining machinery.
2. A description of the equipment or machinery being abandoned and its condition upon abandonment.
3. A revision to the Probable Hydrologic Consequences (PHC) document which discusses the abandonment of the mining machinery and describes the potential for any Hydrologic impacts as a result of the abandonment.

Hopefully, this information will aid you in complying with the regulatory requirements. If you have any questions please don't hesitate to call.

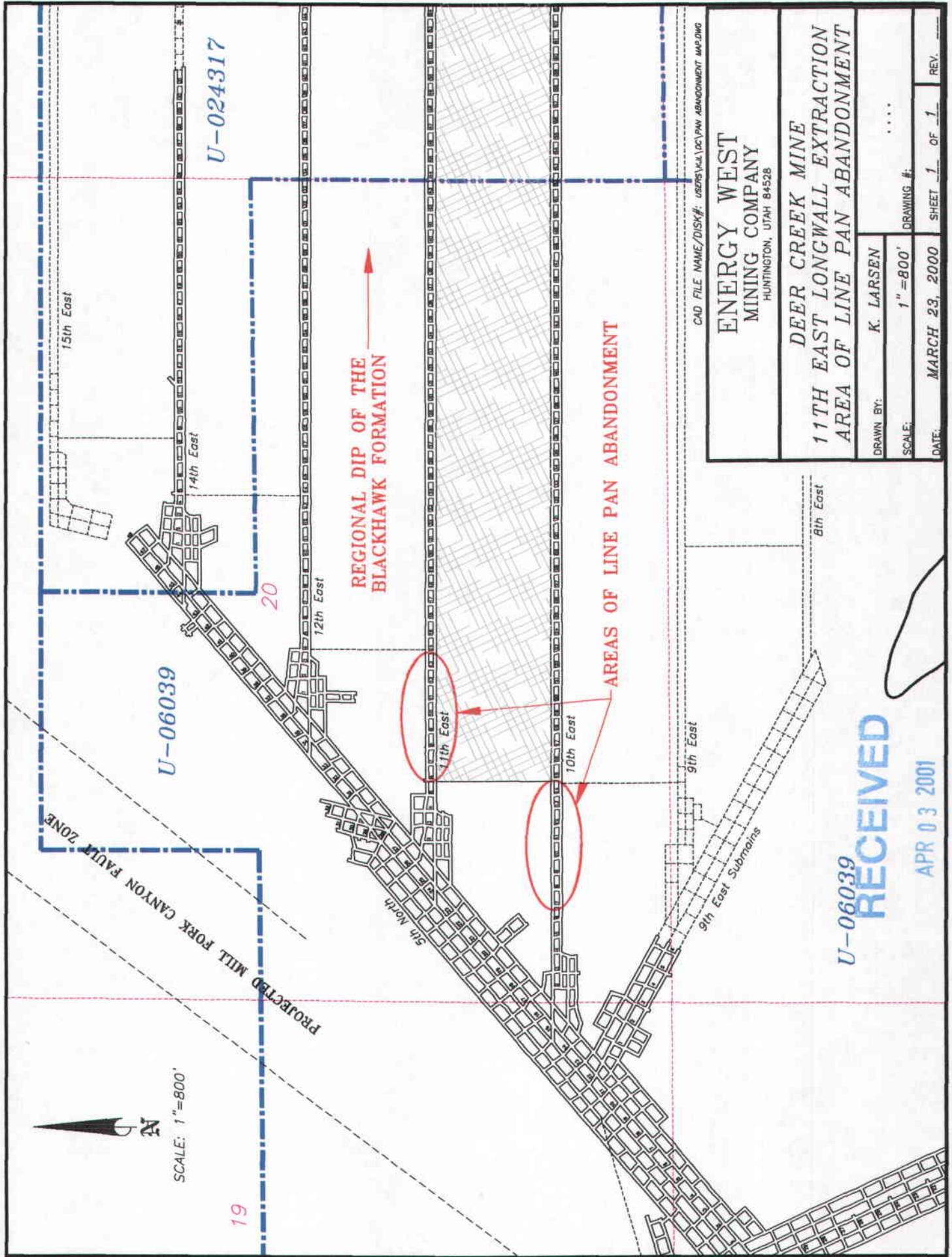
Sincerely,



Daron R. Haddock
Permit Supervisor

sm

cc: Mary Ann Wright
Richard Manus, BLM
Carter Reed, USFS
Price Field Office
O:\015018.DER\FINAL\machineltr.wpd



U-024317

U-06039

U-06039

REGIONAL DIP OF THE
BLACKHAWK FORMATION

AREAS OF LINE PAN ABANDONMENT

ENERGY WEST
MINING COMPANY
HUNTINGTON, UTAH 84528

DEER CREEK MINE
11TH EAST LONGWALL EXTRACTION
AREA OF LINE PAN ABANDONMENT

DRAWN BY:	K. LARSEN	DRAWING #:
SCALE:	1" = 800'	DATE:	MARCH 23, 2000
		SHEET	1 OF 1
		REV.	

CAD FILE NAME/DISK#: USERS\K.LARSEN\11TH PAN ABANDONMENT MAP.DWG

RECEIVED

APR 03 2001

DIVISION OF
OIL, GAS AND MINING



NOV 08 2000
PM 3:11

November 08, 2000

Mr. Richard Manus
Field Manager
Bureau of Land Management
Price Field Office
125 South 600 West
Price, Utah 84501

Subject: **LEASE TERM AND CONDITION MODIFICATION REQUEST;
REMOVAL OF MACHINERY [14TH EAST AND 15TH EAST LONGWALL
CONVEYOR PAN SECTIONS] DEER CREEK MINE; FEDERAL
LEASE U-06039.**

Mr. Manus:

PacifiCorp, by and through its wholly-owned subsidiaries, Interwest Mining Company ("Interwest") as managing agent and Energy West Mining Company ("Energy West") as mine operator hereby submits the following request to modify the current lease terms and conditions of Federal Lease U-06039 [specifically; removal of machinery], to allow for the abandonment of longwall face conveyor line pans in the 12th East and 15th East gate road entries; Federal Lease U-06039; Deer Creek Mine [See Enclosure #1].

The 14th East and 15th East longwall faces are currently scheduled for final extraction in early December/2000 and late February/2001, respectively. These longwall systems are made up of hydraulic roof supports, face conveyor drives, face conveyor line pans, stage-loader, crusher, belt tailpiece and face electrics. All existing equipment, with the exception of the longwall conveyor line pans, is planned for full recovery prior to completion of operations and permanent abandonment of Federal Lease U-06039.

Interwest Mining Company formally requests approval from the Authorized Officer, with concurrence from the surface managing agency(s) and regulatory authority(s), to abandon approximately forty-six (46) 3-pan sections of the existing American Longwall face conveyor panline in available entry cross-cuts of the 12th East and 15th East gate roads [See Enclosure #1] in the immediate area of the 14th East and 15th East longwall extraction faces [XC#5/14th East and XC#4/15th East, respectively; Deer Creek Mine].

Huntington Office:
(435) 687-9821
Fax (435) 687-2695
Purchasing Fax (435) 687-9092

Deer Creek Mine:
(435) 687-2317
Fax (435) 687-2285

Trail Mountain Mine:
(435) 748-2140
Fax (435) 748-5125

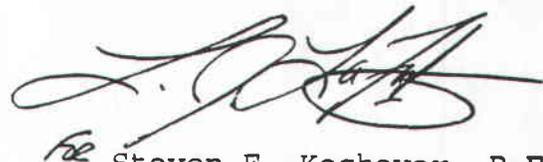
The equipment recommended for abandonment consists of approximately 140 conveyor line pan sections [American Longwall 860mm x 1500mm face conveyor line pans] with face side and gob side accessories consisting of toe plates, clevises, cable trays, bretby tray, spill plates, dynatrac castings, conveyor chain and flight bars. All conveyor drive frames and drive components are scheduled for full recovery. No hoses, cables, lubricants and/or oils of any kind are requested to be included in the abandoned equipment.

Energy West has made every reasonable effort to economically recover and salvage the referenced face conveyor line pans prior to final panel extraction. However, due to the equipment's worn condition and low market scrap prices for steel, it is currently not reasonable or economical to recover the referenced equipment.

Energy West makes the above request based on full consideration to the absence of any short term or long term effect of proposed abandonment to present and/or future underground or surface resources and/or operations.

Due to the urgency and required timely response to this matter, your immediate attention is requested. If you have any questions or require additional information, please contact Larry LaFrentz [Energy West] at (435) 687-4726.

Sincerely,



fe Steven E. Kochevar, P.E.
Mine Planning Administrator
Interwest Mining Company

One (1) Enclosure;

Enclosure #1: LONGWALL PANLINE PROPOSED STORAGE
UNDERGROUND; DATED 10/25/00.

cc: Doug Koza, BLM
Dee Jense, IMC
Steve Kochevar, IMC
Scott Child, IMC
Keith Sinsel, EWMC
Jim Noyes, EWMC
Carl Pollastro, EWMC
Chuck Semborski, EWMC
Lew Tonc, EWMC
Ken Fleck EWMC
L.J. LaFrentz, EWMC



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Price Field Office
125 South 600 West
Price, Utah 84501

3482
U-082996
U-64375
(UT-070)

Certified Mail--Return Receipt Requested
Certificate No. 7099 3400 0006 5101 8416

Mr. Steven E. Kochevar, P. E.
Mine Planning Administrator
Interwest Mining Company
One Utah Center, Suite 2000
Salt Lake City, Utah 84140-0200

DEC 11 2000

Re: Abandonment of Three Longwall Shields, 3rd Right Longwall Extraction, Trail Mountain Mine

Dear Mr. Kochevar:

The Bureau of Land Management (BLM) has received a notification from Interwest that three longwall shields will be abandoned due to safety concerns at the subject mine. This notification was also sent jointly to the Utah Division of Oil, Gas and Mining (UDOGM). UDOGM has evaluated the proposal and potential impacts (we have received a copy of their report) and concludes that no significant impact to the hydrologic balance would occur, as stated in their November 1, 2000, letter to you. We concur with their findings and agree with the proposal to leave the three longwall shields. Indeed, leaving the shields would assure the safety of the area for the extraction of the other longwall shields. The location of the shields have been noted in our records for future waste certification records.

If you have any questions, please contact Stephen Falk of my staff at (435) 636-3600 .

Sincerely,

Richard L. Manus

Richard L. Manus
Field Manager

cc: UT-921, SD, Utah
Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Salt Lake City, Utah 84114-5801
Energy West Mining Company
P. O. Box 310
Huntington, Utah 84528
Manti-LaSal National Forest
599 West Price River Drive
Price, Utah 84501



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Kathleen Clarke
Executive Director

Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210

PO Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

November 1, 2000

Chuck Semborski, Environmental Supervisor
Energy West Mining Company
P.O. Box 310
Huntington, Utah 84528

Re: Abandonment of Equipment Underground, PacifiCorp, Trail Mountain Mine, C015009,
Outgoing File

Dear Mr. Semborski:

Enclosed is a copy of the technical review for the longwall abandonment notification, received by the Division on September 25, 2000. The review indicates no significant impact to the hydrologic balance will be observed due to the abandonment. Thank you for keeping us informed of your mining activities.

If you have any questions, please call me at (801) 538-5325, or Gregg Galecki at (801) 538-5260.

Sincerely,

A handwritten signature in cursive script that reads "Daron R. Haddock".

Daron R. Haddock
Permit Supervisor

gag/sm

Enclosure:

cc: Carter Reed, USFS
Elaine Zieroth, USFS
Price Field Office

O:\015009.TMT\FINAL\AbndEquip.wpd



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

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Governor

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Lowell P. Braxton
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1594 West North Temple, Suite 1210

PO Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

November 1, 2000

TO: Internal File

THRU: Daron R. Haddock, Permit Supervisor *DORH*

FROM: Gregg A. Galecki, Reclamation Hydrologist *GAG*

RE: Abandonment of Equipment Underground, PacifiCorp, Trail Mountain Mine, C015009

SUMMARY

On September 25, 2000 PacifiCorp submitted a letter to the Division indicating three longwall shields had been abandoned underground due to safety measures in the Trail Mountain Mine on Lease No UTU-64375. The fluids could not be drained because the shields could not be released in a safe manner. This Technical Memo assesses the impact to the hydrologic balance in the surrounding area due to the equipment abandonment.

TECHNICAL ANALYSIS:

OPERATION PLAN

HYDROLOGIC INFORMATION

Regulatory Reference: R645-301-731.300, 301-731.500, 301-747, 301-751

Analysis:

Groundwater Monitoring

A total of three longwall shields were abandoned approximately 1200 ft. west of the 5th West Main and 400 ft. north of the 4th Right bleeder. The drawing accompanying the letter

submitted September 25, 2000 incorrectly located the equipment between the 2nd and 3rd right bleeders. The permittee was contacted and he submitted a revised map on October 6, 2000 reflecting the proper location of the shields. The fluids remaining in the shields include a total of 6 gallons of Neat Oil contained within 120 gallons of emulsion fluid (95% water - 5% emulsion oil mixture).

Mining activities are concentrated in the Hiawatha coal seam which is located at the basal contact of the Blackhawk Formation and the upper Star Point Sandstone which strike N20°W and dip 3-5° west-southwest. Elevation of the equipment is approximately 6850 ft. with approximately 2200 ft of overlying sediments. Overlying sediments include the Castlegate sandstone, Price River Formation, and the North Horn Formation which all have limited groundwater potential and limit meteoric migration of water into the lower Blackhawk Formation. Elevations of springs in the vicinity are concentrated at 8700 ft. and 6900 ft, respectively. Spring 18-3-1 is the only spring located near the elevation of the equipment and it is located approximately 9600 ft. southwest. Plate 7-1 from the Trail Mountain MRP indicates the potentiometric surface of the Blackhawk-Starpoint aquifer is located at an elevation of 7080 ft. at the location of the shields and generally dips southwest. This indicates that eventually the equipment will be under water once the majority of the mine workings are saturated.

A Water Rights query indicates the only water users within 10,000 ft of the equipment are PacifiCorp and W.K.Minerals, Inc. The diversion points for both users are approximately 8,000 ft. northeast of the equipment, respectively. MSDS sheets for the Oil and Emulsion fluids are attached.

The U.S. Forest Service (USFS) is the Surface Management Agency for Mine Lease No. UTU-64375. Carter Reed, Manti-LaSal National Forest representative, was contacted by DOGM personnel on October 31, 2000 informing him of the equipment abandonment. He requested copies of the Divisions' notification of the abandonment and this technical analysis.

The impact of abandoning the steel associated with the three longwalls is insignificant compared to the other steel materials that must be left underground. Ferrous materials include steel roof bolts, steel wire ceiling mesh, and steel cans used in support pillars. These materials are not removed due to safety concerns in all underground coal mines.

Although hazardous materials including Neat oil and Emulsion fluids will eventually enter the hydrologic system, it will have an insignificant impact on the hydrologic balance in the area based on the following criteria:

- It will be a period of many years prior to the sediments being saturated to the 6850 ft. elevation.
- The combination of water chemistry, temperature, and lack of oxygen will impede the rate of oxidation of the metal.

FLUIDS:

- . EMULSION FLUID:
[@ 95:5 MIX RATIO; WATER TO OIL] - CENTURY
SOLCINIC 3B: ESTIMATED @ 40 GAL/SUPPORT X 151 SUPPORTS
= 6040 GAL. + 1000 GAL. (HOSE VOLUME) = 7040 GAL. ABANDON
(SEE ATTACHED MSDS SHEETS)

- . GEAR OIL:
[TG JAHNAL KPL-25 GEARCASE] - CENTURY POWERGEAR 320 OIL;
EST. @ 25 GAL. ABANDON
(SEE ATTACHED MSDS SHEETS)

- . ATF FLUID:
[TG VOITH 650 FLUID COUPLING] - STD. HYD. ATF FLUID
EST. @ 15 GAL. ABANDON
(SEE ATTACHED MSDS SHEETS)

- . GREASE
[SPROCKETS, GEARBOX, ETC.] - STD. LITHIUM BASE LUBRICANT
(SEE ATTACHED MSDS SHEETS)

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD): 450 F COC EST

FLAMMABILITY LIMITS: LEL - UNK UEL - UNK

EXTINGUISHING AGENTS: DRY CHEMICAL CO2 FOAM

SPECIAL FIRE FIGHTING PROCEDURES: AVOID BREATHING VAPORS. USE BREATHING APPARATUS IN CONFINED AREAS. COOL EXPOSED CONTAINERS WITH WATERSPRAY.

HAZARDOUS THERMAL DECOMPOSITION PRODUCT: CARBON MONOXIDE, CARBON DIOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS.

HEALTH HAZARD DATA & FIRST AID

PERMISSIBLE CONCENTRATIONS (AIR): NONE ESTABLISHED

ROUTE	EFFECT OF OVEREXPOSURE	EMERGENCY FIRST AID PROCEDURE
-------	------------------------	-------------------------------

EYES	CAN CAUSE IRRITATION	FLUSH WITH WATER. SEE PHYSICIAN
------	----------------------	---------------------------------

SKIN	CAN CAUSE IRRITATION	WASH WITH SOAP & WATER. IF HIGH PRESSURE, GET IMMEDIATE MEDICAL ATTENTION.
------	----------------------	--

INHALATION	MIST MAY CAUSE IRRITATION	REMOVE FROM CONTAMINATED AREA
------------	---------------------------	-------------------------------

INGESTION	NONE EXPECTED	
-----------	---------------	--

REACTIVITY DATA

STABILITY: STABLE

INCOMPATIBILITY: KEEP AWAY FROM STRONG OXIDIZERS

NOTE: HAZARDOUS POLYMERIZATION WILL NOT OCCUR

SPILL OR LEAK PROCEDURES

STEPS TO TAKE IN CASE OF SPILL: Add absorbent to spill area. Keep petroleum products out of sewers and waterways. Advise authorities if they do enter.

WASTE DISPOSAL: Dispose of at appropriate waste facility in accordance with regulations.

PRECAUTIONS IN STORAGE: Keep containers closed when not in use. Do not handle near heat, flames, sparks. Do not weld or heat empty containers.

SPECIAL PROTECTION INFORMATION

RESPIRATION PROTECTION: None normally needed.

VENTILATION TYPE: General adequate. Use local mechanical to insure TLV;s not surpassed where applicable.

CENTURY LUBRICANTS CO.



MATERIAL SAFETY DATA SHEET

MATERIAL SAFETY DATA SHEET

PRODUCT: SOLCENIC 3B EMULSION
MADE WITH DEIONIZED WATER

SECTION I

MANUFACTURER : CENTURY LUBRICATING OILS, INC. TELEPHONE : 800-255-4107
ADDRESS : 2140 S. 88TH ST. CHEM TREC : 800-424-9300
KANSAS CITY, KS 66111-8701
REVISION DATE: 1/25/93 HPC - 11 DOC:114 PREPARED BY : M.D. HART

SECTION II CHEMICAL AND PHYSICAL PROPERTIES

SOLUBILITY IN WATER (@ 20 C): VERY VAPOR DENSITY (AIR): > 1.0
SPECIFIC GRAVITY (WATER-1): < 1.0 STRONG ACID : NO
VAPOR PRESSURE (mmHg @ 20 C): > 1.0 STRONG BASE : NO
EVAPORATION RATE (ether - 1): < 0.01 BOILING POINT (DEG F): 212 F
PERCENT VOLATILE (by weight): 98 MELTING POINT (DEG F): N.A.

APPEARANCE AND ODOR : CLEAR LIQUID, BLAND ODOR

SECTION III REACTIVITY DATA

STABILITY : STABLE INCOMPATIBILITY : KEEP AWAY FROM STRONG OXIDIZERS

NOTE : HAZARDOUS POLYMERIZATION WILL NOT OCCUR

SECTION IV FIRE AND EXPLOSION DATA

FLASH POINT (METHOD) : N/A FLAMMABLE LIMITS-LEL: UNK UEL: UNK
EXTINGUISHING AGENTS : DRYCHEMICAL(X) CO2 (X) WATERSPRAY (X) FOAM (X)
SPECIAL FIRE FIGHTING: Avoid breathing vapors. Use breathing apparatus in
PROCEDURES confined areas. Cool exposed containers with waterspray
HAZARDOUS THERMAL : Carbon monoxide, carbon dioxide and unidentified
DECOMPOSITION PRODUCT organic compounds.

SECTION V PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO TAKE IN : Add absorbent to spill area. Keep petroleum products out of
CASE OF SPILL sewers and waterways. Advise authorities if they do enter.
WASTE DISPOSAL : Dispose of at appropriate waste facility in accordance with
METHOD regulations.
PRECAUTIONS IN : Keep containers closed when not in use. Do not handle near
STORAGE heat, flames, sparks. Do not weld or heat empty containers.

CENTURY LUBRICANTS CO.


 MATERIAL
SAFETY
DATA
SHEET

MATERIAL SAFETY DATA SHEET

PRODUCT: SOLCENIC 3B

SECTION I

MANUFACTURER : CENTURY LUBRICATING OILS, INC. TELEPHONE : 800-255-4107
 ADDRESS : 2140 S. 88TH ST. CHEM TREC : 800-424-9300
 KANSAS CITY, KS 66111-8701
 REVISION DATE: 6/1/90 (442350-AA) DOC:113 PREPARED BY : M.D. HART

SECTION II CHEMICAL AND PHYSICAL PROPERTIES

SOLUBILITY IN WATER (@ 20 C): VERY VAPOR DENSITY (AIR): > 1.0
 SPECIFIC GRAVITY (WATER=1): > 1.0 STRONG ACID : NO
 VAPOR PRESSURE (mmHg @ 20 C): < 0.1 STRONG BASE : NO
 EVAPORATION RATE (ether = 1): < 0.01 BOILING POINT (DEG F): IBP 212 F
 PERCENT VOLATILE (by weight): > 61 MELTING POINT (DEG F): N.A.
 APPEARANCE AND ODOR : AMBER LIQUID, MILD PETROLEUM ODOR

SECTION III REACTIVITY DATA

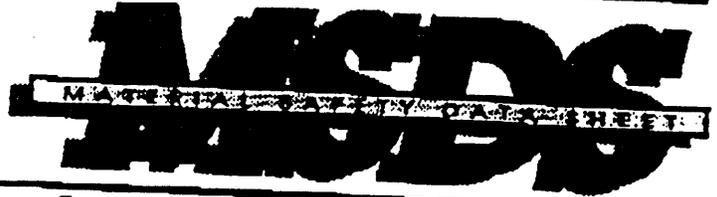
STABILITY : STABLE INCOMPATIBILITY : KEEP AWAY FROM STRONG OXIDIZERS
 NOTE : HAZARDOUS POLYMERIZATION WILL NOT OCCUR

SECTION IV FIRE AND EXPLOSION DATA

FLASH POINT (METHOD) : N.A. FLAMMABLE LIMITS-LEL: UNK UEL: UNK
 EXTINGUISHING AGENTS : DRYCHEMICAL(X) CO2 (X) WATERSPRAY () FOAM (X)
 SPECIAL FIRE FIGHTING: Avoid breathing vapors. Use breathing apparatus in
 PROCEDURES confined areas. Cool exposed containers with waterspray
 HAZARDOUS THERMAL : Carbon monoxide, carbon dioxide, nitrogen oxide and
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 PRECAUTIONS IN : Keep containers closed when not in use. Do not handle near
 STORAGE heat, flames, sparks. Do not weld or heat empty containers.



GREP0298

Revised 25-JUN-1997

Printed 21-APR-1998

TACNA Rx RED MULTIPURPOSE GREASE, NO. 2

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification
 "TACNA" is a registered trademark of Conoco.

Tradenames and Synonyms
 9440 - Conoco Base Code

Company Identification
 MANUFACTURER/DISTRIBUTOR
 Conoco, Inc.
 P.O. Box 2197
 Houston, TX 77252

PHONE NUMBERS

Product Information	1-281-293-5550
Transport Emergency	CHEMTREC 1-800-424-9300
Medical Emergency	1-800-441-3637

COMPOSITION/INFORMATION ON INGREDIENTS

# Components	Material	CAS Number	%
	Highly-Refined Base Oils		80-100
	Lithium soaps		5-20
	*Zinc compound	68649-42-3	0-1
	Proprietary additives		1-5

* Disclosure as a toxic chemical is required under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

(Continued)

FIRE FIGHTING MEASURES

Flammable Properties

Flash Point
Method

450 F (232 C) (Base Oil)
Cleveland Open Cup - COC.

Extinguishing Media

Water Spray, Foam, Dry Chemical, CO2.

Water spray may spread fire.

Fire Fighting Instructions

Cool tank/container with water spray.

Products of combustion may contain carbon monoxide, carbon dioxide, and other toxic materials. Do not enter enclosed or confined space without proper protective equipment including respiratory protection.

ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Spill Clean Up

Recover undamaged and minimally contaminated material for reuse and reclamation. Soak up with sawdust, sand, oil dry or other absorbent material. Shovel or sweep up.

HANDLING AND STORAGE

Handling (Personnel)

Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. Wash contaminated clothing prior to reuse.

Handling (Physical Aspects)

Close container after each use. Do not pressurize, cut, weld, braze, solder, grind, or drill on or near full or empty container. Empty container retains residue (liquid and/or vapor) and may explode in heat of a fire.

Storage

Store below 120 F (49 C). Store in accordance with National Fire Protection Association recommendations. Store away from oxidizers. Store in a clean, dry place.

(Continued)

JUL 10 98 3:27 PM L O S F 713 233 3474 10 014030012555 7.00760

TOXICOLOGICAL INFORMATION

Animal Data

Mouse skin painting studies have shown that highly solvent-refined petroleum distillates similar to ingredients in this product have not caused skin tumors.

Animal skin exposure studies show high concentrations of zinc organic phosphates cause testicular atrophy, but this effect appears related to stress from the chemical causing severe skin irritation. Low concentrations of the zinc component, as occurs in lubricant products, would not have caused testicular damage.

ECOLOGICAL INFORMATION

Ecotoxicological Information

No specific aquatic data available for this product.

DISPOSAL CONSIDERATIONS

Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

Container Disposal

Empty drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All other containers should be disposed of in an environmentally safe manner.

TRANSPORTATION INFORMATION

Shipping Information

DOT
Not regulated.

ICAO/IMO
Not restricted.

Shipping Information -- Canada
This material is Not Regulated.

REGULATORY INFORMATION

U.S. Federal Regulations

OSHA HAZARD DETERMINATION

This material is not known to be hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA/SUPERFUND

(Continued)

CARBON DIOXIDE & OTHER TOXIC MATLS.DO NOT ENTER ENCLOSED/CONFINED SPACE W/O PROPER PORT EQPMT INCLUDING RESP PROT.

=====
Reactivity Data
=====

Stability: YES
Cond To Avoid (Stability): HEAT AND FLAME.
Materials To Avoid: STRONG OXIDIZING MATERIALS.
Hazardous Decomp Products: HAZ GASES/VAPORS PRODUCED ARE CARBON DIOXIDE.
INCOMPLETE COMBUSTION MAY PRODUCE CARBON MONOXIDE.
Hazardous Poly Occur: NO
Conditions To Avoid (Poly): NOT APPLICABLE

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Health Hazard Data
=====

LD50-LC50 Mixture: NONE ESTABLISHED
Route Of Entry - Inhalation: NO
Route Of Entry - Skin: YES
Route Of Entry - Ingestion: NO
Health Haz Acute And Chronic: PRODUCT DOES NOT POSE SIGNIFICANT HEALTH HAZ BUT AS WITH MANY PETROLEUM PRODUCTS POOR HYGIENIC PRACTICES OR INADEQUATE ENGINEERING DESIGN THAT ALLOW PROLONGED/REPEATED EXPOSURE MAY CAUSE MINOR SKIN IRRIT.
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: PER MSDS:LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN BY:NTP/IARC/OSHA:NO.
Signs/Symptoms Of Overexp: MOUSE SKIN PAINTING SUTDIES HAVE SHOWN THAT HIGHLY SOLVENT-REFINED PETROLEUM DISTILLATES SIMILAR TO INGRED IN THIS PRODUCT HAVE NOT CAUSED SKIN TUMORS.
Med Cond Aggravated By Exp: NONE SPECIFIED BY MFG.
Emergency/First Aid Proc: EYE:IMMED FLUSH W/PLENTY OF WATER FOR @LEAST 15MINS.CALL DR.SKIN:COMPOUND NOT LIKELY TO BE HAZ BY SKIN CONTACT BUT CLEANSING SKIN AFT USE IS ADVISABLE.INHAL:NO SPECIFIC INTERVENTION IS INDICATED AS COMPOUND NOT LIKELY TO BE HAZ BY INHAL.HOWEVER CONSULT DR IF NECESSARY.INGEST:DO NOT INDUCE VOMIT.GIVE LG QUANT OF WATER.CALL DR.NOTE TO DR:GASTRIC LAVAGE BY QUALIFIED PERSON DEPENDING ON AMT INGESTED.

=====
Precautions for Safe Handling and Use
=====

Steps If Matl Released/Spill: CONTAIN IMMED.RECOVER BY VACUUMING FOLLOWED BY RECOVERING RESIDUAL FLUIDS W/ABSORBENT MATL.NON-RECOVERABLE PROD, CONTAMIN SOIL/DEBRIS,OTHER MATL SHOULD BE PLACED IN PROPER CNTNR FOR ULTIMATE DISPOSAL.AVOID WASHING,DRAINING,DIRECTING MATL TO STORM/SEW
Neutralizing Agent: NONE SPECIFIED BY MFG
Waste Disposal Method: RECYCLE AS MUCH OF RECOVERABLE PROD AS POSSIBLE.
TREAT/STORAGE/TRANSP/DISPOSAL MUST BE IAW APPLIABLE FED/STATE/PROVINCIAL/ LOC REGS.MATL CONTAINS PETROLEUM HYDROCARBON-CONSIDERED HAZ IF SPILLED IN NAVIGABLE WATERS.RQ=FILM/SHEEN UPON/DISCOLOR OF H2O SUR
Precautions-Handling/Storing: HANDLE & STORE IN ACCORDANCE WITH NFPA PROCEDURE FOR CLASS IIIB COMBUSTIBLE LIQUID.
Other Precautions: NORMAL PRECAUTIONS FOR HANDLING HOT, MOLTEN LIQUID OR SOLUTIONS.

=====
Control Measures
=====

Respiratory Protection: NONE NORMALLY REQUIRED EXCEPT UNDER UNUSUAL CIRCUMSTANCES SUCH AS DESCRIBED IN FIRE/EXPLOSION HAZARD DATA SECTION.
Ventilation: NORMAL SHOP VENTILATION.
Protective Gloves: RUBBER OR PVC GLOVES.
Eye Protection: SAFETY GLASSES W/SIDESHIELDS,CHEM GOGG
Other Protective Equipment: NONE SPECIFIED BY MFG.
Work Hygienic Practices: AVOID CONTACT W/EYES,SKIN,CLOTHING. WASH HANDS AFTER HANDLING.

=====
Transportation Data
=====

Trans Data Review Date: 95017

UTU-64375

3rd Right

13

12

11

10

9

8

7

6

5

4

3

16

17

18

19

20

21

22

23

24

25

26

27

Abandoned Equipment

- (2) 1986 Hemscheidt Shields
- (1) 1998 Joy Shield
- ~40 Gallons each (Emulsion fluids)
- 95% Water
- 5% Emulsion
- 6 Gallons Neat Oil

5th LEFT

Shields
Abandonment
Area

4th Right

13

12

11

10

9

8

7

6

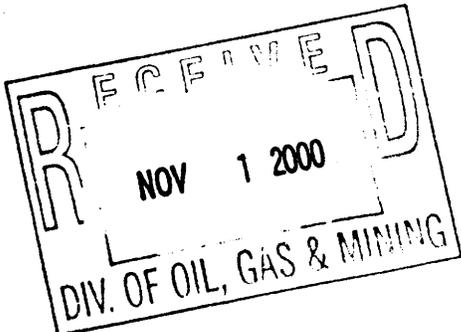
5

4

3

UTU-64375

CAD FILE NAME/DISK#: USERS\KJL\TRAIL\3R-ABANDONMENT.DWG



ENERGY WEST
MINING COMPANY
 HUNTINGTON, UTAH 84528

TRAIL MOUNTAIN MINE
3RD RIGHT LONGWALL
SHIELD ABANDONMENT

DRAWN BY: **K. LARSEN**

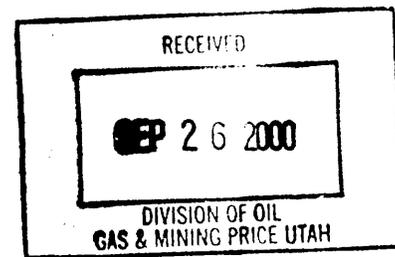
SCALE: **1" = 200'**

DATE: **OCTOBER 6, 2000**

DRAWING #:

SHEET **1** OF **1**

REV. _____



September 25, 2000

Mr. Richard Manus
District Area Manager
Bureau of Land Management
Moab District, Price River Resource Area
125 South 600 West
Price, Utah 84501

Subject: **Abandonment of three longwall shields on the 3rd Right longwall extraction face, Trail Mountain Mine.**

Mr. Manus:

Pacificorp, by and through its wholly-owned subsidiaries, Interwest Mining Company as managing agent and Energy West Mining Company as mine operator hereby submits the following as notification of equipment that has been abandoned due to safety measures in the Trail Mountain Mine on Lease No. UTU-64375.

The longwall at Trail Mountain completed extraction of the 3rd Right panel to its approved extraction face at x-cut 8 on September 3, 2000. The extraction face was meshed and bolted with two noticeable high areas where the upper split and of carbonaceous siltstone had fallen above the normal roof horizon an additional 4-5'. These two areas were located from shield 55-63 and 106 to the tailgate. The new immediate top in these areas was a sandstone member. As the extraction of the shields began, the first 15 shields were extracted with little or no material caving behind the shields. This created additional, arching weight on the face and trailing shields and by the time the 112 was pulled, the trailing shields were very difficult to pull in. While working to pull the trailing shields up to prepare for extraction of shield 111, the area behind the trailing shields began "working" very hard and a shear tear in the sandstone member along the face opened up. Shortly after, a massive fall of the sandstone member, approximately 8-10' high from the tips of the shields to the face (10') and from shield 111-106 (27') occurred without warning. One injury was sustained with the falling rock breaking a leg of one of the supervisors who was stationed in the trailing shield area. This took place on September 6, 2000 at 11:00 am. MSHA was notified due to a roof fall that occurred above the anchorage horizon and they informed Energy West to begin

Huntington Office:
(435) 687-9821
Fax (435) 687-2695
Purchasing Fax (435) 687-9092

Deer Creek Mine:
(435) 687-2317
Fax (435) 687-2285

Trail Mountain Mine:
(435) 748-2140
Fax (435) 748-5125

UTU-64375

3rd Right

13

12

11

10

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6

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16

17

18

19

20

21

22

23

24

25

26

27

2150

Abandoned Equipment

- (2) 1986 Hemscheidt Shields
- (1) 1998 Joy Shield
- ~40 Gallons each (Emulsion fluids)
- 95% Water
- 5% Emulsion
- 6 Gallons Neat Oil

5th LEFT

Shields
Abandonment
Area

90° 22' ELEV.

~~4th Right~~
~~2nd Right~~

13

12

11

10

9

8

7

6

5

4

3

UTU-64375

CAD FILE NAME/DISK#: USERS\KJL\TRAIL\3R-ABANDONMENT.DWG

ENERGY WEST
MINING COMPANY
HUNTINGTON, UTAH 84528

TRAIL MOUNTAIN MINE
3RD RIGHT LONGWALL
SHIELD ABANDONMENT

DRAWN BY: **K. LARSEN**

SCALE: **1" = 200'**

DATE: **OCTOBER 6, 2000**

DRAWING #: ...

SHEET **1** OF **1** REV. ...

Strike N30°W
Dip S-6 W-SW





PO Box 310
Huntington, Utah 84528

September 25, 2000

Mr. Richard Manus
District Area Manager
Bureau of Land Management
Moab District, Price River Resource Area
125 South 600 West
Price, Utah 84501

Subject: **Abandonment of three longwall shields on the 3rd Right longwall extraction face, Trail Mountain Mine.**

Mr. Manus:

Pacificorp, by and through its wholly-owned subsidiaries, Interwest Mining Company as managing agent and Energy West Mining Company as mine operator hereby submits the following as notification of equipment that has been abandoned due to safety measures in the Trail Mountain Mine on Lease No. UTU-64375.

The longwall at Trail Mountain completed extraction of the 3rd Right panel to its approved extraction face at x-cut 8 on September 3, 2000. The extraction face was meshed and bolted with two noticeable high areas where the upper split and of carbonaceous siltstone had fallen above the normal roof horizon an additional 4-5'. These two areas were located from shield 55-63 and 106 to the tailgate. The new immediate top in these areas was a sandstone member. As the extraction of the shields began, the first 15 shields were extracted with little or no material caving behind the shields. This created additional, arching weight on the face and trailing shields and by the time the 112 was pulled, the trailing shields were very difficult to pull in. While working to pull the trailing shields up to prepare for extraction of shield 111, the area behind the trailing shields began "working" very hard and a shear tear in the sandstone member along the face opened up. Shortly after, a massive fall of the sandstone member, approximately 8-10' high from the tips of the shields to the face (10') and from shield 111-106 (27') occurred without warning. One injury was sustained with the falling rock breaking a leg of one of the supervisors who was stationed in the trailing shield area. This took place on September 6, 2000 at 11:00 am. MSHA was notified due to a roof fall that occurred above the anchorage horizon and they informed Energy West to begin

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(435) 748-2140
Fax (435) 748-5125

cleanup of the area and that a representative would be on the property in the afternoon. No citations or orders were cited in connection with this incident.

After the cleanup and some resecuring of the brow areas, the resultant height from 111-106 shield was ~25' high. The trailing shields were set at ~9' high with all the broken material up to the 25' level resting on them. After inspection of the area and in preparation to resume extraction of the shields, it was decided on September 7, for safety reasons to leave the two trailing shields and the first line shield (111) to act as a "breaker row" or bridge between the gob and face area behind the trailing shields and the current extraction face.

The extraction of the remaining shields were successful and completed on September 10, 2000.

In regards to the shields that were abandoned, all three shields were left in support of the roof extended to 8-10' and filled with emulsion fluid (95% water - 5% emulsion oil mixture) with a capacity of ~40 gallons each. The two trailing shields were a 1986 Hemshiedt model and the line shield was a 1998 Joy shield.

If there are any questions in regard to this matter, please call Carl Pollastro at 435-687-4701.

Sincerely,

A handwritten signature in cursive script that reads "S. Kochevar for". The signature is written in black ink and is enclosed within a hand-drawn oval.

Steven E. Kochevar, P.E.
Sr. Planning and Development Engineer
Interwest Mining Company

Cc: William Malencik, UDOGM

UTU-64375

3rd Right

13 12 11 10 9 8 7 6 5 4 3 18 19 20 21 22 23 24 25 26 27

Abandoned Equipment

- (2) 1986 Hemscheidt Shields
- (1) 1998 Joy Shield
- ~40 Gallons each (Emulsion fluids)
- 95% Water
- 5% Emulsion
- 6 Gallons Neat Oil

5th LEFT

Shields Abandonment Area

4th Right

13 12 11 10 9 8 7 6 5 4 3 24 25 26 27

UTU-64375

CAD FILE NAME/DISK#: USERS\KIL\TRAIL\3R-ABANDONMENT.DWG

ENERGY WEST
MINING COMPANY
HUNTINGTON, UTAH 84528

TRAIL MOUNTAIN MINE
3RD RIGHT LONGWALL
SHIELD ABANDONMENT

RECEIVED

APR 03 2001

DIVISION OF
OIL, GAS AND MINING



DRAWN BY: K. LARSEN

SCALE: 1" = 200'

DATE: OCTOBER 6, 2000

DRAWING #:

SHEET 1 OF 1

REV. _____