1999 ANNUAL REPORT TO THE DIVISION OF OIL, GAS & MININ

PACIFICORP

ENERGY WEST MINING COMPANY

- COTTONWOOD MINE: ACT/015/019
- DEER CREEK MINE: ACT/015/018
- DES BEE DOVE MINE: ACT/015/017
- TRAIL MOUNTAIN MINE: ACT/015/009

NTENTS:

NERAL INFORMATION
PENDIX A : CERTIFIED REPORTS
PENDIX B : TECHNICAL DATA
PENDIX C : LEGAL, FINANCIAL,COMPLIANCE & RELATED INFORMATION
PENDIX D : MINE MAPS
PENDIX E : OTHER INFORMATION

PACIFICORP

GENERAL INFORMATION

RECEIVED

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DIVISION OF
OIL, GAS AND MINING

COTTONWOOD MINE GENERAL INFORMATION

GENERAL INFORMATION

1. Permit Number	ACT/015/019
2. Mine Name	Cottonwood Mine
3. Permittee Name	PacifiCorp
4. Operator Name (if other than Permittee)	Energy West Mining Company
5. Permit Expiration Date	7/6/04
6. Company Representative, Title	Chuck Semborski, Geology/Permitting Supervisor
7. Phone Number	435-687-9821
8. Fax Number	435-687-2695
9. Mailing Address	15 North Main Street
	P.O. Box 310
	Huntington, Utah 84528
10. Resident Agent, Title	Chuck Semborski, Geology/Permitting Supervisor
Mailing Address	15 North Main Street
	P.O. Box 310
	Huntington, Utah 84528

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	Cottonwod Mine	
2. MSHA Impoundment(s)	1211-UT-09-01211-01	North Sediment Pond	
	1211-UT-09-01211-02	South Sediment Pond	
3. NPDES/UPDES Permit(s) (water)	UT-0022896	Minor Industrial	10/31/02
		Site 001: Mine Discharge	
		Site 002: Sediment Pond, Cottonwood Cyn.	
		Site 003: Sediment Pond, Grimes Wash	
		Site 004: Miller Canyon Discharge	
		Site 005: Sediment Pond, Waste Rock Site	
4. PSD (Air) Permit(s)	DAQE-694-95	Issued 8/9/95, includes Trail Mountain	
5.	DAQE-835-91	Issued 12/16/91, Waste Rock Site	

5.	DAQE-835-91	Issued 12/16/91, Waste Rock Site	

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	YES	NO	ON FILE	
1. Excess Spoil Piles		X		X		
2. Refuse Piles	X		X		X	Cottonwood/Trail/DesBeeDove WRS
3. Impoundments	X		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	YES	NO	ON FILE	
1. Climatological Data		X	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 Data	X		X			CONFIDENTIAL
5. Soils Monitoring Data		X		X		
6. Water Monitoring Data	X		X			Included as separate Hydrologic Report
First Quarter Report	X		X		X	"
Second Quarter Report	X		X		X	"
Third Quarter Report	X		X		X	"
Fourth Quarter Report	X		X		X	"
7. Geological/Geophysical Data		X		X		
8. Engineering Data		X		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	YES	NO	ON FILE	
1. Department of Commerce, Annual Report of Officers	X		X			
2. Other						
Updated Corporate Officer List (as of 12/99)	X		X		X	
Updated NOV List	X		X		X	
Certificates of Liability	X		X			Asso. Elect. & Gas Serv. Ins. Limit.

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 Production Map, 1999 (Mine used as coal transfer facility only)	Yes

OTHER INFORMATION

Please provide any comments or further information to be included as part of the Annual Report. Any other attachments are to be provided as APPENDIX E to this Annual Report.

Additional attachments to this report? ☐ **No** X **Yes**

Waste Rock Analysis Report

UPDES Expiration Date

Coal Mining Production - 1999

Coal/Rock Ratio

DEER CREEK MINE GENERAL INFORMATION

GENERAL INFORMATION

1. Permit Number	ACT/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	2/5/01
6. Company Representative, Title	Chuck Semborski, Geology/Permitting Supervisor
7. Phone Number	435-687-9821
8. Fax Number	435-687-2695
9. Mailing Address	15 North Main Street
	P.O. Box 310
	Huntington, Utah 84528
10. Resident Agent, Title	Chuck Semborski, Geology/Permitting Supervisor
Mailing Address	15 North Main Street
	P.O. Box 310
	Huntington, Utah 84528

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	
3. 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 10-4-69 Mine Tipple	N/A

5.	DAQE 926-91	Issued 12-5-91 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	YES	NO	ON FILE	
1. Excess Spoil Piles		X		X		
2. Refuse Piles	X		X		X	Quarterly Reports
3. Impoundments	X		X		X	Sed. Pond/WRS Sed. 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	YES	NO	ON FILE	
1. Climatological Data		X	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 Data	X		X			CONFIDENTIAL
5. Soils Monitoring Data		X		X		
6. Water Monitoring Data	X		X			Included in separate Hydrologic Report
First Quarter Report	X		X		X	"
Second Quarter Report	X		X		X	"
Third Quarter Report	X		X		X	"
Fourth Quarter Report	X		X		X	"
7. Geological/Geophysical Data		X		X		
8. Engineering Data		X		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	YES	NO	ON FILE	
1. Department of Commerce, Annual Report of Officers	X		X			
2. Other						
Updated Corporate Officer List (as of 12/99)	X		X		X	
Updated NOV List	X		X		X	
Certificate of Liability	X		X			Asso. Elect. & Gas Serv. Ins. Limit.

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	Deer Creek Production Map 1999	X

OTHER INFORMATION

Please provide any comments or further information to be included as part of the Annual Report. Any other attachments are to be provided as APPENDIX E to this Annual Report.

Additional attachments to this report? ☐ **No** X **Yes**

Coal Mining Production - 1999

UPDES Expiration Date

Waste Rock Analysis Report

In-Mine Sample Analysis

DES BEE DOVE MINE GENERAL INFORMATION

GENERAL INFORMATION

1. Permit Number	ACT/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	9/6/00
6. Company Representative, Title	Chuck Semborski, Geology/Permitting Supervisor
7. Phone Number	435-687-9821
8. Fax Number	435-687-2695
9. Mailing Address	15 North Main Street
	P.O. Box 310
	Huntington, Utah 84528
10. Resident Agent, Title	Chuck Semborski, Geology/Permitting Supervisor
Mailing Address	15 North Main Street
	P.O. Box 310
	Huntington, Utah 84528

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 Mine	N/A
	42-00082	Beehive	N/A
2. MSHA Impoundment(s)		None	
3. NPDES/UPDES Permit(s) (water)	UTG040022	Site 001: Sediment Pond Discharge	4/30/03
4. PSD (Air) Permit(s)		N/A - Mine is in cessation	
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	YES	NO	ON FILE	
1. Excess Spoil Piles		X		X		
2. Refuse Piles	X		X			Included in Cottonwood WRS
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	YES	NO	ON FILE	
1. Climatological Data		X	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 Data	X		X			CONFIDENTIAL
5. Soils Monitoring Data		X		X		
6. Water Monitoring Data	X		X			Included in separate Hydrology Report
First Quarter Report	X		X		X	"
Second Quarter Report	X		X		X	"
Third Quarter Report	X		X		X	"
Fourth Quarter Report	X		X		X	"
7. Geological/Geophysical Data		X		X		
8. Engineering Data		X		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	YES	NO	ON FILE	
1. Department of Commerce, Annual Report of Officers	X		X			
2. Other						
Updated Corporate Officer List (as of 12/99)	X		X		X	
Updated NOV List	X		X		X	
Certificates of Liability	X		X			Asso. Elect. & Gas Serv. Ins. Limit.

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	Deseret Mine Workings	Yes
None	Beehive and Little Dove Mine Workings	Yes

OTHER INFORMATION

Please provide any comments or further information to be included as part of the Annual Report. Any other attachments are to be provided as APPENDIX E to this Annual Report.

Additional attachments to this report? X **No** ☐ **Yes**

TRAIL MOUNTAIN MINE GENERAL INFORMATION

GENERAL INFORMATION

1. Permit Number	ACT/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	2/21/05
6. Company Representative, Title	Chuck Semborski, Geology/Permitting Supervisor
7. Phone Number	435-687-9821
8. Fax Number	435-687-2695
9. Mailing Address	15 North Main Street
	P.O. Box 310
	Huntington, Utah 84528
10. Resident Agent, Title	Chuck Semborski, Geology/Permitting Supervisor
Mailing Address	15 North Main Street
	P.O. Box 310
	Huntington, Utah 84528

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	
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	
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	YES	NO	ON FILE	
1. Excess Spoil Piles		X		X		
2. Refuse Piles	X		X		X	Included as Cottonwood WRS
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	YES	NO	ON FILE	
1. Climatological Data		X	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 Data	X		X			CONFIDENTIAL
5. Soils Monitoring Data		X		X		
6. Water Monitoring Data	X		X			Included in separate Hydrologic Report
First Quarter Report	X		X		X	"
Second Quarter Report	X		X		X	"
Third Quarter Report	X		X		X	"
Fourth Quarter Report	X		X		X	"
7. Geological/Geophysical Data		X		X		
8. Engineering Data		X		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	YES	NO	ON FILE	
1. Department of Commerce, Annual Report of Officers	X		X			
2. Other						
Updated Corporate Officer List (as of 12/99)	X		X		X	
Updated NOV List	X		X		X	
Certificates of Liability	X		X			Asso. Elect. & Gas Serv. Ins. Limit.

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	Trail Mountain Mine Production Map, 1999	Yes

OTHER INFORMATION

Please provide any comments or further information to be included as part of the Annual Report. Any other attachments are to be provided as APPENDIX E to this Annual Report.

Additional attachments to this report? ☐ **No X Yes**

Coal Mining Production Reports - 1999

UPDES Expiration Dates

Sediment Pond Clean Out Analysis Report

In-Mine Analysis Report

APPENDIX A

CERTIFIED REPORTS

EXCESS SPOIL PILES
REFUSE PILES
IMPOUNDMENTS

AS REQUIRED UNDER R645-301-514

CONTENTS

DEER CREEK WASTE ROCK SITE REPORTS (INCLUDES ELK CANYON)
1ST QUARTER
2ND QUARTER
3RD QUARTER
4TH QUARTER

COTTONWOOD/TRAIL/DES BEE DOVE WASTE ROCK SITE REPORTS
1ST QUARTER
2ND QUARTER
3RD QUARTER
4TH QUARTER

SEDIMENT POND REPORTS
DEER CREEK MINE SEDIMENT POND
DEER CREEK WASTE ROCK SITE SEDIMENT POND
COTTONWOOD MINE NORTH AND SOUTH SEDIMENT PONDS IN COTTONWOOD CANYON
COTTONWOOD MINE NORTH AND SOUTH SEDIMENT PONDS IN GRIMES WASH
COTTONWOOD MINE NORTH AND SOUTH SEDIMENT PONDS: MONTHLY MSHA INSPECTION
COTTONWOOD WASTE ROCK SITE SEDIMENT POND
DES BEE DOVE MINE SEDIMENT POND
TRAIL MOUNTAIN MINE SEDIMENT POND

DEER CREEK MINE

WASTE ROCK SITE REPORTS

INSPECTION AND CERTIFIED REP ON EXCESS SPOIL PILE OR REFU. .E			Page 1 of
Permit Number	ACT/015/018	**Report Date**	April 12, 1999
Mine Name	Deer Creek		
Company Name	Energy West Mining Company		
Excess Spoil Pile or Refuse Pile Identification	**Pile Name**	Waste Rock Disposal Site	
	Pile Number		
	MSHA ID Number	1211-UT-09-00121-02	
Inspection Date	March 25, 1999		
Inspected By	John Christensen/Rick Cullum		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	1999 First Quarter Inspection		
	Attachments to Report? ☐ No ☐ Yes		

Field Evaluation

1. Foundation preparation, including the removal of all organic material and topsoil.

All construction was done according to the permitted, professional engineered design specifications.

2. Placement of underdrains and protective filter systems.

An underdrain was installed when the site was constructed in 1989. the drain had a small amount of flow coming through it at the time of the inspection.

3. Installation of final surface drainage systems.

All interim slopes are maintained at their proper grade. The final slopes are surveyed to assure they are correct. Also the two final designed rip-rap ditches were installed as per the permitted plan and are extended as more lifts are added.

4. **Placement and compaction of fill materials.**

The site was leveled in November 1998, trash and extraneous material were removed. Lift was sampled as required. The active lift is at approximately 60% capacity.

5. **Final grading and revegetation of fill.**

See No. 3.

The sub-soil berm surrounding the site was seeded shortly after construction.

6. **Appearances of instability, structural weakness, and other hazardous conditions.**

No weakness or instabilities are evident at this time.

7. **Other Comments. Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period.**

The total storage capacity of the Area No. 1 cell is 460,000 cubic yards. The elevation of the current lift varies with the required drainage slope. The surveyed elevation at the center of the active lift is 6,350 ft. The final design elevation will be 6,369 ft. The Area No. 1 cell is approximately 34% capacity.

The estimated volume of material hauled in 1999 to the site was 2,146 cubic yards, as of March 1, 1999.

Containment basins were constructed within the No. 1 cell to hold sediment from the cleaning of the Deer Creek mine site sediment pond. The cleaning was completed in December 1997. The sediment pond cleanings were excavated and redistributed over the entire site.

Certification Statement

LICENSED PROFESSIONAL ENGINEER
JOHN CHRISTENSEN
Cert. No. 165651
STATE OF UTAH

I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure 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.

By: John Christensen, Construction Engineer
(Full Name and Title)

Signature: John Christensen **Date:** 4/15/99

P.E. Number & State: 165651, Utah

INSPECTION AND CERTIFIED REP ON EXCESS SPOIL PILE OR REFUSE			Page 1 of
Permit Number	ACT/015/018	**Report Date**	April 12, 1999
Mine Name	Deer Creek		
Company Name	Energy West Mining Company		
Excess Spoil Pile or Refuse Pile Identification	**Pile Name**	ELK CANYON/ORIGINAL SITE	
	Pile Number		
	MSHA ID Number	1211-UT-09-0041	
Inspection Date	March 25, 1999		
Inspected By	John Christensen/Rick Cullum		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	1999 First Quarter Inspection		
	Attachments to Report? ☐ No ☐ Yes		

Field Evaluation

1. Foundation preparation, including the removal of all organic material and topsoil.

The construction of both sites have been complete for some time in excess of 8 years. The foundations appear to be stable.

2. Placement of underdrains and protective filter systems.

None

3. Installation of final surface drainage systems.

The slopes of both sites have no rills, gullies or sloughage present. A rill to the east of the retaining wall will be monitored for change. There was no change in this rill from the last inspection.

4. **Placement and compaction of fill materials.**

No fill material is being placed at either site, since both are at their designed capacity. The Elk Canyon site contains approximately 24,000 cubic yards and the original site 90,000 cubic yards of fill material.

5. **Final grading and revegetation of fill.**

The sites are at capacity. The final grades are established and are revegetated.

6. **Appearances of instability, structural weakness, and other hazardous conditions.**

None were observed.

7. **Other Comments. Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period.**

On 3/25/99 there was approximately 500 tons of coal stored in the Elk Canyon pad. The seep at the base of the original refuse pile was slightly damp.

Certification Statement

I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure 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.

LICENSED PROFESSIONAL ENGINEER
JOHN CHRISTENSEN
No. 165651
STATE OF UTAH

(Opt. Stamp)

By: John Christensen, Construction Engineer
(Full Name and Title)

Signature: John Christensen Date: 4/15/99

P.E. Number & State: 165651 Utah

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE			Page 1 of
Permit Number	ACT/015/018	**Report Date**	June 21, 1999
Mine Name	Deer Creek		
Company Name	Energy West Mining Company		
Excess Spoil Pile or Refuse Pile Identification	**Pile Name**	Waste Rock Disposal Site	
	Pile Number		
	MSHA ID Number	1211-UT-09-00121-02	
Inspection Date	June 16, 1999		
Inspected By	John Christensen/Rick Cullum		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	1999 Second Quarter Inspection		
	Attachments to Report? ☐ No ☐ Yes		

Field Evaluation

1. **Foundation preparation, including the removal of all organic material and topsoil.**

All construction was done according to the permitted, professional engineered design specifications.

2. **Placement of underdrains and protective filter systems.**

An underdrain was installed when the site was constructed in 1989. the drain had a small amount of flow coming through it at the time of the inspection.

3. **Installation of final surface drainage systems.**

All interim slopes are maintained at their proper grade. The final slopes are surveyed to assure they are correct. Also the two final designed rip-rap ditches were installed as per the permitted plan and are extended as more lifts are added.

4. **Placement and compaction of fill materials.**

The site was leveled in November 1998, trash and extraneous material were removed. Lift was sampled as required. The active lift is at approximately 80% capacity.

5. **Final grading and revegetation of fill.**

See No. 3.

The sub-soil berm surrounding the site was seeded shortly after construction.

6. **Appearances of instability, structural weakness, and other hazardous conditions.**

No weakness or instabilities are evident at this time.

7. Other Comments. Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period.

The total storage capacity of the Area No. 1 cell is 460,000 cubic yards. The elevation of the current lift varies with the required drainage slope. The surveyed elevation at the center of the active lift is 6,350 ft. The final design elevation will be 6,369 ft. The Area No. 1 cell is approximately 36% capacity.

The estimated volume of material hauled in 1999 to the site was 3,674 cubic yards, as of June 1, 1999.

Certification Statement

LICENSED PROFESSIONAL ENGINEER
JOHN CHRISTENSEN
No. 165651
STATE OF UTAH

Cert. Stamp

I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure 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.

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

Signature: John Christensen Date: 7/8/99

P.E. Number & State: 165651, UT

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE			Page 1 of
Permit Number	ACT/015/018	**Report Date**	JUNE 21, 1999
Mine Name	Deer Creek		
Company Name	Energy West Mining Company		
Excess Spoil Pile or Refuse Pile Identification	**Pile Name**	ELK CANYON/ORIGINAL SITE	
	Pile Number		
	MSHA ID Number	1211-UT-09-0041	
Inspection Date	JUNE 16, 1999		
Inspected By	John Christensen/Rick Cullum		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	1999 2ND Quarter Inspection		
	Attachments to Report? ☐ No ☐ Yes		

Field Evaluation

1. Foundation preparation, including the removal of all organic material and topsoil.

The construction of both sites have been complete for some time in excess of 8 years. The foundations appear to be stable.

2. Placement of underdrains and protective filter systems.

None

3. Installation of final surface drainage systems.

The slopes of both sites have no rills, gullies or sloughage present. A rill to the east of the retaining wall will be monitored for change. There was no change in this rill from the last inspection.

4. **Placement and compaction of fill materials.**

No fill material is being placed at either site, since both are at their designed capacity. The Elk Canyon site contains approximately 24,000 cubic yards and the original site 90,000 cubic yards of fill material.

5. **Final grading and revegetation of fill.**

The sites are at capacity. The final grades are established and are revegetated.

6. **Appearances of instability, structural weakness, and other hazardous conditions.**

None were observed.

7. **Other Comments. Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period.**

On 6/16/99 there was approximately 200 tons of coal stored in the Elk Canyon pad. The seep at the base of the original refuse pile was slightly damp.

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE		Page 3 of

Certification Statement

LICENSED PROFESSIONAL ENGINEER
JOHN CHRISTENSEN
Cert. Sta
No. 165651
STATE OF UTAH

I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure 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.

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

Signature: [signature] Date: 8/27/99

P.E. Number & State: 165651, UTAH

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE			Page 1 of
Permit Number	ACT/015/018	**Report Date**	Sept. 28, 1999
Mine Name	Deer Creek		
Company Name	Energy West Mining Company		
Excess **Spoil Pile or Refuse Pile Identification**	**Pile Name**	Waste Rock Disposal Site	
	Pile Number		
	MSHA ID Number	1211-UT-09-00121-02	
Inspection Date	Sept. 24, 1999		
Inspected By	John Christensen/Rick Cullum		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	1999 Third Quarter Inspection		
	Attachments to Report? ☐ No ☐ Yes		

Field Evaluation

1. **Foundation preparation, including the removal of all organic material and topsoil.**

All construction was done according to the permitted, professional engineered design specifications.

2. **Placement of underdrains and protective filter systems.**

An underdrain was installed when the site was constructed in 1989. the drain had a small amount of flow coming through it at the time of the inspection.

3. **Installation of final surface drainage systems.**

All interim slopes are maintained at their proper grade. The final slopes are surveyed to assure they are correct. Also the two final designed rip-rap ditches were installed as per the permitted plan and are extended as more lifts are added.

4. **Placement and compaction of fill materials.**

The site was leveled in the 3rd quarter of 1999, trash and extraneous material were removed. Lift was sampled as required. The active lift is at approximately 5% capacity.

5. **Final grading and revegetation of fill.**

See No. 3.

The sub-soil berm surrounding the site was seeded shortly after construction.

6. **Appearances of instability, structural weakness, and other hazardous conditions.**

No weakness or instabilities are evident at this time.

7. Other Comments. Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period.

The total storage capacity of the Area No. 1 cell is 460,000 cubic yards. The elevation of the current lift varies with the required drainage slope. The surveyed elevation at the center of the active lift is 6,349 ft. The final design elevation will be 6,369 ft. The Area No. 1 cell is approximately 36% capacity.

The estimated volume of material hauled in 1999 to the site was 4,230 cubic yards, as of September 1, 1999.

Certification Statement

LICENSED PROFESSIONAL ENGINEER
JOHN CHRISTENSEN
Cert. Stat
No. 165651
STATE OF UTAH

I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure 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.

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

Signature: John Christensen Date: 9/28/99

P.E. Number & State: 165651, UTAH

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE			Page 1 of
Permit Number	ACT/015/018	**Report Date**	Sept. 28,1999
Mine Name	Deer Creek		
Company Name	Energy West Mining Company		
Excess Spoil Pile or Refuse Pile Identification	**Pile Name**	ELK CANYON/ORIGINAL SITE	
	Pile Number		
	MSHA ID Number	1211-UT-09-00121-01	
Inspection Date	Sept. 25, 1999		
Inspected By	John Christensen/Rick Cullum		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	1999 Third Quarter Inspection		
	Attachments to Report? ☐ No ☐ Yes		

Field Evaluation

1. **Foundation preparation, including the removal of all organic material and topsoil.**

The construction of both sites have been complete for some time in excess of 8 years. The foundations appear to be stable.

2. **Placement of underdrains and protective filter systems.**

None

3. **Installation of final surface drainage systems.**

The slopes of both sites have no rills, gullies or sloughage present.

4. **Placement and compaction of fill materials.**

No fill material is being placed at either site, since both are at their designed capacity. The Elk Canyon site contains approximately 24,000 cubic yards and the original site 90,000 cubic yards of fill material.

5. **Final grading and revegetation of fill.**

The sites are at capacity. The final grades are established and are revegetated.

6. **Appearances of instability, structural weakness, and other hazardous conditions.**

None were observed.

7. **Other Comments. Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period.**

There was no coal stored in the Elk Canyon pad at the time of inspection. The seep at the base of the refuse pile was slightly damp.

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE		Page 3 of

Certification Statement

LICENSED PROFESSIONAL ENGINEER
JOHN CHRISTENSEN
165651
STATE OF UTAH

I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure 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.

By: JOHN CHRISTENSEN SR. CONST. ENG.
(Full Name and Title)

Signature: John Christensen Date: 9/28/99

P.E. Number & State: 165651 UTAH

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE			Page 1 of
Permit Number	ACT/015/018	**Report Date**	Dec. 16, 1999
Mine Name	Deer Creek		
Company Name	Energy West Mining Company		
Excess Spoil Pile or Refuse Pile Identification	**Pile Name**	Waste Rock Disposal Site	
	Pile Number		
	MSHA ID Number	1211-UT-09-00121-02	
Inspection Date	Dec. 15, 1999		
Inspected By	John Christensen/Rick Cullum		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	1999 Fourth Quarter Inspection		
	Attachments to Report? ☐ No ☐ Yes		

Field Evaluation

1. Foundation preparation, including the removal of all organic material and topsoil.

All construction was done according to the permitted, professional engineered design specifications.

2. Placement of underdrains and protective filter systems.

An underdrain was installed when the site was constructed in 1989. The drain had a small amount of flow coming through it at the time of the inspection.

3. Installation of final surface drainage systems.

All interim slopes are maintained at their proper grade. The final slopes are surveyed to assure they are correct. Also the two final designed rip-rap ditches were installed as per the permitted plan and are extended as more lifts are added.

4. **Placement and compaction of fill materials.**

The site was leveled in the 3rd quarter of 1999, trash and extraneous material were removed. Lift was sampled as required. The active lift is at approximately 5% capacity.

5. **Final grading and revegetation of fill.**

See No. 3.

The sub-soil berm surrounding the site was seeded shortly after construction.

6. **Appearances of instability, structural weakness, and other hazardous conditions.**

No weakness or instabilities are evident at this time.

7. Other Comments. Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period.

The total storage capacity of the Area No. 1 cell is 460,000 cubic yards. The elevation of the current lift varies with the required drainage slope. The surveyed elevation at the center of the active lift is 6,349 ft. The final design elevation will be 6,369 ft. The Area No. 1 cell is approximately 36% capacity.

The estimated volume of material hauled in 1999 to the site was 4,457 cubic yards, as of November 1, 1999.

Refuse being hauled to the site has been minimal due to good geologic conditions at the Deer Creek Mine.

Certification Statement

LICENSED PROFESSIONAL ENGINEER
JOHN CHRISTENSEN
Cert. Stamp
No. 165651
STATE OF UTAH

I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure 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.

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

Signature: John Christensen Date: 12/16/99

P.E. Number & State: 165651 UTAH

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE			Page 1 of
Permit Number	ACT/015/018	**Report Date**	Dec. 16,1999
Mine Name	Deer Creek		
Company Name	Energy West Mining Company		
Excess Spoil Pile or Refuse Pile Identification	**Pile Name**	ELK CANYON/ORIGINAL SITE	
	Pile Number		
	MSHA ID Number	1211-UT-09-00121-01	
Inspection Date	Dec 15, 1999		
Inspected By	John Christensen/Rick Cullum		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	1999 Fourth Quarter Inspection		
	Attachments to Report? ☐ No ☐ Yes		

Field Evaluation

1. **Foundation preparation, including the removal of all organic material and topsoil.**

The construction of both sites have been complete for some time in excess of 8 years. The foundations appear to be stable.

2. **Placement of underdrains and protective filter systems.**

None

3. **Installation of final surface drainage systems.**

The slopes of both sites have no rills, gullies or sloughage present.

4. **Placement and compaction of fill materials.**

No fill material is being placed at either site, since both are at their designed capacity. The Elk Canyon site contains approximately 24,000 cubic yards and the original site 90,000 cubic yards of fill material. This site was covered with recent snow fall.

5. **Final grading and revegetation of fill.**

The sites are at capacity. The final grades are established and are revegetated.

6. **Appearances of instability, structural weakness, and other hazardous conditions.**

None were observed.

7. **Other Comments. Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period.**

There was no coal stored in the Elk Canyon pad at the time of inspection.

Certification Statement I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure 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.

[Cert. Stamp]

By: JOHN CHRISTENSEN SR. CONSTRUCTION ENGINEER
(Full Name and Title)

Signature: John Christensen Date: 12/16/98

P.E. Number & State: 165651 UTAH

LICENSED PROFESSIONAL ENGINEER
JOHN CHRISTENSEN
No. 165651
STATE OF UTAH

COTTONWOOD/TRAIL/ DES BEE DOVE MINE

WASTE ROCK SITE REPORTS

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE			Page 1 of 3
Permit Number	ACT/015/0017/ACT/015/019	**Report Date**	April 12, 1999
Mine Name	Cottonwood/Wilberg/Des-Bee-Dove		
Company Name	Energy West Mining Company		
Excess Spoil Pile or Refuse Pile Identification	**Pile Name**	Old Waste Rock Site	
	Pile Number		
	MSHA ID Number	42-01944 & 42-00988	
Inspection Date	March 31, 1999		
Inspected By	John Christensen/Rick Cullum		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	1999 First Quarter Inspection		
	Attachments to Report? ☐ No ☐ Yes		

Field Evaluation

1. **Foundation preparation, including the removal of all organic material and topsoil.**

Constructed according to plan.

2. **Placement of underdrains and protective filter systems.**

Not applicable.

3. **Installation of final surface drainage systems.**

All surfaces are at their final configuration and drainage established.

4. **Placement and compaction of fill materials.**

This site is complete and at capacity.

5. **Final grading and revegetation of fill.**

Site is complete and vegetation has been established.

6. **Appearances of instability, structural weakness, and other hazardous conditions.**

None observed.

7. **Other Comments. Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period.**

No changes in the site have occurred since the last inspection.

Certification Statement

I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure 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.

[Insert. Stamp]

By: John Christensen, Construction Engineer
(Full Name and Title)

Signature: John Christensen

Date: 4/15/99

P.E. Number & State: 165651 Utah

LICENSED PROFESSIONAL ENGINEER
JOHN CHRISTENSEN
No. 165651
STATE OF UTAH

INSPECTION AND CERTIFIED REPO... ON EXCESS SPOIL PILE OR REFUSE PILE		Page 1 of

Permit Number	ACT/015/017/ACT/015/019	**Report Date**	April 12, 1999
Mine Name	Cottonwood/Wilberg/Des-Bee-Dove/Trail Mountain		
Company Name	Energy West Mining Company		
Excess Spoil Pile or Refuse Pile Identification	**Pile Name**	Cottonwood Waste Rock Site	
	Pile Number		
	MSHA ID Number	1211-UT-09-01944-01	
Inspection Date	March 31, 1999		
Inspected By	John Christensen/Rick Cullum		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	1999 First Quarter Inspection		
	Attachments to Report? ☐ **No** ☐ **Yes**		

Field Evaluation

1. Foundation preparation, including the removal of all organic material and topsoil.

Foundation was prepared according to the approved plan.

2. Placement of underdrains and protective filter systems.

Not applicable.

3. Installation of final surface drainage systems.

The out slopes of the containment berms are at their final configuration and have been revegetated. The inlet ditch to the pond has been lined with rip rap and is extended as the pile changes elevation.

4. Placement and compaction of fill materials.

The refuse piles are leveled in lifts with trash and extraneous material sorted according to the permitted plan. The active lift is approximately 70% capacity. The containment area in the North end of the site was full from recent pond cleanings. Some of the sediment from the Des-Bee-Dove pond cleaning remain in piles until the next site leveling.

5. Final grading and revegetation of fill.

The outslopes of each containment/lift berm have had final grading and vegetation completed.

6. **Appearances of instability, structural weakness, and other hazardous conditions.**

The south face of the refuse pile shows no indication of weakness or instabilities.

7. **Other Comments. Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period.**

The total storage capacity of the site is a 784,000 cubic yards. The elevation of the current lift varies with the required drainage slope. The surveyed elevation at the center of the active lift is 6,800.6 ft. The final design elevation will be 6,850 ft. The entire site is approximately 35% capacity. The estimated volume hauled to the site year to date as of March 1, 1999 was was 2774 cubic yards. The useable area of the present lift is approximately 70% full of refuse piles. Cottonwood North pond cleanings were placed in the containment area on the north end of the site.

Certification Statement

LICENSED PROFESSIONAL ENGINEER
JOHN CHRISTENSEN
No. 165651
STATE OF UTAH

Seal Stamp

I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure 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.

By: John Christensen, Construction Engineer
(Full Name and Title)

Signature: John Christensen **Date:** 4/15/99

P.E. Number & State: 165651 Utah

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE		Page 1 of

Permit Number	ACT/015/017/ACT/015/019	**Report Date**	June 21, 1999
Mine Name	Cottonwood/Wilberg/Des-Bee-Dove/Trail Mountain		
Company Name	Energy West Mining Company		
Excess Spoil Pile or Refuse Pile Identification	**Pile Name**	Cottonwood Waste Rock Site	
	Pile Number		
	MSHA ID Number	1211-UT-09-01944-01	
Inspection Date	June 17, 1999		
Inspected By	John Christensen/Rick Cullum		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		1999 Second Quarter Inspection	
		Attachments to Report? ☐ **No** ☐ **Yes**	

Field Evaluation

1. **Foundation preparation, including the removal of all organic material and topsoil.**

Foundation was prepared according to the approved plan.

2. **Placement of underdrains and protective filter systems.**

Not applicable.

3. **Installation of final surface drainage systems.**

The out slopes of the containment berms are at their final configuration and have been revegetated. The inlet ditch to the pond has been lined with rip rap and is extended as the pile changes elevation.

4. **Placement and compaction of fill materials.**

The refuse piles are leveled in lifts with trash and extraneous material sorted according to the permitted plan. The lift was leveled in may. The active lift is approximately 20% capacity. The containment area in the North end of the site was partially cleaned and spread throught out the pile to make room for the North pond cleaning. Some of the sediment from the Des-Bee-Dove pond cleaning remain in piles until the next berm construction.

5. **Final grading and revegetation of fill.**

The outslopes of each containment/lift berm have had final grading and vegetation completed.

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE		Page 2 of

6. **Appearances of instability, structural weakness, and other hazardous conditions.**

The south face of the refuse pile shows no indication of weakness or instabilities.

7. **Other Comments. Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period.**

The total storage capacity of the site is a 784,000 cubic yards. The elevation of the current lift varies with the required drainage slope. The surveyed elevation at the center of the active lift is 6,800.37 ft. The final design elevation will be 6,850 ft. The entire site is approximately 35% capacity. The estimated volume hauled to the site year to date as of June 1, 1999 was was 4987 cubic yards. The useable area of the present lift is approximately 20% full of refuse piles. Cottonwood North pond cleanings were placed in the containment area on the north end of the site.

Certification Statement

LICENSED PROFESSIONAL ENGINEER
JOHN CHRISTENSEN
No. 165651
STATE OF UTAH

I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure 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.

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

Signature: John Christensen **Date:** 7/8/99

P.E. Number & State: 165651 UT.

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE			Page 1 of 3
Permit Number	ACT/015/0017/ACT/015/019	**Report Date**	JUNE 21, 1999
Mine Name	Cottonwood/Wilberg/Des-Bee-Dove		
Company Name	Energy West Mining Company		
Excess Spoil Pile or Refuse Pile Identification	**Pile Name**	Old Waste Rock Site	
	Pile Number		
	MSHA ID Number	42-01944 & 42-00988	
Inspection Date	JUNE 17, 1999		
Inspected By	John Christensen/Rick Cullum		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	1999 2ND Quarter Inspection		
	Attachments to Report? ☐ No ☐ Yes		

Field Evaluation

1. **Foundation preparation, including the removal of all organic material and topsoil.**

Constructed according to plan.

2. **Placement of underdrains and protective filter systems.**

Not applicable.

3. **Installation of final surface drainage systems.**

All surfaces are at their final configuration and drainage established.

4. Placement and compaction of fill materials.

This site is complete and at capacity.

5. Final grading and revegetation of fill.

Site is complete and vegetation has been established.

6. Appearances of instability, structural weakness, and other hazardous conditions.

None observed.

7. Other Comments. Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period.

No changes in the site have occurred since the last inspection.

Certification Statement

LICENSED PROFESSIONAL ENGINEER
JOHN CHRISTENSEN
No. 165651
STATE OF UTAH

[Cert. Stamp]

I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure 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.

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

Signature: [signature] Date: 8/27/99.

P.E. Number & State: 165651 Utah

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE			Page 1 of
Permit Number	ACT/015/017/ACT/015/019	**Report Date**	Sept. 28, 1999
Mine Name	Cottonwood/Wilberg/Des-Bee-Dove/Trail Mountain		
Company Name	Energy West Mining Company		
Excess Spoil Pile or Refuse Pile Identification	**Pile Name**	Cottonwood Waste Rock Site	
	Pile Number		
	MSHA ID Number	1211-UT-09-01211-01	
Inspection Date	Sept. 22, 1999		
Inspected By	John Christensen/Rick Cullum		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		1999 Third Quarter Inspection	
		Attachments to Report? ☐ **No** ☐ **Yes**	

Field Evaluation

1. **Foundation preparation, including the removal of all organic material and topsoil.**

Foundation was prepared according to the approved plan.

2. **Placement of underdrains and protective filter systems.**

Not applicable.

3. **Installation of final surface drainage systems.**

The out slopes of the containment berms are at their final configuration and have been revegetated. The inlet ditch to the pond has been lined with rip rap and is extended as the pile changes elevation.

4. **Placement and compaction of fill materials.**

The refuse piles are leveled in lifts with trash and extraneous material sorted according to the permitted plan. The lift was leveled in May. The active lift is approximately 65% capacity. The containment area in the North end of the site was partially cleaned and spread throught out the pile to make room for the North pond cleaning this took place in July. Some of the sediment from the Des-Bee-Dove pond cleaning remain in piles until the next berm construction.

5. **Final grading and revegetation of fill.**

The outslopes of each containment/lift berm have had final grading and vegetation completed.

6. Appearances of instability, structural weakness, and other hazardous conditions.

The south face of the refuse pile shows no indication of weakness or instabilities.

7. Other Comments. Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period.

The total storage capacity of the site is a 784,000 cubic yards. The elevation of the current lift varies with the required drainage slope. The surveyed elevation at the center of the active lift is 6,800.10 ft. The final design elevation will be 6,850 ft. The entire site is approximately 35% capacity. The estimated volume hauled to the site year to date as of Sept. 1, 1999 was was 6535 cubic yards. The useable area of the present lift is approximately 65% full of refuse piles. Cottonwood North pond cleanings were placed in the containment area on the north end of the site.

Certification Statement

LICENSED PROFESSIONAL ENGINEER
JOHN CHRISTENSEN
No. 165651
STATE OF UTAH
[Crit Stamp]

I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure 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.

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

Signature: John Christensen Date: 9/28/99

P.E. Number & State: 165651, UTAH

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE			Page 1 of 3
Permit Number	ACT/015/0017/ACT/015/019	**Report Date**	SEPT. 28, 1999
Mine Name	Cottonwood/Wilberg/Des-Bee-Dove		
Company Name	Energy West Mining Company		
Excess Spoil Pile or Refuse Pile Identification	**Pile Name**	Old Waste Rock Site	
	Pile Number		
	MSHA ID Number	42-01944 & 42-00988	
Inspection Date	9/24/99		
Inspected By	John Christensen/Rick Cullum		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		1999 Third Quarter Inspection	
		Attachments to Report? ☐ No ☐ Yes	

Field Evaluation

1. **Foundation preparation, including the removal of all organic material and topsoil.**

Constructed according to plan.

2. **Placement of underdrains and protective filter systems.**

Not applicable.

3. **Installation of final surface drainage systems.**

All surfaces are at their final configuration and drainage established.

4. Placement and compaction of fill materials.

This site is complete and at capacity.

5. Final grading and revegetation of fill.

Site is complete and vegetation has been established.

6. Appearances of instability, structural weakness, and other hazardous conditions.

None observed.

7. Other Comments. Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires. volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period.

No changes in the site have occurred since the last inspection.

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE		Page 3 of 3

Certification Statement

LICENSED PROFESSIONAL ENGINEER
JOHN CHRISTENSEN
Certificate 165651
STATE OF UTAH

I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure 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.

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

Signature: John Christensen Date: 9/28/99

P.E. Number & State: 165651 UTAH

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE		Page 1 of

Permit Number	ACT/015/017/ACT/015/019	**Report Date**	Dec. 16, 1999
Mine Name	Cottonwood/Wilberg/Des-Bee-Dove/Trail Mountain		
Company Name	Energy West Mining Company		
Excess Spoil Pile or Refuse Pile Identification	**Pile Name**	Cottonwood Waste Rock Site	
	Pile Number		
	MSHA ID Number	1211-UT-09-01211-01	
Inspection Date	Dec. 14, 1999		
Inspected By	John Christensen/Rick Cullum		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		1999 Fourth Quarter Inspection	
		Attachments to Report? ☐ **No** ☐ **Yes**	

Field Evaluation

1. **Foundation preparation, including the removal of all organic material and topsoil.**

Foundation was prepared according to the approved plan.

2. **Placement of underdrains and protective filter systems.**

Not applicable.

3. **Installation of final surface drainage systems.**

The out slopes of the containment berms are at their final configuration and have been revegetated. The inlet ditch to the pond has been lined with rip rap and is extended as the pile changes elevation.

4. **Placement and compaction of fill materials.**

The refuse piles are leveled in lifts with trash and extraneous material sorted according to the permitted plan. The site was currently being leveled. The containment area in the North end of the site was partially filled with sediment from the Cottonwood north pond and the trail mountain pond cleaning. Some of the sediment from the Des-Bee-Dove pond cleaning remain in piles until the next berm construction.

5. **Final grading and revegetation of fill.**

The outslopes of each containment/lift berm have had final grading and vegetation completed.

6. **Appearances of instability, structural weakness, and other hazardous conditions.**

The south face of the refuse pile shows no indication of weakness or instabilities.

7. **Other Comments. Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period.**

The total storage capacity of the site is a 784,000 cubic yards. The elevation of the current lift varies with the required drainage slope. The surveyed elevation at the center of the active lift is 6,800.48 ft. The final design elevation will be 6,850 ft. The entire site is approximately 36% capacity. The estimated volume hauled to the site year to date as of Nov. 1, 1999 was 9836 cubic yards. The useable area of the present lift should be approximately 90% once the level process is complete. Cottonwood North pond cleanings were placed in the containment area on the north end of the site.

Certification Statement

LICENSED PROFESSIONAL ENGINEER
JOHN CHRISTENSEN
No. 165651
[Cert. Stamp]
STATE OF UTAH

I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure 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.

By: JOHN CHRISTENSEN, SR. CONST. ENGINEER
(Full Name and Title)

Signature: John Christensen **Date:** 12/16/99

P.E. Number & State: 165651 UTAH

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE			Page 1 of 3
Permit Number	ACT/015/0017/ACT/015/019	**Report Date**	Dec. 16, 1999
Mine Name	Cottonwood/Wilberg/Des-Bee-Dove		
Company Name	Energy West Mining Company		
Excess Spoil Pile or Refuse Pile Identification	**Pile Name**	Old Waste Rock Site	
	Pile Number		
	MSHA ID Number	42-01944 & 42-00988	
Inspection Date	12/14/99		
Inspected By	John Christensen/Rick Cullum		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	1999 Fourth Quarter Inspection		
	Attachments to Report? ☐ No ☐ Yes		

Field Evaluation

1. **Foundation preparation, including the removal of all organic material and topsoil.**

Constructed according to plan.

2. **Placement of underdrains and protective filter systems.**

Not applicable.

3. **Installation of final surface drainage systems.**

All surfaces are at their final configuration and drainage established.

4. Placement and compaction of fill materials.

This site is complete and at capacity.

5. Final grading and revegetation of fill.

Site is complete and vegetation has been established.

6. Appearances of instability, structural weakness, and other hazardous conditions.

None observed.

7. Other Comments. Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period.

No changes in the site have occurred since the last inspection.

Certification Statement I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure 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.

[Cert. Stamp]

By: JOHN CHRISTENSEN, JR. CONSTRUCTION ENG

(Full Name and Title)

Signature: _____ Date: 12/16/94

P.E. Number & State: 165651 UTAH

LICENSED PROFESSIONAL ENGINEER
JOHN CHRISTENSEN
No. 165651
STATE OF UTAH

DEER CREEK MINE

SEDIMENT POND REPORTS

File

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			Page 1 of 3
Permit Number	ACT/015/018	**Report Date**	April 13, 1999
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: 3/16/99**	**Waste Rock Pond:** 3/16/99
Inspected By	Rick Cullum / John Christensen	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	1st Quarter 1999 Inspection	

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

	Mine Site Pond	Waste Rock Pond
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.

	Mine Site Pond:	Waste Rock Pond:
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.

	Mine Site Pond	Waste Rock Pond
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 clean out, pond decanting, embankment erosion/repairs, monitoring information, vegetation on out slopes of embankments, etc.

	Mine Site Pond	Waste Rock Pond
Water Elevation	7226.59	No 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.

	Mine Site Pond	Waste Rock Pond
Sediment Volume	.54 A.F.	None
Remaining Sediment Storage Capacity	2.58 A.F.	0.98 A.F.
Water impounded	5.7 A.F.	
Changes, Comments, etc.	No changes from previous inspection. Pond will be surveyed in the 2nd Quarter, 1999.	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 Chinteve **Date:** 4/15/99
Signature: Richard Cullum **Date:** 4/15/99

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/015/018	Report Date	June 15, 1999
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: 6/11/99	Waste Rock Pond: 6/11/99
Inspected By	Rick Cullum / John Christensen	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	2nd Quarter 1999 Inspection	

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

	Mine Site Pond	Waste Rock Pond
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.**

	Mine Site Pond:	Waste Rock Pond:
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.**

	Mine Site Pond	Waste Rock Pond
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 clean out, pond decanting, embankment erosion/repairs, monitoring information, vegetation on out slopes of embankments, etc.

	Mine Site Pond	Waste Rock Pond
Water Elevation	7224.18	No 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.

	Mine Site Pond	Waste Rock Pond
Sediment Volume	.95 A.F.	None
Remaining Sediment Storage Capacity	2.17 A.F.	0.98 A.F.
Water impounded	6.49 A.F.	
Changes, Comments, etc.	No changes from previous inspection. Sediment box was cleaned in June.	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: [signature] **Date:** 7/8/99

Signature: Richard Cullum **Date:** 7-9-99

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/015/018	Report Date	Sept. 28, 1999
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: 9/21/99	Waste Rock Pond: 9/24/99
Inspected By	Rick Cullum / John Christensen	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Third Quarter 1999 Inspection	

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

	Mine Site Pond	Waste Rock Pond
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.

	Mine Site Pond:	Waste Rock Pond:
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.

	Mine Site Pond	Waste Rock Pond
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.

	Mine Site Pond	Waste Rock Pond
Water Elevation	7219.33	No 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.

	Mine Site Pond	Waste Rock Pond
Sediment Volume	.90 A.F.	None
Remaining Sediment Storage Capacity	2.22 A.F.	0.98 A.F.
Water impounded	3.7 A.F.	AREA 60'X 40' APPROX. 4" DEEP
Changes, Comments, etc.	No changes from previous inspection. Sediment box was cleaned 4th week in Sept. Water was low at time of 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 Chartese **Date:** 9/28/99

Signature: Richard Cullum **Date:** 9-29-99

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/015/018	Report Date	Dec. 16, 1999
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: 12/14/99	Waste Rock Pond: 12/14/99
Inspected By	Rick Cullum / John Christensen	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Fourth Quarter 1999 Inspection	

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

	Mine Site Pond	Waste Rock Pond
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.**

	Mine Site Pond:	Waste Rock Pond:
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.**

	Mine Site Pond	Waste Rock Pond
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.

	Mine Site Pond	Waste Rock Pond
Water Elevation	7220.07 Top of ice	No 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.

	Mine Site Pond	Waste Rock Pond
Sediment Volume	.90 A.F.	None
Remaining Sediment Storage Capacity	2.22 A.F.	0.98 A.F.
Water impounded	4.3 A.F.	None
Changes, Comments, etc.	No changes from previous inspection. Sediment box was cleaned 4th week in Sept.	No change from previous Inspection

Qualification
State of Utah

LICENSED PROFESSIONAL ENGINEER
JOHN CHRISTENSEN
No. 165651
STATE OF UTAH

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:** 12/16/99
Signature: Richard Cullum **Date:** 12-16-99

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

COTTONWOOD MINE

SEDIMENT POND REPORTS

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			Page 1 of 3
Permit Number	ACT/015/019	**Report Date**	April 13, 1999
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	**March 23, 1999**
Inspected By	Rick Cullum/ John Christensen
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	1st Quarter 1999 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.

	North Basin	South Basin
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.

	North Basin	South Basin
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.

	North Basin	South Basin
Water Elevation	Dry	Dry
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.

	North Basin	South Basin
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: John Ambler **Date:** 4/15/99

Signature: Richard Cullum **Date:** 4/15/99

CERTIFIED REPORT

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			Page 1 of 3
Permit Number	ACT/015/019	**Report Date**	April 13, 1999
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-09-01944-01	1211-UT-09-01944-02	

IMPOUNDMENT INSPECTION

Inspection Date	3/16/99
Inspected By	Rick Cullum/ John Christensen
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	1st Quarter Inspection 1999

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.

	North Pond	South Pond	Waste Rock Pond
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.

	North Pond	South Pond	Waste Rock Pond
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 clean out, pond decanting, embankment erosion/repairs, monitoring information, vegetation on out slopes of embankments, etc.

	North Pond	South Pond	Waste Rock Pond
Water Elevation	7354.45	7329.14	6761.90
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.

	North Pond	South Pond	Waste Rock Pond
Sediment Volume	0.36	0.09	0.58 AF
Remaining Sediment Storage Capacity	0.20 AF	0.23AF	1.84 AF
Water Impounded	0.14	0.61	0.62 AF
Changes, Comments,	Pond is functioning Normally. It is scheduled to be cleaned during 2nd quarter '99.	Pond is funtioning 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: [signature] **Date:** 4/15/99
Signature: Richard Cullum **Date:** 4/15/99

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 15, 1999
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 11, 1999
Inspected By	Rick Cullum/ John Christensen
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	2nd Quarter 1999 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.**

	North Basin	South Basin
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.**

	North Basin	South Basin
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.

	North Basin	South Basin
Water Elevation	Dry	Dry
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.

	North Basin	South Basin
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: John Christensen **Date:** 6/22/99
Signature: Richard Cullum **Date:** 6/25/99

CERTIFIED REPORT

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			Page 1 of 3
Permit Number	ACT/015/019	Report Date	June 15, 1999
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-09-01944-01	1211-UT-09-01944-02	

IMPOUNDMENT INSPECTION

Inspection Date	6/10/99
Inspected By	Rick Cullum/ John Christensen
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	2nd Quarter Inspection 1999

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.**

	North Pond	South Pond	Waste Rock Pond
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.**

	North Pond	South Pond	Waste Rock Pond
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 clean out, pond decanting, embankment erosion/repairs, monitoring information, vegetation on out slopes of embankments, etc.

	North Pond	South Pond	Waste Rock Pond
Water Elevation	7354.12	7329.04	6760.27
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.

	North Pond	South Pond	Waste Rock Pond
Sediment Volume	0.36	0.14	0.70 AF
Remaining Sediment Storage Capacity	0.20 AF	0.18AF	1.72 AF
Water Impounded	0.14	0.56	0.30 AF
Changes, Comments,	Pond is functioning Normally. The pond Scheduled to be cleaned during 3rd quarter '99.	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 Christen **Date:** 7/8/99
Signature: Richard Cullen **Date:** 7-9-99

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	Sept. 28, 1999
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. 23, 1999
Inspected By	Rick Cullum/ John Christensen
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Third Quarter 1999 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.**

	North Basin	South Basin
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.**

	North Basin	South Basin
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.

	North Basin	South Basin
Water Elevation	Small amount from Rain storms	Small amount from Rain storms
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.

	North Basin	South Basin
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: John Interse **Date:** 9/28/99
Signature: Richard Cullum **Date:** 9-29-99

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			Page 1 of 3
Permit Number	ACT/015/019	Report Date	Sept. 28, 1999
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	9/21/99
Inspected By	Rick Cullum/ John Christensen
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	3rd Quarter Inspection 1999

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.**

	North Pond	South Pond	Waste Rock Pond
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.**

	North Pond	South Pond	Waste Rock Pond
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.

	North Pond	South Pond	Waste Rock Pond
Water Elevation	7354.27	7328.99	6760.82
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.

	North Pond	South Pond	Waste Rock Pond
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	0.47 AF	0.50 AF	0.37 AF
Changes, Comments,	Pond is functioning Normally at this time. The pond was cleaned During the 3rd quarter Of 1999	Pond is fun-tioning nor-mally.	Pond in func-tioning nor-mally.

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 Christense Date: 9/28/99

Signature: Richard Cullum Date: 9-29-99

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	Dec. 16, 1999
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. 15, 1999
Inspected By	Rick Cullum/ John Christensen
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Fourth Quarter 1999 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.**

	North Basin	South Basin
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.**

	North Basin	South Basin
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.

	North Basin	South Basin
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.

	North Basin	South Basin
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

LICENSED PROFESSIONAL ENGINEER JOHN CHRISTENSEN No. 157551

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:** 12/16/99

Signature: Richard Cullum **Date:** 12-16-99

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			Page 1 of 3
Permit Number	ACT/015/019	Report Date	Dec. 16, 1999
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	December 13, 1999
Inspected By	Rick Cullum/ John Christensen
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	4th Quarter Inspection 1999

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.**

	North Pond	South Pond	Waste Rock Pond
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.**

	North Pond	South Pond	Waste Rock Pond
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.

	North Pond	South Pond	Waste Rock Pond
Water Elevation	7354.47 Top of ice	7329.24 Top of ice	6760.42 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.

	North Pond	South Pond	Waste Rock Pond
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	0.52 AF	0.55 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 fun-tioning nor-mally.	Pond in func-tioning nor-mally.

Qualified Professional Engineer Statement

LICENSED PROFESSIONAL ENGINEER JOHN CHRISTENSEN No. 165651 STATE OF UTAH

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: [illegible] **Date:** 12/16/99

Signature: Richard Cullum **Date:** 12/16/99

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

ENERGY WEST Mining Co.
PO Box 310
Huntington, Utah 84528

January 19, 1999

COTTONWOOD MSHA IMPOUNDMENT INSPECTIONS

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

- Water elevation is at normal discharge level. Pond is not frozen.
- Slopes and dam appear stable and unchanged.
- Undercutting from the North Pond bypass is unchanged.
- Dam outslope rip-rap is intact
- MSHA I.D. sign observed.
- Sediment delta present.

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

- 22.8 gpm pond discharge. Discharge appears clean.
- Slopes and dam appear stable and unchanged
- Dam outslope rip-rap is intact
- MSHA I.D. sign observed.
- Vegetative filter is unchanged
- Pond is frozen
- Delta in SE corner is up to the outlet of the road drainage culvert

Inspection Date: 1/19/99

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

ENERGY WEST Mining Co.
PO Box 310
Huntington, Utah 84528

February 22, 1999

COTTONWOOD MSHA IMPOUNDMENT INSPECTIONS

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

- Water elevation is at normal discharge level. Pond is not frozen.
- Slopes and dam appear stable and unchanged.
- Dam outslope rip-rap is intact
- MSHA I.D. sign observed.
- Sediment delta present.

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

- 32.0 gpm pond discharge. Discharge appears clean.
- Slopes and dam appear stable and unchanged
- Dam outslope rip-rap is intact
- MSHA I.D. sign observed.
- Pond is frozen
- Delta in SE corner is unchanged.

Inspection Date: 2/22/99

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

cc: Dennis Oakley

Huntington Office:
(435) 687-9821
Fax (435) 687-2695
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ENERGY WEST Mining Co.
PO Box 310
Huntington, Utah 84528

April 6, 1999

COTTONWOOD MSHA IMPOUNDMENT INSPECTIONS

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

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

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

- 30.0 gpm pond discharge. Discharge appears clean.
- Slopes and dam appear stable and unchanged
- Dam outslope rip-rap is intact
- MSHA I.D. sign observed.

Inspection Date: 3/30/99

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:
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ENERGY WEST Mining Co.
PO Box 310
Huntington, Utah 84528

April 23, 1999

COTTONWOOD MSHA IMPOUNDMENT INSPECTIONS

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

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

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

- 19.5 gpm pond discharge. Discharge appears clean.
- Slopes and dam appear stable and unchanged
- Dam outslope rip-rap is intact
- MSHA I.D. sign present.

Inspection Date: 4/22/99

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

cc: Dennis Oakley

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Fax (435) 687-2695
Purchasing Fax (435) 687-9092

Deer Creek Mine:
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ENERGY WEST Mining Co.
PO Box 310
Huntington, Utah 84528

May 19, 1999

COTTONWOOD MSHA IMPOUNDMENT INSPECTIONS

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

- Water elevation is normal
- Slopes and dam appear stable and unchanged. No sign of movement or seeping visible.
- Dam outslope rip-rap is intact
- MSHA I.D. sign present.
- Sediment delta observed.

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

- 17.2 gpm pond discharge. Discharge appears clean.
- Slopes and dam appear stable and unchanged. No sign of movement or seeping visible.
- Vegetation starting to leaf-out on slopes (mainly Tamarix and Erigeron spp.)
- Dam outslope rip-rap is intact
- MSHA I.D. sign present.
- Vegetative filter on pond inlet is working good.

Inspection Date: 5/19/99

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

cc: Dennis Oakley

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(435) 687-9821
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ENERGY WEST Mining Co.
PO Box 310
Huntington, Utah 84528

June 23, 1999

COTTONWOOD MSHA IMPOUNDMENT INSPECTIONS

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

- Water elevation is normal
- Slopes and dam appear stable and unchanged. No sign of movement or seeping visible.
- Dam outslope rip-rap is intact
- MSHA I.D. sign present.
- Sediment delta observed.

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

- 14.3 gpm pond discharge. Discharge is very clean. Mine is idle.
- Slopes and dam appear stable and unchanged. No sign of movement or seeping visible.
- Dam outslope rip-rap is intact
- MSHA I.D. sign present.
- Vegetative filter on pond inlet is working good.

Inspection Date: 6/23/99

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

ENERGY WEST Mining Co.
PO Box 310
Huntington, Utah 84528

July 15, 1999

COTTONWOOD MSHA IMPOUNDMENT INSPECTIONS

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

- No discharge . . . pond is being bypassed for sediment cleaning.
- Slopes and dam appear stable and unchanged.
- Dam outslope rip-rap is intact . . . Discharge from the pump to lower the water level for sediment cleaning is running down and around the rip-rap. . . will monitor erosion.
- MSHA I.D. sign present.

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

- No discharge at this time. Discharge valve was closed to allow the water being pumped over the North Pond dam to have settling time.
- Slopes and dam appear stable and unchanged.
- Dam outslope rip-rap is intact
- MSHA I.D. sign present.

Inspection Date: 7/15/99

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

cc: Dennis Oakley

Huntington Office:
(801) 687-9821
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ENERGY WEST Mining Co.
PO Box 310
Huntington, Utah 84528

August 20, 1999

COTTONWOOD MSHA IMPOUNDMENT INSPECTIONS

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

- Pond is being bypassed to repair bottom leak.
- Slopes and dam appear stable and unchanged.
- Dam outslope rip-rap is intact . . . Bypass discharge is running down and around the rip-rap. Erosion areas should be repaired. Future bypassing of the pond should be piped down to the water level.
- MSHA I.D. sign present.

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

- 22.9 gpm discarge.
- Slopes and dam appear stable and unchanged.
- Dam outslope rip-rap is intact
- MSHA I.D. sign present.

Inspection Date: 8/20/99

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

cc: Dennis Oakley
Chuck Semborski
John Christensen

Huntington Office:
(801) 687-9821
Fax (801) 687-2695
Purchasing Fax (801) 687-9092

Deer Creek Mine:
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ENERGY WEST Mining Co.
PO Box 310
Huntington, Utah 84528

September 15, 1999

COTTONWOOD MSHA IMPOUNDMENT INSPECTIONS

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

- Leak repaired. Water at normal elevation.
- Slopes and dam appear stable and unchanged.
- Dam outslope rip-rap is intact. Erosion areas should be repaired from midway of slope to the water elevation. Future bypassing of the pond should be piped down to the water level.
- Vegetation on outslope is blooming and well.
- MSHA I.D. sign present.

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

- 60.0 gpm discarge.
- Slopes and dam appear stable and unchanged.
- Dam outslope rip-rap is intact
- MSHA I.D. sign present.
- Vegetative filter at inlet is functioning well.

Inspection Date: 9/15/99

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

cc: Dennis Oakley
Chuck Semborski
John Christensen

Huntington Office:
(801) 687-9821
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Purchasing Fax (801) 687-9092

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ENERGY WEST Mining Co.
PO Box 310
Huntington, Utah 84528

October 15, 1999

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. Erosion areas, from bypassing, are evident.
- MSHA I.D. sign present.

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

- 25.0 gpm discarge. It appears to be clear and free of sediment.
- Slopes and dam appear stable and unchanged.
- Dam outslope rip-rap is intact
- MSHA I.D. sign present.
- Vegetative filter at inlet is functioning well.

Inspection Date: 10/15/99

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

cc: Dennis Oakley

Huntington Office:
(801) 687-9821
Fax (801) 687-2695
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Deer Creek Mine:
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ENERGY WEST Mining Co.
PO Box 310
Huntington, Utah 84528

November 23, 1999

COTTONWOOD MSHA IMPOUNDMENT INSPECTIONS

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

- Pond is frozen
- Water at normal elevation.
- Sediment delta starting to form
- Slopes and dam appear stable and unchanged.
- Dam outslope rip-rap is intact. Erosion areas, from bypassing, are evident.
- MSHA I.D. sign present.

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

- Pond is frozen
- 32.0 gpm discarge. 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: 11/23/99

Inspector: Guy Davis

Guy Davis
MSHA Qualified Impoundment Inspector / Instructor

cc: Dennis Oakley

Huntington Office:
(801) 687-9821
Fax (801) 687-2695
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ENERGY WEST Mining Co.
PO Box 310
Huntington, Utah 84528

December 20, 1999

COTTONWOOD MSHA IMPOUNDMENT INSPECTIONS

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

- Pond is frozen
- Water at normal elevation.
- Sediment delta starting to form
- Slopes and dam appear stable and unchanged.
- Dam outslope rip-rap is intact. Erosion areas, from bypassing, are evident.
- MSHA I.D. sign present.

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

- Pond is frozen
- 48.1 gpm discharge. 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: 12/20/99

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
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Cottonwood Mine:
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DES BEE DOVE MINE

SEDIMENT POND REPORTS

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			Page 1 of 3
Permit Number	ACT/015/017	**Report Date**	April 13, 1999
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	3/16/99
Inspected By	Rick Cullum/John Christensen
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	1st Quarter 1999 Inspection

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

Shows no visible sign 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	6758.17
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
Remaining Sediment **Storage Capacity:**	2.0
Water Impoundment:	3.20 A.F.
Changes or Comments:	Pond is 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 Chote **Date:** 4/15/99

Signature: Richard Cullum **Date:** 4/15/99

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			Page 1 of 3
Permit Number	ACT/015/017	Report Date	JUNE 15, 1999
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	6/11/99
Inspected By	Rick Cullum/John Christensen
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	2ND Quarter 1999 Inspection

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

Shows no visible sign 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	6757.59
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:	0.20
Remaining Sediment	1.80
Storage Capacity:	2.0
Water Impoundment:	2.34 A.F.
Changes or Comments:	Pond is 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 Chart **Date:** 7/8/99

Signature: Richard Cullum **Date:** 7-9-99

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			Page 1 of 3
Permit Number	ACT/015/017	Report Date	Sept. 28, 1999
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	9/20/99
Inspected By	Rick Cullum/John Christensen
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Third Quarter 1999 Inspection

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

Shows no visible sign 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	6759.14
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:	**3.45** A.F.

Changes or Comments: Pond is 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 ins| ections 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 Unterseher **Date:** 9/28/99

Signature: Richard Cullum **Date:** 9-29-99

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			Page 1 of 3
Permit Number	ACT/015/017	Report Date	Dec. 16, 1999
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	12/8/99
Inspected By	Rick Cullum/John Christensen
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Fourth Quarter 1999 Inspection

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

Shows no visible sign 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	6758.09 Top of ice
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:	**2.55** A.F.

Changes or Comments: Pond is functioning normally at this time

Qualification Statement

CHRISTENSEN PROFESSIONAL ENGINEER No. 165651 STATE OF UTAH

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:** 12/16/99

Signature: Richard Cullum **Date:** 12-16-99

TRAIL MOUNTAIN MINE

SEDIMENT POND REPORTS

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			Page 1 of 3
Permit Number	ACT/015/009	**Report Date**	April 13, 1999
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	March 23, 1999
Inspected By	John Christensen / Rick Cullum
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	1ST Quarter 1999 Inspection

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

No unstable or structural weaknesses found.
Pond is frozen over with ice.

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 clean out, pond decanting, embankment erosion/repairs, monitoring information, vegetation on out slopes of embankments, etc.

Water Elevation	7188.15
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	0.23 A.F.
Remaining Sediment Storage Capacity	0.24 A.F.
Water Impounded	0.67 A.F.

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:** 4/15/99
Signature: Richard Cullimore **Date:** 4/15/99

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/015/009	**Report Date**	June 15, 1999
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 11, 1999
Inspected By	John Christensen / Rick Cullum
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	2nd Quarter 1999 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.

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 clean out, pond decanting, embankment erosion/repairs, monitoring information, vegetation on out slopes of embankments, etc.

Water Elevation	7188.50
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 pond is Scheduled to cleaned 3rd quarter 1999.

Sediment Volume	0.34 A.F.
Remaining Sediment Storage Capacity	0.13 A.F.
Water Impounded	0.65 A.F.

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 Thornton **Date:** 7/8/99
Signature: Richard Cullum **Date:** 7-9-99

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/015/009	Report Date	Sept. 28, 1999
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. 24, 1999
Inspected By	John Christensen / Rick Cullum
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Third Quarter 1999 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.**

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/instrumentaltion 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	7186.80
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 pond will be Cleaned in October. At that time some minor erosion of the inlet will be repaired.

Sediment Volume	0.34 A.F.
Remaining Sediment Storage Capacity	0.13 A.F.
Water Impounded	0.56 A.F.

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 Contreras Date: 9/28/99
Signature: Richard Cullum Date: 9-29-99

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/015/009	**Report Date**	Dec. 16, 1999
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	Dec. 14, 1999
Inspected By	John Christensen / Rick Cullum
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Fourth Quarter 1999 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.

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	7183.82 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	0.44 A.F.
Changes, comments, ect.	Pond was cleaned in Oct. 99

Qualified Statement

LICENSED PROFESSIONAL ENGINEER JOHN CHRISTENSEN No. 165651 STATE OF UTAH

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:** 12/16/99
Signature: Richard Cullum **Date:** 12-16-99

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

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.

CONTENTS

VEGETATION FIELD WORK 1999

VEGETATION MONITORING LOCATIONS MAP

HYDROLOGIC MONITORING 1999

RAPTOR SURVEY 1999

FOR A DETAILED REPORT OF TECHNICAL DATA, SEE THE FOLLOWING REPORTS:

1999 VEGETATION REPORT
1999 HYDROLOGY REPORT
1999 SUBSIDENCE REPORT

VEGETATION MONITORING LOCATIONS

Vegetation Field Work for 1999
April 1 - September 31, 1999

Services rendered by Mt. Nebo Scientific: Qualitative and/or quantitative sampling for cover, cover by species, density, frequency and productivity as required by the Division of Oil, Gas and Mining for the areas listed below.

	Qual.	Cover	Freq.	Density	Prod.
Cottonwood Mine Area					
Old Fan Road	✓	✓	✓		
Reference Area	✓	✓	✓		
4th East Road	✓	✓	✓		
Storage Yard Slope	✓	✓	✓		
Parking Lot Slope	✓	✓	✓		
Road/Silo Pad Slope	✓	✓	✓		
Tipple Area Slopes	✓	✓	✓		
Sediment Pond Banks	✓	✓	✓		
9th East Road Breakout	✓	✓	✓		
Test Plots '88	✓	✓	✓	✓	
Waste Rock (Old) Cell 1	✓	✓	✓	✓	✓
Waste Rock (Old) Cell 2	✓	✓	✓	✓	✓
Waste Rock (Old) Cell 3	✓	✓	✓	✓	✓
Waste Rock (Old) Cell 4	✓	✓	✓	✓	✓
Waste Rock (Old) Cell 5	✓	✓	✓	✓	✓
Waste Rock (Old) Cell 6	✓	✓	✓	✓	✓
Waste Rock (Old) Cell 7	✓	✓	✓	✓	✓
Waste Rock (Old) Berm 1	✓	✓	✓	✓	✓
Waste Rock (Old) Berm 2	✓	✓	✓	✓	✓
Waste Rock (Old) Berm 3	✓	✓	✓	✓	✓
Waste Rock (Old) Berm 4	✓	✓	✓	✓	✓
CTW WRS Reference Area	✓	✓	✓	✓	✓
CTW WRS Topsoil Pile (A, C)	✓	✓	✓		
Waste Rock (New) Road Slopes	✓	✓	✓		
Waste Rock (New) Topsoil Stockpiles	✓	✓	✓		
Waste Rock (New) Subsoil Stockpiles	✓	✓	✓		
Waste Rock (New) Sediment Pond Banks	✓	✓	✓		
Refuse Berm 1991	✓	✓	✓	✓	
Refuse Berm 1994	✓	✓	✓	✓	
Refuse Berm 1996	✓	✓	✓	✓	

	Qual.	Cover	Freq.	Density	Prod.
Cottonwood Canyon					
Subsoil Piles ('81)	✓	✓	✓		
Fan Portal Reclaimed Slope ('81)	✓	✓	✓		
Fan Portal Reference Area	✓	✓	✓		
Tube Conveyor	✓	✓	✓		
Belt Portal ('96)	✓	✓	✓		
Diesel Portal ('96)	✓	✓	✓		
Reclaimed Slope ('98 Final Reclamation)	✓	✓	✓		
Des Bee Dove					
Beehive Yard Slope	✓				
Beehive Road Berm	✓				
Deseret Road Berm	✓				
Portal Road Berm	✓				
Bathhouse Road Berm	✓				
Tipple Slope	✓				
Sediment Storage Slope	✓				
Sediment Pond Banks	✓				
Beehive Yard Slope (reseed area '97)	✓				
Beehive Substation Slope	✓				
Sediment Pond Area	✓				
Bathhouse Slope	✓				
Material Yard Slope	✓				
Test Plots ('89)	✓				
Subsoil Pile a Sed. Pond Jan '98	✓				
Deer Creek Mine					
Reference Area	✓				
C2 Conveyor (IU 132 - 190) '93	✓				
Riparian Areas	✓				
Sediment Pond Dam	✓				
Temporary Sediment Basin	✓				
Roadside Areas	✓				
Gate Areas Slope	✓				
Fan Road Slopes	✓				
Refuse Pile and Berm	✓				
Water Plant Slope	✓				
Pipeline	✓				
Deer Canyon	✓				
Rock Slide and Berm ('88)	✓				

	Qual	Cover	Freq	Density	Prod
Waste Rock Site					
Reference Area	✓				
Access Road Slopes	✓				
Phase I Berm	✓				
Phase I Diversion	✓	✓	✓	✓	✓
Drain Field Reconstruction	✓				
Field Drains Dec. '97	✓				
Trail Mountain Mine					
Reference Area	✓				
Sediment Pond Outslope	✓				
Parking Extension '96	✓				
Rilda Canyon					
Pad Area Slopes '96	✓				
Roadway Slopes '96	✓				
Topsoil Pile '95	✓				

VEGETATION MONITORING LOCATIONS MAP

HYDROLOGIC MONITORING LOCATIONS

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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 Drainage System	Cottonwood Canyon Creek	SW1	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
		SW2	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
		CCC01	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field
		SW3	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
	Grimes Wash	GWR01	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
		GWR02	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
		GWR03	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
	Straight Canyon	T-19	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
Huntington Drainage System	Deer Creek	DCR01	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
		DCR04	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
		DCR06	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
	Huntington Creek	HCC01	Flow *	Flow *	Operational*	Flow *	Flow *	Operational*	Flow *	Flow *	Operational*	Flow *	Flow *	Operational*
		HCC02			Operational*			Operational*			Operational*			Operational*
		HCC04			Operational*			Operational*			Operational*			Operational*
		* Flow in Huntington Creek is measured @ HCC01 by Utah Power, and will be reported in the Annual Hydrologic Report												
	Meetinghouse Canyon	MCH01	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
	Rilda Canyon	RCF1*	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
		RCLF1	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field
		RCLF2	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field
		RCF2	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field
		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
		* Baseline flow will be measured adjacent to EM-163												
	Mill Fork Canyon	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
		Mill Fork Canyon Baseline Sampling Will Be Conducted From 4th Quarter 1998 Through 4th 2000 Quarter												

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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	*East Mountain*								Operational	Flow *	Flow *	Operational		
										* Recession Springs				
	East Mountain-Rilda Canyon		Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
	Trail Mountain								Operational	Flow	Flow	Operational		
In-Mine	*Cottonwood*				Operational			Operational			Operational			Operational
	Deer Creek				Operational			Operational			Operational			Operational
	Trail Mountain				Operational			Operational			Operational			Operational
	Oliphant	T-18			Operational			Operational			Operational			Operational
Wells	*Cottonwood Waste Rock Well*				Operational			Operational			Operational			Operational
	Cottonwood Canyon Wells		Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level
	(includes Straight Canyon TM-3)													
	Deer Creek Waste Rock Well				Operational			Operational			Operational			Operational
	Deer Creek In-Mine Well				Level			Level			Level			Level
	Rilda Canyon Wells		Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level
	Trail Mountain (TM-1B)		Level	Level	Operational	Level	Level	Operational	Level	Level	Operational	Level	Level	Operational

UPDES SAMPLING - (Table 1)

			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mine Water Discharge	*Cottonwood*	WMD01	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational
		Miller	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational
	Deer Creek	DCD	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational
	Trail Mountain	TMD	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational
Sediment Pond Discharge	*Cottonwood*	3 Outfalls	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational
	Deer Creek	1 Outfall	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational
	Des-Bee-Dove	1 Outfall	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational
	Trail Mtn	1 Outfall	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational

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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 Drainage System	*Cottonwood Canyon Creek*	SW1	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
		SW2	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
		CCC01	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field
		SW3	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
	Grimes Wash	GWR01	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
		GWR02	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
		GWR03	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
	Straight Canyon	T-19	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
Huntington Drainage System	*Deer Creek*	DCR01	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
		DCR04	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
		DCR06	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
	Huntington Creek	HCC01	Flow *	Flow *	Baseline*	Flow *	Flow *	Baseline*	Flow *	Flow *	Baseline*	Flow *	Flow *	Baseline*
		HCC02			Baseline*			Baseline*			Baseline*			Baseline*
		HCC04			Baseline*			Baseline*			Baseline*			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	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
	Rilda Canyon	RCF1*	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
		RCLF1	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field
		RCLF2	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field
		RCF2	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field
		RCF3	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
		RCW4	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
		* Baseline flow will be measured adjacent to EM-163												
	Mill Fork Canyon	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

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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	*East Mountain*								Baseline	Flow *	Flow *	Baseline		
										* Recession Springs				
	East Mountain-Rilda Canyon		Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
	Trail Mountain								Baseline	Flow	Flow	Baseline		
In-Mine	*Cottonwood*				Baseline			Baseline			Baseline			Baseline
	Deer Creek				Baseline			Baseline			Baseline			Baseline
	Trail Mountain				Baseline			Baseline			Baseline			Baseline
	Oliphant	T-18			Baseline			Baseline			Baseline			Baseline
Wells	*Cottonwood Waste Rock Well*				Baseline			Baseline			Baseline			Baseline
	Cottonwood Canyon Wells		Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level
	(includes Straight Canyon TM-3)													
	Deer Creek Waste Rock Well				Baseline			Baseline			Baseline			Baseline
	Deer Creek In-Mine Well				Level			Level			Level			Level
	Rilda Canyon Wells		Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level
	Trail Mountain (TM-1B)		Level	Level	Baseline	Level	Level	Baseline	Level	Level	Baseline	Level	Level	Baseline

UPDES SAMPLING - (Table 1)

			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mine Water Discharge	*Cottonwood*	WMD01	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational
		Miller	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational
	Deer Creek	DCD	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational
	Trail Mountain	TMD	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational
Sediment Pond Discharge	*Cottonwood*	3 Outfalls	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational
	Deer Creek	1 Outfall	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational
	Des-Bee-Dove	1 Outfall	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational
	Trail Mtn	1 Outfall	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational

1999 RAPTOR SURVEY

State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WILDLIFE RESOURCES

Michael O. Leavitt
Governor
Kathleen Clarke
Executive Director
John Kimball
Division Director

Southeastern Region
475 West Price River Drive, Suite C
Price, Utah 84501-2860
435-636-0260
435-637-7361 (Fax)

19 August, 1999

Energy West
Bob Willey
PO Box 310
Huntington, UT 84528

Dear Bob,

We appreciated being able to work with you on the Energy West Raptor Survey on May 15 and 18, 1999. Thank you for your compliance in the raptor survey regulations. Below is a summary of the survey findings (table 1). Enclosed you will find the database, as well as the maps of the areas surveyed. Nests and helicopter flight lines are marked on the maps. Please notice that nests which were not surveyed and/or not found were included in these data. The status of these nests are listed as "Not Surveyed" or "Not Found."

Table 1. Energy West 1999 Raptor Survey Results

Species	*Nest Status*	*Count*	*Nest Number*
Golden Eagle	Active	3	46, 752, 753
	Tended	4	44, 79, 754, 756
	Inactive	24	45, 52, 53, 54, 56, 57, 58, 63, 65, 66, 67, 69, 70, 71, 72, 73, 74, 78, 80, 743, 744, 747, 751, 755
	Old/Dilapidated	2	59, 81
	Not Found	4	55, 62, 68, 75
	Not Surveyed	8	43, 47, 49, 51, 60, 61, 76, 80
Prairie Falcon	Inactive	1	64
Red-tailed Hawk	Active	1	749
	Inactive	1	757
	Old/Dilapidated	1	756
	Not Surveyed	1	50

Sincerely,

Miles Moretti
Regional Supervisor

1999 Raptor Survey
Energy West

NEST_NO	X	Y	ID	YR	DATE	SPECIES	TYPE	STATUS	EGG	YNG	AGE	COMPANY
99_ 42	476679	4349811	3	1999	05/15/1999	Falcon	Cliff	Not Surveyed	99	99	99	Energy West
99_ 43	476689	4349072	4	1999	05/15/1999	Golden Eagle	Cliff	Not Surveyed	99	99	99	Energy West
99_ 44	477014	4352502	8	1999	05/18/1999	Golden Eagle	Cliff	Tended	0	0	0	Energy West
99_ 45	477048	4352502	9	1999	05/18/1999	Golden Eagle	Cliff	Inactive	0	0	0	Energy West
99_ 46	477287	4353355	4	1999	05/18/1999	Golden Eagle	Cliff	Active	0	1		Energy West
99_ 47	478582	4358226	8	1999	05/15/1999	Golden Eagle	Cliff	Not Surveyed	99	99	99	Energy West
99_ 48	478556	4358180	9	1999	05/15/1999	Raven	Cliff	Not Surveyed	99	99	99	Energy West
99_ 49	475984	4363114	10	1999	05/15/1999	Golden Eagle	Cliff	Not Surveyed	99	99	99	Energy West
99_ 50	474965	4357100	11	1999	05/15/1999	Redtail Hawk	Cliff	Not Surveyed	99	99	99	Energy West
99_ 51	474964	4356174	12	1999	05/15/1999	Golden Eagle	Cliff	Not Surveyed	99	99	99	Energy West
99_ 52	477281	4348713	28	1999	05/18/1999	Golden Eagle	Cliff	Inactive	0	0	0	Energy West
99_ 53	477943	4348824	29	1999	05/18/1999	Golden Eagle	Cliff	Inactive	0	0	0	Energy West
99_ 54	478446	4348825	31	1999	05/18/1999	Golden Eagle	Cliff	Inactive	0	0	0	Energy West
99_ 55	482752	4346705	1	1999	05/18/1999	Golden Eagle	Cliff	Not Found	99	99	99	Energy West
99_ 56	480765	4347780	11	1999	05/18/1999	Golden Eagle	Cliff	Inactive	0	0	0	Energy West
99_ 57	481249	4347425	12	1999	05/18/1999	Golden Eagle	Cliff	Inactive	0	0	0	Energy West
99_ 58	481649	4347462	13	1999	05/18/1999	Golden Eagle	Cliff	Inactive	0	0	0	Energy West
99_ 59	481976	4347529	14	1999	05/18/1999	Golden Eagle	Cliff	Old/Dilapidated	0	0	0	Energy West
99_ 60	494525	4351313	3	1999	05/15/1999	Golden Eagle	Cliff	Not Surveyed	99	99	99	Energy West
99_ 61	492763	4352180	4	1999	05/15/1999	Golden Eagle	Cliff	Not Surveyed	99	99	99	Energy West
99_ 62	489801	4351796	19	1999	05/18/1999	Golden Eagle	Cliff	Not Found	99	99	99	Energy West
99_ 63	489365	4352546	18	1999	05/18/1999	Golden Eagle	Cliff	Inactive	0	0	0	Energy West
99_ 64	483261	4352057	35	1999	05/18/1999	Prairie Falcon	Cliff	Inactive	0	0	0	Energy West
99_ 65	482178	4355593	38	1999	05/18/1999	Golden Eagle	Cliff	Inactive	0	0	0	Energy West
99_ 66	482072	4355526	37	1999	05/18/1999	Golden Eagle	Cliff	Inactive	0	0	0	Energy West
99_ 67	482603	4354858	39	1999	05/18/1999	Golden Eagle	Cliff	Inactive	0	0	0	Energy West
99_ 68	483902	4353238	40	1999	05/18/1999	Golden Eagle	Cliff	Not Found	99	99	99	Energy West
99_ 69	484471	4351455	21	1999	05/18/1999	Golden Eagle	Cliff	Inactive	0	0	0	Energy West
99_ 70	485503	4351225	26	1999	05/18/1999	Golden Eagle	Cliff	Inactive	0	0	0	Energy West
99_ 71	485378	4351633	25	1999	05/18/1999	Golden Eagle	Cliff	Inactive	0	0	0	Energy West
99_ 72	485165	4351588	24	1999	05/18/1999	Golden Eagle	Cliff	Inactive	0	0	0	Energy West
99_ 73	485006	4351636	23	1999	05/18/1999	Golden Eagle	Cliff	Inactive	0	0	0	Energy West
99_ 74	484890	4351626	22	1999	05/18/1999	Golden Eagle	Cliff	Inactive	0	0	0	Energy West
99_ 75	487736	4349893	20	1999	05/18/1999	Golden Eagle	Cliff	Not Found	99	99	99	Energy West

1999 Ra[illegible] Survey
Energy West

NEST_NO	QUAD	COMMENTS
99_ 42	JoesVallyRes	Elev-7173; Status in 1998=Old/Dilapidated
99_ 43	JoesVallyRes	Elev-8935; Status in 1998=Old/Dilapidated
99_ 44	JoesVallyRes	7500' Greenery, further north than ID #9
99_ 45	JoesVallyRes	7500' Further south than ID # 8
99_ 46	JoesVallyRes	7800' Hen was on the nest
99_ 47	RildaCyn	Elev-8876; Status in 1998=Active
99_ 48	MahoganyPt	Elev-8695; Status in 1998=Active
99_ 49	STentMtn	Elev-8470; Status in 1998=Inactive
99_ 50	JoesVallyRes	Elev-8230; Status in 1998=Active
99_ 51	JoesVallyRes	Elev-7878; Status in 1998=Inactive
99_ 52	JoesVallyRes	7200' 3 nests found here, 2 new nests and 1 known
99_ 53	JoesVallyRes	.
99_ 54	MahoganyPt	.
99_ 55	MahoganyPt	not found
99_ 56	MahoganyPt	7500' Nest in a large horizontal pocket
99_ 57	MahoganyPt	7500'
99_ 58	MahoganyPt	7500'
99_ 59	MahoganyPt	7500' No nesting material left, very small pocket
99_ 60	RedPt	Elev-7995; Status in 1998=Inactive
99_ 61	RedPt	Elev-8271; Status in 1998=Inactive
99_ 62	RedPt	not found
99_ 63	RedPt	8500'
99_ 64	MahoganyPt	Double check with historical records, no bird seen
99_ 65	MahoganyPt	.
99_ 66	MahoganyPt	.
99_ 67	MahoganyPt	moss growing in nest
99_ 68	MahoganyPt	not found
99_ 69	MahoganyPt	.
99_ 70	MahoganyPt	2 nests next to each other, 10' north of ID #27
99_ 71	MahoganyPt	.
99_ 72	MahoganyPt	.
99_ 73	MahoganyPt	.
99_ 74	MahoganyPt	.
99_ 75	MahoganyPt	not found

STATE OF UTAH
NATURAL RESOURCES
Division of Wildlife Resources

1999 Raptor Survey
Energy West

NEST_NO	X	Y	ID	YR	DATE	SPECIES	TYPE	STATUS	EGG	YNG	AGE	COMPANY
99_ 76	489375	4359798	21	1999	05/15/1999	Golden Eagle	Cliff	Not Surveyed	99	99	99	Energy West
99_ 77	486094	4362049	22	1999	05/15/1999	Falcon	Cliff	Not Surveyed	99	99	99	Energy West
99_ 78	484600	4365349	41	1999	05/18/1999	Golden Eagle	Cliff	Inactive	0	0	0	Energy West
99_ 79	486275	4364567	42	1999	05/18/1999	Golden Eagle	Cliff	Tended	0	0	0	Energy West
99_ 80	486275	4364567	43	1999	05/18/1999	Golden Eagle	Cliff	Inactive	0	0	0	Energy West
99_ 80	487129	4364303	25	1999	05/15/1999	Golden Eagle	Cliff	Not Surveyed	99	99	99	Energy West
99_ 81	487376	4364333	44	1999	05/18/1999	Golden Eagle	Cliff	Old/Dilapidated	0	0	0	Energy West
99_ 743	480557	4346701	2	1999	05/18/1999	Golden Eagle	Cliff	Inactive	0	0	0	Energy West
99_ 744	476608	4348535	3	1999	05/18/1999	Golden Eagle	Cliff	Inactive	0	0	0	Energy West
99_ 745	478618	4358382	5	1999	05/18/1999	Raven	Cliff	Active	99	99	99	Energy West
99_ 747	478296	4356290	7	1999	05/18/1999	Golden Eagle	Cliff	Inactive	0	0	0	Energy West
99_ 748	480192	4348181	10	1999	05/18/1999	Raven	Cliff	Inactive	0	0	0	Energy West
99_ 749	494664	4351148	15	1999	05/18/1999	Redtail Hawk	Cliff	Active	99	99	99	Energy West
99_ 750	494494	4351244	16	1999	05/18/1999	Raven	Cliff	Inactive	0	0	0	Energy West
99_ 751	492814	4352191	17	1999	05/18/1999	Golden Eagle	Cliff	Inactive	0	0	0	Energy West
99_ 752	488734	4351383	19	1999	05/18/1999	Golden Eagle	Cliff	Active	0	2		Energy West
99_ 753	488755	4351389	27	1999	05/18/1999	Golden Eagle	Cliff	Active	99	99	99	Energy West
99_ 754	478403	4348786	30	1999	05/18/1999	Golden Eagle	Cliff	Tended	0	0	0	Energy West
99_ 755	480822	4347748	32	1999	05/18/1999	Golden Eagle	Cliff	Inactive	0	0	0	Energy West
99_ 756	478560	4358140	6	1999	05/18/1999	Redtail Hawk	Cliff	Old/Dilapidated	0	0	0	Energy West
99_ 756	481280	4347416	33	1999	05/18/1999	Golden Eagle	Cliff	Tended	0	0	0	Energy West
99_ 757	481824	4347491	34	1999	05/18/1999	Redtail Hawk	Cliff	Inactive	0	0	0	Energy West
99_ 758	480716	4356447	36	1999	05/18/1999	Raven	Cliff	Inactive	0	0	0	Energy West

STATE OF UTAH
NATURAL RESOURCES
Division of Wildlife Resources

1999 Ra[illegible] Survey
Energy West

NEST_NO	QUAD	COMMENTS
99_ 76	Hiawatha	Elev-8865; Status in 1998=Tended
99_ 77	RildaCyn	Elev-8860; Status in 1998=Inactive
99_ 78	RildaCyn	.
99_ 79	RildaCyn	greenery
99_ 80	RildaCyn	2 nests, 1 old/dilapidated nest 30'east of #80
99_ 80	RildaCyn	Elev-7865; Status in 1998=Old/Dilapidated
99_ 81	RildaCyn	not found
99_ 743	MahoganyPt	7400' This nest could possibly be nest #55 which did not fine
99_ 744	JoesVallyRes	7200' Point overlooking resevoir and Joe's Valley Dam
99_ 745	RildaCyn	8800' Bird on nest, Possisibly nest #48
99_ 747	JoesVallyRes	8500' Add on offset of 70'to the North for the distance
99_ 748	MahoganyPt	7500'
99_ 749	RedPt	7800'
99_ 750	RedPt	7800'
99_ 751	RedPt	8000' Possibly nest #61 or #347
99_ 752	MahoganyPt	8600' hen on the nest, Distance offset 120'to the North
99_ 753	MahoganyPt	Hen on the nest, 10' sout of ID #26
99_ 754	JoesVallyRes	7200' Recorded as #54 in the GPS. Likely a new nst because of little nesting material
99_ 755	MahoganyPt	7500' Double check offset to make sure its over 100' & not 2'
99_ 756	MahoganyPt	8800'
99_ 756	MahoganyPt	7500' Greenery, GPS twice as 32, delete the first one
99_ 757	MahoganyPt	GPS as Point #32, will have 4 - #32 GPS points, #1 is 32, #2 is delete, #3 is 33, #4 is 34
99_ 758	MahoganyPt	8400'

STATE OF UTAH
NATURAL RESOURCES
Division of Wildlife Resources

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.

CONTENTS

OFFICER LIST AS OF 12/31/99

NOV LIST THROUGH 1999

CERTIFICATES OF LIABILITY

MODIFICATION OF LEASE U-06039

CORPORATE OFFICER LIST

DIRECTORS AND OFFICERS OF SCOTTISH POWER AND NEW SCOTTISH POWER

The directors and officers[1] of each of Scottish Power and New Scottish Power are as follows:

Name	Position	Address and Telephone Number	Date Elected	Term Expires[2]
Charles Murray Stuart CBE	Chairman (non-executive)	1 Atlantic Quay Glasgow, Scotland G2 8SP	3/90	No fixed term
Sir Ian Robinson	Chief Executive	1 Atlantic Quay Glasgow, Scotland G2 8SP	3/95	No fixed term
Ian Simon MacGregor Russell	Deputy Chief Executive	1 Atlantic Quay Glasgow, Scotland G2 8SP	4/94	No fixed term
Kenneth Leslie Vowles	Executive Director UK Power Operations	1 Atlantic Quay Glasgow, Scotland G2 8SP	9/94	No fixed term
Charles Berry	Executive Director, Customer Sales and Services	1 Atlantic Quay Glasgow, Scotland G2 8SP	4/99	No fixed term
Alan V. Richardson	Chief Executive Officer, PacifiCorp	825 NE Multnomah, Suite 2000 Portland, OR 97232	11/29/99	No fixed term
David Thomas Nish	Executive Director, Finance Director	1 Atlantic Quay Glasgow, Scotland G2 8SP	12/13/99	No fixed term
Mair Barnes	Non-executive Director	1 Atlantic Quay Glasgow, Scotland G2 8SP	4/98	2001
Sir Peter Lewis Gregson GCB	Non-executive Director	1 Atlantic Quay Glasgow, Scotland G2 8SP	12/96	2000

[1] All officers of these entities are also directors.

[2] The Executive Directors do not have fixed terms. The Articles of Association of Scottish Power provide for one-third of the directors to retire and seek re-election every three years and those of New Scottish Power require each director to seek re-election every three years.

Charles Miller Smith	Deputy Chairman	1 Atlantic Quay Glasgow, Scotland G2 8SP	8/1/99	2003
Ewen Cameron Stewart Macpherson	Non-executive Director	1 Atlantic Quay Glasgow, Scotland G2 8SP	9/96	2000
John Parnaby CBE	Non-executive Director	1 Atlantic Quay Glasgow, Scotland G2 8SP	9/94	2001
Keith R. McKennon	Deputy Chairman (non-executive)	1540 SW Vista, #3000 Portland, OR 97201	11/29/99	2001
Nolan E. Karras	Director (non-executive)	4695 South 1900 West #3 Roy, UT 84067	11/29/99	2001
Robert G. Miller	Director (non-executive)	0305 SW Montgomery #F508 Portland, OR 97201	11/29/99	2001

DIRECTORS AND OFFICERS OF SCOTTISH POWER NA1 AND SCOTTISH POWER NA2

The directors and officers of Scottish Power NA1 and Scottish Power NA2 are as follows:

Name	Position	Address and Telephone Number	Date Elected	Term Expires
Andrew Ross Mitchell	Executive Director	1 Atlantic Quay Glasgow, Scotland G2 85P	11/25/98	No fixed term
David Thomas Nish	Executive Director	1 Atlantic Quay Glasgow, Scotland G2 85P	11/25/98	No fixed term
Ian Simon MacGregor Russell	Executive Director	1 Atlantic Quay Glasgow, Scotland G2 85P	12/1/98	No fixed term
Rupert James Stanley	Executive Director	1 Atlantic Quay Glasgow, Scotland G2 85P	11/25/98	No fixed term

DIRECTORS AND OFFICERS OF NA GENERAL PARTNERSHIP

There are no officers or directors of NA General Partnership.

PACIFICORP'S DIRECTORS AND OFFICERS

PacifiCorp's Directors

Name	Position	Address and Telephone Number	Date Elected	Term Expires
Richard T. O'Brien	Director	825 NE Multnomah, Suite 2000 Portland, OR 97232	11/29/99	Annual Elections are held in May of each year
Henry H. Hewitt	Director	825 NE Multnomah, Suite 2000 Portland, OR 97232	11/29/99	
Nolan E. Karras	Director	The Karras Company, Inc. 4695 South 1900 West, #3 Roy, UT 84067	2/17/93	
William D. Landels	Director	201 South Main, Suite 2300 Salt Lake City, UT 84140	11/29/99	
Keith R. McKennon	Director	1540 SW Vista, #3000 Portland, OR 97201	11/28/90	
Robert G. Miller	Director	0305 SW Montgomery, #F508 Portland, OR 97201	8/10/94	
Alan V. Richardson	Director	825 NE Multnomah, Suite 2000 Portland, OR 97232	11/29/99	
Sir Ian Robinson	Director, Chair	1 Atlantic Quay Glasgow, Scotland G2 8SP	11/29/99	
Ian M. Russell	Director	1 Atlantic Quay Glasgow, Scotland G2 8SP	11/29/99	
Kenneth L. Vowles	Director	1 Atlantic Quay Glasgow, Scotland G2 8SP	11/29/99	

PacifiCorp's Officers

Name	Position	Address and Telephone Number	Date Elected	Term Expires
Alan V.Richardson	Chief Executive Officer	825 NE Multnomah, Suite 2000 Portland, OR 97232 503 813 7101	11/29/99	Annual Elections are held in May of each year
Richard T. O'Brien	President & Chief Operating Officer	825 NE Multnomah, Suite 2000 Portland, OR 97232 503 813 7218	11/29/99	
Sir Ian Robinson	Chairman	1 Atlantic Quay Glasgow, Scotland G2 8SP	11/29/99	
William D. Landels	Executive Vice President	201 South Main, Suite 2300 Salt Lake City, UT 84140	11/29/99	
Paul G. Lorenzini	Senior Vice President	Locked Bag 14090 Melbourne City Mail Centre Melbourne, VIC 8001 011 613 9679 4569	5/27/94	
Henry H. Hewitt	Exec Vice President	825 NE Multnomah, Suite 2000 Portland, OR 97232 503 813 7201	07/16/99	
Barry G. Cunningham	Vice President	201 South Main, Suite 2300 Salt Lake City, UT 84140 801 220 4589	5/12/99	
Anne E. Eakin	Vice President	Locked Bag 14090 Melbourne City Mail Centre Melbourne, VIC 8001	2/12/97	
Donald N. Furman	Vice President	700 NE Multnomah, Suite 550 Portland, OR 97232 503 813 5525	5/1/97	
Thomas J. Imeson	Vice President	825 NE Multnomah, Suite 2000 Portland, OR 97232 503 813 7231	11/28/90	
Craig N. Longfield	Vice President	825 NE Multnomah, Suite 1900 Portland, OR 97232 503 813 5659	5/12/99	
Timothy E. Meier	Vice President	825 NE Multnomah, Suite 700 Portland, OR 97232 503 813 6388	9/2/97	

Name	Position	Address and Telephone Number	Date Elected	Term Expires
C. Alex Miller	Vice President	825 NE Multnomah, Suite 2000 Portland, Oregon 97232 503 813 7263	11/09/99	
William E. Peressini	Vice President & Treasurer	825 NE Multnomah, Suite 1900 Portland, OR 97232 503 813 5664	5/7/96	
Michael J. Pittman	Vice President	825 NE Multnomah, Suite 1800 Portland, OR 97232 503 813 5005	5/19/93	
Brian D. Sickels	Vice President	825 NE Multnomah, Suite 600 Portland, OR 97232 503 813 7227	11/26/94	
A. Richard Walje	Vice President	825 NE Multnomah, Suite 1700 Portland, OR 97232 503 813 6255	11/19/98	
Ernest E. Wessman	Vice President	201 South Main, Suite 2100 Salt Lake City, UT 84140 801 220 4705	5/19/93	
Richard D. Westerberg	Vice President	201 South Main, Suite 2300 Salt Lake City, UT 84140 801 220 4430	2/21/90	
Lenore M. Martin	Corporate Secretary	825 NE Multnomah, Suite 2000 Portland, OR 97232 503 813 7209	5/1/99	
Robert R. Dalley	Controller	825 NE Multnomah, Suite 2000 Portland, OR 97232 801 220 7221	8/6/98	
Marsha E. Carroll	Assistant Secretary	825 NE Multnomah, Suite 1800 Portland, OR 97232 503 813 7022	8/13/92	
Michael G. Jenkins	Assistant Secretary	201 South Main, Suite 2100 Salt Lake City, UT 84140 801 220 2233	5/13/98	
John M. Schweitzer	Assistant Secretary	900 SW Sixth Avenue, Ste 2600 Portland, OR 97204 503 294 9225	7/13/84	
John F. Fryer	Assistant Treasurer	825 NE Multnomah, Suite 1900 Portland, OR 97232 503 813 5661	2/8/95	
Bruce N. Williams	Assistant Treasurer	825 NE Multnomah, Suite 1900 Portland, OR 97232 503 813 5662	8/15/90	

ENERGY WEST MINING COMPANY'S[3] DIRECTORS AND OFFICERS

Energy West's Directors

Name	Position	Address and Telephone Number	Date Elected	Term Expires
Dee W. Jense	Director	201 South Main, Suite 2300 Salt Lake City, UT 84140 801 220 4617	8/11/93	Annual elections are held in February each year
Robert P. King	Director	201 South Main, Suite 2300 Salt Lake City, UT 84140 801 220 4590	7/9/99	

Energy West's Officers

Name	Position	Address and Telephone Number	Date Elected	Term Expires
Dee W. Jense	Acting President and Assistant Secretary	201 South Main, Suite 2000 Salt Lake City, UT 84140 801 220 4617	12/1/92	Annual Elections are held in February each year
Lenore M. Martin	Secretary	825 NE Multnomah, Suite 2000 Portland, OR 97232	7/9/99	
Bruce N. Williams	Treasurer	825 NE Multnomah, Suite 1900 Portland, OR 97232 503 813 5664	12/1/92	
Michael T. Winslow	Assistant Secretary	825 NE Multnomah, Suite 2000 Portland, OR 97232 503 813 7212	7/9/99	
Dexter E. Martin	Assistant Secretary	700 NE Multnomah, Suite 950 Portland, OR 97232 503 872 4814	8/11/93	
John F. Fryer	Assistant Treasurer	825 NE Multnomah, Suite 2000 Portland, OR 97232 503 813 5661	2/7/96	

[3] Energy West Mining Company is the operator of the Mine.

PACIFIC MINERALS, INC.'S DIRECTORS AND OFFICERS

Pacific Minerals' Directors

Name	Position	Address and Telephone Number	Date Elected	Term Expires
Dee W. Jense	Director	201 South Main, Suite 2300 Salt Lake City, UT 84140 801 220 4617	8/11/93	Annual elections are held in March each year
Robert P. King	Director	201 South Main, Suite 2300 Salt Lake City, UT 84140 801 220 4590	7/9/99	

Pacific Minerals' Officers

Name	Position	Address and Telephone Number	Date Elected	Term Expires
Dee W. Jense	Vice President and Assistant Secretary	201 South Main, Suite 2000 Salt Lake City, UT 84140 801 220 4617	12/1/91	Annual Elections are held in March each year
Richard T. O'Brien	Vice President	825 NE Multnomah, Suite 2000 Portland, OR 97232 503 813 7101	1/13/95	
Lenore M. Martin	Secretary	825 NE Multnomah, Suite 2000 Portland, OR 97232	7/9/99	
Bruce N. Williams	Treasurer	825 NE Multnomah, Suite 1900 Portland, OR 97232 503 813 5664	12/1/92	
Michael T. Winslow	Assistant Secreary	825 NE Multnomah, Suite 2000 Portland, OR 97232 503 813 7212	7/9/99	
Dexter E. Martin	Assistant Secretary	700 NE Multnomah, Suite 950 Portland, OR 97232 503 872 4814	8/11/93	
John F. Fryer	Assistant Treasurer	825 NE Multnomah, Suite 2000 Portland, OR 97232 503 813 5661	2/7/96	
William E. Peressini	Assistant Treasurer	825 NE Multnomah, Suite 1900 Portland, OR 97232 503 813 5664	1/13/95	

NOV LIST

UPDATED THRU 1999

Interwest Mining Company NOV Information
Last Revised
6/14/99

Company	NOV Date	Pit/Mine	Permit #	NOV #	Agency	Nature of NOV	Assessment	Status	Status Date	Comments	MSHA # and Date of Issuance
Bridger Coal Company	5/8/98	Jim Bridger Mine	338-T4	100341	WDEQ/ LQD	conducting mining activities outside permit boundary	$2,000.00	Terminated	11/25/98	IBR submitted	48-00677 9/28/73
Bridger Coal Company	10/7/97	Jim Bridger Mine	338-T3	100339	WDEQ/ LQD	runoff bypassed structure	NA	Abated	10/30/97	berm enlarged	48-00677 9/28/73
Bridger Coal Company	4/1/97	Jim Bridger Mine	338-T3	100338	WDEQ/ LQD	Failure to install sediment control structure	$3,000.00	Abated	4/3/97	Check Dam installed	48-00677 9/28/73
Bridger Coal Company	8/15/96	Jim Bridger Mine	338-T3	100335	WDEQ/ LQD	Flyrock on undisturbed ground	$2,000.00	Terminated	9/15/96	Flyrock removed	48-00677 9/28/73
Bridger Coal Company	8/12/96	Jim Bridger Mine	338-T3	100535	WDEQ/ LQD	Failure to submit checkdam design for approval.	No fine	Pending	8/27/96	Design submitted	48-00677 9/28/73
Bridger Coal Company	9/3/92	Jim Bridger Mine	338-T2	100306	WDEQ/ LQD	Contaminated ground water and soil. Diesel spill	No fine	Terminated	10/12/92	Remedial action is progressing	48-00677 9/28/73
Centralia Mining Company	12/10/98	Centralia	WA-0001D	98-141-244-3	OSM	Failure to pass all disturbed area drainage through a siltation structure	$2,248.00	Terminated	1/8/99	Assessment Paid	45-00416 3/7/73
Centralia Mining Company	4/8/98	Centralia	WA-0001D	98-141-244-1	OSM	Failure to operate impoundment according to approved permit	None	Terminated	5/22/98	Permit revision approved	45-00416 3/7/73
Centralia Mining Company	12/12/96	Centralia	WA-0001D	96-141-244-1	OSM	Failure to provide required info in Blasting Notice	None	Terminated	1/31/96	Published Notice	45-00416 3/7/73
Energy West Mining Company	8/13/97	Cottonwood/ Wilberg	ACT/015/019	97-26-6-1	DOGM	Failure to maintain silt fences	$50.00	Terminated	8/14/97	Paid fine	42-01944 6/14/85
Energy West Mining Company	8/23/95	Deer Creek	ACT/015/018	95-35-02-01	DOGM	Failure to comply to permit placement of fill material untested (Rilda)	$560.00	Terminated	5/17/96	Paid fine	42-00121 3/15/73
Energy West Mining Company	1/20/98	Des-Bee-Dove	ACT/015/017	98-41-1-1	DOGM	Failure to protect stockpiled soil from unnecessary compaction	$160.00	Terminated	2/10/98	Paid fine	42-00988 2/27/73
Energy West Mining Company	2/13/97	Des-Bee-Dove	ACT/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
Energy West Mining Company	8/20/96	Trail Mountain	ACT/015/009	96-26-2-1	DOGM	Non-coal waste designation	$180.00	Terminated	10/7/96	Paid fine	42-01211 12/8/78
Glenrock Coal Company	5/1/97	Dave Johnston Mine	291-T4	100844	LQD	Non approved disposal of petroleum liquids	$1,000.00	Terminated	9/22/97	Permit revision submitted and approved by LQD	48-00085 3/4/73

COTTONWOOD MINE
DEER CREEK MINE
DES BEE DOVE MINE
TRAIL MOUNTAIN

CERTIFICATES OF LIABILITY

One Utah Center
201 South Main Street, Suite 2000
Salt Lake City, Utah 84140-0020
(801) 220-4616 • FAX (801 220-4725

INTERWEST
MINING COMPANY

A Subsidiary of PacifiCorp

HAND DELIVERED

February 24, 1999

Ms. Pamela Grubaugh-Littig
Permit Coordinator
Division of Oil, Gas & Mining
Utah Department of Natural Resources
1594 West North Temple - Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-145801

RE: Original Certificates of Liability Insurance (ACORD Form), Policy No. XO296A1A99, Policy Period from 2-24-99 to 2-24-2000; Des-Bee-Dove Mine ACT/015/017, Deer Creek Mine ACT/015/018, Cottonwood Mine ACT/015/019 and the Trail Mountain Mine ACT/015/009, Folder #2, Emery County, Utah

Dear Pam:

Enclosed are the original certificates of liability insurance for the referenced coal mine operations for the policy period 2-24-99 to 2-24-2000. Copies of these same certificates have been sent to our mine offices located in Huntington, Utah.

The enclosed certificates (on DOGM form Exhibit "C", the ACORD and AEGIS forms) for each mine are replacement pages for Exhibit "C" in the Reclamation Agreements for each mine.

Should you have any questions or need any additional information, please feel free to contact me at 801-220-4612.

Sincerely,

Scott M. Child
Property Management Administrator

Enclosures

SMC\EWEST\UDOGM9901.wpd

cc: D.W. Jense - OUC 2000 w/o copy encl.
Blake Webster - OUC 2000 w/copy encl.
Keith Sinsel, Chuck Semborski - EWEST w/copy encl.

CERTIFICATE OF LIABILITY INSURANCE
Issued to:
State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining

THIS IS TO CERTIFY THAT:

Associated Electric & Gas Insurance Services Limited
(Name of Insurance Company)

ARGUS Insurance Building, 12 Wesley St. P.O. Box BM 1064, Hamilton, Bermuda
(Home Office Address of Insurance Company)

HAS ISSUED TO

PacifiCorp (Successor in interest to Utah Power & Light)
(Name of Permittee)

COTTONWOOD/WILBERG (Mine Name) ACT/015/019 (Permit Number)

CERTIFICATE OF INSURANCE:

X0296A1A99 (Policy Number) 2-24-1999/2-24-2000 (Effective Date)

UNDER THE FOLLOWING TERMS AND CONDITIONS:

Per R645-301-890 Terms and Conditions for Liability Insurance:

A. The DIVISION Shall require the PERMITTEE to submit as part of its permit application a certificate issued by an insurance company authorized to do business in the State of Utah certifying that the applicant has a public liability insurance policy in force for the surface coal mining and reclamation operations for which the permit is sought. Such policy shall provide for personal injury and property damage protection in an amount adequate to compensate any persons injury or property damage as a result of the surface coal mining and reclamation operations, including the use of explosives and who are entitled to compensation under the applicable provisions of state law. Minimum insurance coverage for bodily injury and property damage shall be $300,000 for each occurrence and $500,000 aggregate.

B. The policy shall be maintained in full force during the life of the permit or any renewal thereof, including the liability period necessary to complete all reclamation operations under this chapter.

C. The policy shall include a rider requiring that the insurer notify the Division whenever substantive changes are made in the policy including any termination or failure to renew.

IN ACCORDANCE WITH THE ABOVE TERMS AND CONDITIONS, and the Utah Code Annotated 40-10-1 et seq., the Insurance Company hereby attests to the fact that coverage for said Permit Application is in accordance with the requirements of the State of Utah and agrees to notify the Division of Oil, Gas and Mining in writing of any substantive changes, including cancellation, failure to renew, or other material change. No change shall be effective until at least thirty (30) days after such notice is received by the Division. Any change unauthorized by the Division is considered breach of the RECLAMATION AGREEMENT and the Division may pursue remedies thereunder.

UNDERWRITING AGENT:

Sandra A. Johnson
(Agent's Name)

(201) 521-4658
(Phone)

AEGIS Insurance Services
(Company Agent's Name)

10 Exchange Place
(Mailing Address)

Jersey City, NJ 07302
(City, State, Zip Code)

The undersigned affirms that the above information is true and complete to the best of his/her knowledge and belief, and that he or she is an authorized representative of the above-named insurance company. (An Affidavit of Qualification must be completed and attached to this form for each authorized agent or officer.)

Sandra A. Johnson

(Date, Signature and Title of Authorized Agent of Insurance Company)

Signed and sworn before me by Sandra A. Johnson

this 22nd day of February, 1999

Lois Anne Salley
(Signature)

LOIS ANNE SALLEY
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires Apr. 27,1999

My commission Expires: My Commission Expires Apr. 27,1999
(Date)

J&H MARSH & McLENNAN, INC. CERTIFICATE OF INSURANCE

CERTIFICATE NUMBE
0007002-00009

PRODUCER

J&H Marsh & McLennan, Inc.
2700 U.S. Bank Tower
111 S.W. 5th Avenue
Portland, OR 97204

Darryl W. Hill (503) 412-3800

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER OTHER THAN THOSE PROVIDED IN THE POLICY. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES LISTED HEREIN.

INSURED

PacifiCorp dba Pacific Power
& Light and dba Utah Power
& Light
825 NE Multnomah, #1770
Portland, OR 97232

COMPANIES AFFORDING COVERAGE

COMPANY A: ASSOC ELEC & GAS INS SVCS LTD

COMPANY B:

COMPANY C:

COMPANY D:

COVERAGES

THIS IS TO CERTIFY THAT POLICIES OF INSURANCE LISTED HEREIN HAVE BEEN ISSUED TO THE INSURED NAMED HEREIN FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THE CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES LISTED HEREIN IS SUBJECT TO ALL THE TERMS, CONDITIONS AND EXCLUSIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS	
A	GENERAL LIABILITY	X0296A1A99	2/24/99	2/24/00	GENERAL AGGREGATE	$ 2,000,00
	X COMMERCIAL GENERAL LIABILITY				PRODUCTS - COMP/OP AGG	$
	X CLAIMS MADE ☐ OCCUR				PERSONAL & ADV INJURY	$
	OWNER'S & CONTRACTOR'S PROT				EACH OCCURRENCE	$ 2,000,00
					FIRE DAMAGE (Any one fire)	$
					MED EXP (Any one person)	$
	AUTOMOBILE LIABILITY				COMBINED SINGLE LIMIT	$
	ANY AUTO					
	ALL OWNED AUTOS				BODILY INJURY (Per person)	$
	SCHEDULED AUTOS					
	HIRED AUTOS				BODILY INJURY (Per accident)	$
	NON-OWNED AUTOS					
					PROPERTY DAMAGE	$
	GARAGE LIABILITY				AUTO ONLY - EA ACCIDENT	$
	ANY AUTO				OTHER THAN AUTO ONLY:	
					EACH ACCIDENT	$
					AGGREGATE	$
A	EXCESS LIABILITY	X0296A1A99	2/24/99	2/24/00	EACH OCCURRENCE	$ 35,000.00
	UMBRELLA FORM				AGGREGATE	$ 35,000.00
	X OTHER THAN UMBRELLA FORM					$
	WORKER'S COMPENSATION AND EMPLOYERS' LIABILITY				WC STATUTORY LIMITS / OTHER	
	THE PROPRIETOR/ PARTNERS/EXECUTIVE OFFICERS ARE: ☐ INCL ☐ EXCL				EL EACH ACCIDENT	$
					EL DISEASE - POLICY LIMIT	$
					EL DISEASE - EA EMPLOYEE	$
	OTHER					

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / SPECIAL ITEMS

Damage due to explosives is covered. Insurance Company will notify the State of Utah of changes or cancellation

(See reverse and/or attached for additional information.)

CERTIFICATE HOLDER

State of Utah, Dept. of
Natural Resources, Division of
356 W North Temple
Salt Lake City, UT 84180-1203

CANCELLATION

SHOULD ANY OF THE POLICIES LISTED HEREIN BE CANCELLED BEFORE THE EXPIRATIO DATE THEREOF, THE INSURER AFFORDING COVERAGE WILL ~~ENDEAVOR TO~~ MAIL 45 * DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED HEREIN, ~~BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER AFFORDING COVERAGE, ITS AGENTS OR REPRESENTATIVES, OR THE ISSUER OF THIS CERTIFICATE.~~

~~J&H MARSH & McLENNAN, INCORPORATED~~
BY: Sandra K. Olson

JHMM1 (2/98) VALID AS OF: 2/24/99

(* 10 DAYS FOR NON-PAYMENT) HOLDER COPY

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES Cont'd.

DAMAGE DUE TO EXPLOSIVES IS COVERED. INSURANCE COMPANY WILL NOTIFY THE STATE OF UTAH OF CHANGES OR CANCELLATION--COTTONWOOD/WILBERG ACT/015/019

Form B (Additional Insured

Certificate Number: 6958

ASSOCIATED ELECTRIC & GAS INSURANCE SERVICES LIMITED
Hamilton, Bermuda

CERTIFICATE OF INSURANCE
(Excess Liability)

This Certificate is furnished to the Certificate Holder named below as a matter of information only. Neither this Certificate nor the issuance hereof modifies the policy of insurance identified below (the "Policy") in any manner. The Policy terms are solely as stated in the Policy or in any endorsement thereto. Any amendment, change or extension of the Policy can only be effected by a specific endorsement issued by the Company and attached to the Policy.

The undersigned hereby certifies that the Policy has been issued by Associated Electric & Gas Insurance Services Limited (the "Company") to the Named Insured identified below for the coverage described and for the policy period specified.

Notwithstanding any requirements, terms or conditions of any contract or other document with respect to which this Certificate may be issued or to which it may pertain, the insurance afforded by the Policy is subject to all of the terms of the Policy.

NAME OF INSURED	PacifiCorp dba Pacific Power & Light and dba Utah Power & Light			
PRINCIPAL ADDRESS	825 NE Multnomah, #1770, Portland, Oregon 97232			
POLICY NUMBER	X0296A1A99	POLICY PERIOD	From:	2/24/1999
			To:	2/24/2000
RETROACTIVE DATE:	December 24, 1986			
DESCRIPTION OF COVERAGE:	Claims-First-Made Excess Liability Policy covering claims for Bodily Injury, Property Damage and Personal Injury arising from the operations described below.			
LIMIT OF LIABILITY:	$35,000,000 per occurrence and in the aggregate, where applicable.			
ADDITIONAL INSURED:	The Certificate Holder is an Additional Insured under the Policy but only (I) to such extent and for such Limits of Liability (subject always to the terms and Limits of Liability of the Policy) as the Named Insured has agreed to provide insurance for the Certificate Holder under the following contract: **Cottonwood/Wilberg: ACT/015/019** And (ii) with respect to the following operations: **Damage to explosions is covered. Insurance Company will notify State of Utah of any changes or cancellation.**			

Should the Policy be cancelled, assigned or changed in a manner that is materially adverse to the Insured(s) under the Policy, the undersigned will ~~endeavor to~~ give 45 days advance written notice thereof to the Certificate Holder, ~~but failure to give such notice will impose no obligation or liability of any kind upon the Company, the undersigned or any agent or representative of either~~.

DATE: 2/19/99

Certificate Holder

ISSUED TO: The State of Utah, Dept. of Natural Resources,
ADDRESS: Division of Oil and Gas
356 West North Temple
Salt Lake City, UT 84180-1203

AEGIS INSURANCE SERVICES, INC.

BY: Sandra J. Hason
At Jersey City, New Jersey

9001 (8/87)
Copies: White-Certificate Holder; Canary-Aegis Insurance Services, Inc.; Pink-Insured; Goldenrod-Broker

CERTIFICATE OF LIABILITY INSURANCE
Issued to:
State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining

THIS IS TO CERTIFY THAT:

Associated Electric & Gas Insurance Services Limited
(Name of Insurance Company)

ARGUS Insurance Building, 12 Wesley St. P.O. Box BM 1064, Hamilton, Bermuda
(Home Office Address of Insurance Company)

HAS ISSUED TO

PacifiCorp (Successor in interest to Utah Power & Light)
(Name of Permittee)

DEER CREEK	ACT/015/018
(Mine Name)	(Permit Number)

CERTIFICATE OF INSURANCE:

X0296A1A99	2-24-1999/2-24-2000
(Policy Number)	(Effective Date)

UNDER THE FOLLOWING TERMS AND CONDITIONS:

Per R645-301-890 Terms and Conditions for Liability Insurance:

A. The DIVISION Shall require the PERMITTEE to submit as part of its permit application a certificate issued by an insurance company authorized to do business in the State of Utah certifying that the applicant has a public liability insurance policy in force for the surface coal mining and reclamation operations for which the permit is sought. Such policy shall provide for personal injury and property damage protection in an amount adequate to compensate any persons injury or property damage as a result of the surface coal mining and reclamation operations, including the use of explosives and who are entitled to compensation under the applicable provisions of state law. Minimum insurance coverage for bodily injury and property damage shall be $300,000 for each occurrence and $500,000 aggregate.

B. The policy shall be maintained in full force during the life of the permit or any renewal thereof, including the liability period necessary to complete all reclamation operations under this chapter.

C. The policy shall include a rider requiring that the insurer notify the Division whenever substantive changes are made in the policy including any termination or failure to renew.

IN ACCORDANCE WITH THE ABOVE TERMS AND CONDITIONS, and the Utah Code Annotated 40-10-1 et seq., the Insurance Company hereby attests to the fact that coverage for said Permit Application is in accordance with the requirements of the State of Utah and agrees to notify the Division of Oil, Gas and Mining in writing of any substantive changes, including cancellation, failure to renew, or other material change. No change shall be effective until at least thirty (30) days after such notice is received by the Division. Any change unauthorized by the Division is considered breach of the RECLAMATION AGREEMENT and the Division may pursue remedies thereunder.

UNDERWRITING AGENT:

Sandra A. Johnson
(Agent's Name)

(201) 521-4658
(Phone)

AEGIS Insurance Services
(Company Agent's Name)

10 Exchange Place
(Mailing Address)

Jersey City, NJ 07302
(City, State, Zip Code)

The undersigned affirms that the above information is true and complete to the best of his/her knowledge and belief, and that he or she is an authorized representative of the above-named insurance company. (An Affidavit of Qualification must be completed and attached to this form for each authorized agent or officer.)

Sandra A. Johnson

(Date, Signature and Title of Authorized Agent of Insurance Company)

Signed and sworn before me by Sandra A. Johnson

this 22nd day of February, 1999

Lois Anne Salley
(Signature)

LOIS ANNE SALLEY
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires Apr. 27,1999

My commission Expires: _____
(Date)

J&H MARSH & McLENNAN, INC. CERTIFICATE OF INSURANCE

CERTIFICATE NUMBER 0007002-00009

PRODUCER

J&H Marsh & McLennan, Inc.
2700 U.S. Bank Tower
111 S.W. 5th Avenue
Portland, OR 97204

Darryl W. Hill (503) 412-3800

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER OTHER THAN THOSE PROVIDED IN THE POLICY. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES LISTED HEREIN.

INSURED

PacifiCorp dba Pacific Power
& Light and dba Utah Power
& Light
825 NE Multnomah, #1770
Portland, OR 97232

COMPANIES AFFORDING COVERAGE

COMPANY A: ASSOC ELEC & GAS INS SVCS LTD

COMPANY B:

COMPANY C:

COMPANY D:

COVERAGES

THIS IS TO CERTIFY THAT POLICIES OF INSURANCE LISTED HEREIN HAVE BEEN ISSUED TO THE INSURED NAMED HEREIN FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THE CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES LISTED HEREIN IS SUBJECT TO ALL THE TERMS, CONDITIONS AND EXCLUSIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS	
A	GENERAL LIABILITY	X0296A1A99	2/24/99	2/24/00	GENERAL AGGREGATE	$ 2,000,000
	X COMMERCIAL GENERAL LIABILITY				PRODUCTS - COMP/OP AGG	$
	X CLAIMS MADE ☐ OCCUR				PERSONAL & ADV INJURY	$
	☐ OWNER'S & CONTRACTOR'S PROT				EACH OCCURRENCE	$ 2,000,000
					FIRE DAMAGE (Any one fire)	$
					MED EXP (Any one person)	$
	AUTOMOBILE LIABILITY				COMBINED SINGLE LIMIT	$
	☐ ANY AUTO					
	☐ ALL OWNED AUTOS				BODILY INJURY (Per person)	$
	☐ SCHEDULED AUTOS					
	☐ HIRED AUTOS				BODILY INJURY (Per accident)	$
	☐ NON-OWNED AUTOS					
					PROPERTY DAMAGE	$
	GARAGE LIABILITY				AUTO ONLY - EA ACCIDENT	$
	☐ ANY AUTO				OTHER THAN AUTO ONLY:	
					EACH ACCIDENT	$
					AGGREGATE	$
A	EXCESS LIABILITY	X0296A1A99	2/24/99	2/24/00	EACH OCCURRENCE	$ 35,000,000
	☐ UMBRELLA FORM				AGGREGATE	$ 35,000,000
	X OTHER THAN UMBRELLA FORM					$
	WORKER'S COMPENSATION AND EMPLOYERS' LIABILITY				WC STATUTORY LIMITS / OTHER	
	THE PROPRIETOR/ PARTNERS/EXECUTIVE OFFICERS ARE: ☐ INCL ☐ EXCL				EL EACH ACCIDENT	$
					EL DISEASE - POLICY LIMIT	$
					EL DISEASE - EA EMPLOYEE	$
	OTHER					

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / SPECIAL ITEMS

Damage due to explosives is covered. Insurance Company will notify the State of Utah of changes or cancellation

(See reverse and/or attached for additional information.)

CERTIFICATE HOLDER

State of Utah, Dept. of
Natural Resources, Division of
356 W North Temple
Salt Lake City, UT 84180-1203

CANCELLATION

SHOULD ANY OF THE POLICIES LISTED HEREIN BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE INSURER AFFORDING COVERAGE WILL ~~ENDEAVOR TO~~ MAIL 45 * DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED HEREIN, ~~BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER AFFORDING COVERAGE, ITS AGENTS OR REPRESENTATIVES, OR THE ISSUER OF THIS CERTIFICATE.~~

~~J&H MARSH & McLENNAN, INCORPORATED~~
BY: Sandra K. Olson

JHMM1 (2/98) VALID AS OF: 2/24/99

(* 10 DAYS FOR NON-PAYMENT) HOLDER COPY

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES Cont'd.

DAMAGE DUE TO EXPLOSIVES IS COVERED. INSURANCE COMPANY WILL NOTIFY THE STATE OF UTAH OF CHANGES OR CANCELLATION--DEERCREEK ACT/015/018

Form B (Additional Insured

Certificate Number: 69583

ASSOCIATED ELECTRIC & GAS INSURANCE SERVICES LIMITED
Hamilton, Bermuda

CERTIFICATE OF INSURANCE
(Excess Liability)

This Certificate is furnished to the Certificate Holder named below as a matter of information only. Neither this Certificate nor the issuance hereof modifies the policy of insurance identified below (the "Policy") in any manner. The Policy terms are solely as stated in the Policy or in any endorsement thereto. Any amendment, change or extension of the Policy can only be effected by a specific endorsement issued by the Company and attached to the Policy.

The undersigned hereby certifies that the Policy has been issued by Associated Electric & Gas Insurance Services Limited (the "Company") to the Named Insured identified below for the coverage described and for the policy period specified.

Notwithstanding any requirements, terms or conditions of any contract or other document with respect to which this Certificate may be issued or to which it may pertain, the insurance afforded by the Policy is subject to all of the terms of the Policy.

NAME OF INSURED	PacifiCorp dba Pacific Power & Light and dba Utah Power & Light			
PRINCIPAL ADDRESS	825 NE Multnomah, #1770, Portland, Oregon 97232			
POLICY NUMBER	X0296A1A99	POLICY PERIOD	From:	2/24/1999
			To:	2/24/2000
RETROACTIVE DATE:	December 24, 1986			
DESCRIPTION OF COVERAGE:	Claims-First-Made Excess Liability Policy covering claims for Bodily Injury, Property Damage and Personal Injury arising from the operations described below.			
LIMIT OF LIABILITY:	$35,000,000 per occurrence and in the aggregate, where applicable.			
ADDITIONAL INSURED:	The Certificate Holder is an Additional Insured under the Policy but only (I) to such extent and for such Limits of Liability (subject always to the terms and Limits of Liability of the Policy) as the Named Insured has agreed to provide insurance for the Certificate Holder under the following contract: **Deercreek: ACT/015/018** And (ii) with respect to the following operations:			

Damage to explosions is covered. Insurance Company will notify State of Utah of any changes or cancellation.

Should the Policy be cancelled, assigned or changed in a manner that is materially adverse to the Insured(s) under the Policy, the undersigned will ~~endeavor to~~ give 45 days advance written notice thereof to the Certificate Holder, ~~but failure to give such notice will impose no obligation or liability of any kind upon the Company, the undersigned or any agent or representative of either~~.

DATE: 2/19/99

Certificate Holder

ISSUED TO: The State of Utah, Dept. of Natural Resources
ADDRESS: Division of Oil and Gas
356 West North Temple
Salt Lake City, UT 84180-1203

AEGIS INSURANCE SERVICES, INC.

BY: Sandra A. J. Lasch
At Jersey City, New Jersey

9001 (8/87)
Copies: White-Certificate Holder; Canary-Aegis Insurance Services, Inc.; Pink-Insured; Goldenrod-Broker

CERTIFICATE OF LIABILITY INSURANCE
Issued to:
State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining

THIS IS TO CERTIFY THAT:

Associated Electric & Gas Insurance Services Limited
(Name of Insurance Company)

ARGUS Insurance Building, 12 Wesley St. P.O. Box BM 1064, Hamilton, Bermuda
(Home Office Address of Insurance Company)

HAS ISSUED TO

PacifiCorp (Successor in interest to Utah Power & Light)
(Name of Permittee)

DES/BEE/DOVE (Mine Name) ACT/015/017 (Permit Number)

CERTIFICATE OF INSURANCE:

X0296A1A99 (Policy Number) 2-24-1999/2-24-2000 (Effective Date)

UNDER THE FOLLOWING TERMS AND CONDITIONS:

Per R645-301-890 Terms and Conditions for Liability Insurance:

A. The DIVISION Shall require the PERMITTEE to submit as part of its permit application a certificate issued by an insurance company authorized to do business in the State of Utah certifying that the applicant has a public liability insurance policy in force for the surface coal mining and reclamation operations for which the permit is sought. Such policy shall provide for personal injury and property damage protection in an amount adequate to compensate any persons injury or property damage as a result of the surface coal mining and reclamation operations, including the use of explosives and who are entitled to compensation under the applicable provisions of state law. Minimum insurance coverage for bodily injury and property damage shall be $300,000 for each occurrence and $500,000 aggregate.

B. The policy shall be maintained in full force during the life of the permit or any renewal thereof, including the liability period necessary to complete all reclamation operations under this chapter.

C. The policy shall include a rider requiring that the insurer notify the Division whenever substantive changes are made in the policy including any termination or failure to renew.

IN ACCORDANCE WITH THE ABOVE TERMS AND CONDITIONS, and the Utah Code Annotated 40-10-1 et seq., the Insurance Company hereby attests to the fact that coverage for said Permit Application is in accordance with the requirements of the State of Utah and agrees to notify the Division of Oil, Gas and Mining in writing of any substantive changes, including cancellation, failure to renew, or other material change. No change shall be effective until at least thirty (30) days after such notice is received by the Division. Any change unauthorized by the Division is considered breach of the RECLAMATION AGREEMENT and the Division may pursue remedies thereunder.

UNDERWRITING AGENT:

Sandra A. Johnson
(Agent's Name)

(201) 521-4658
(Phone)

AEGIS Insurance Services
(Company Agent's Name)

10 Exchange Place
(Mailing Address)

Jersey City, NJ 07302
(City, State, Zip Code)

The undersigned affirms that the above information is true and complete to the best of his/her knowledge and belief, and that he or she is an authorized representative of the above-named insurance company. (An Affidavit of Qualification must be completed and attached to this form for each authorized agent or officer.)

Sandra A. Johnson

(Date, Signature and Title of Authorized Agent of Insurance Company)

Signed and sworn before me by Sandra A. Johnson

this 22nd day of February, 1999

Lois Anne Salley
(Signature)

LOIS ANNE SALLEY
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires Apr. 27, 1999

My commission Expires: _____
(Date)

J&H MARSH & McLENNAN, INC. CERTIFICATE OF INSURANCE

CERTIFICATE NUMBER 0007002-00009

PRODUCER

J&H Marsh & McLennan, Inc.
2700 U.S. Bank Tower
111 S.W. 5th Avenue
Portland, OR 97204

Darryl W. Hill (503) 412-3800

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER OTHER THAN THOSE PROVIDED IN THE POLICY. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES LISTED HEREIN.

INSURED

PacifiCorp dba Pacific Power
& Light and dba Utah Power
& Light
825 NE Multnomah, #1770
Portland, OR 97232

COMPANIES AFFORDING COVERAGE

COMPANY A ASSOC ELEC & GAS INS SVCS LTD

COMPANY B

COMPANY C

COMPANY D

COVERAGES

THIS IS TO CERTIFY THAT POLICIES OF INSURANCE LISTED HEREIN HAVE BEEN ISSUED TO THE INSURED NAMED HEREIN FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THE CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES LISTED HEREIN IS SUBJECT TO ALL THE TERMS, CONDITIONS AND EXCLUSIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS	
A	GENERAL LIABILITY	X0296A1A99	2/24/99	2/24/00	GENERAL AGGREGATE	$ 2,000,000
	X COMMERCIAL GENERAL LIABILITY				PRODUCTS - COMP/OP AGG	$
	X CLAIMS MADE ☐ OCCUR				PERSONAL & ADV INJURY	$
	OWNER'S & CONTRACTOR'S PROT				EACH OCCURRENCE	$ 2,000,000
					FIRE DAMAGE (Any one fire)	$
					MED EXP (Any one person)	$
	AUTOMOBILE LIABILITY				COMBINED SINGLE LIMIT	$
	ANY AUTO					
	ALL OWNED AUTOS				BODILY INJURY (Per person)	$
	SCHEDULED AUTOS					
	HIRED AUTOS				BODILY INJURY (Per accident)	$
	NON-OWNED AUTOS					
					PROPERTY DAMAGE	$
	GARAGE LIABILITY				AUTO ONLY - EA ACCIDENT	$
	ANY AUTO				OTHER THAN AUTO ONLY:	
					EACH ACCIDENT	$
					AGGREGATE	$
A	EXCESS LIABILITY	X0296A1A99	2/24/99	2/24/00	EACH OCCURRENCE	$ 35,000,000
	UMBRELLA FORM				AGGREGATE	$ 35,000,000
	X OTHER THAN UMBRELLA FORM					$
	WORKER'S COMPENSATION AND EMPLOYERS' LIABILITY				WC STATUTORY LIMITS / OTHER	
	THE PROPRIETOR/ PARTNERS/EXECUTIVE OFFICERS ARE: ☐ INCL ☐ EXCL				EL EACH ACCIDENT	$
					EL DISEASE - POLICY LIMIT	$
					EL DISEASE - EA EMPLOYEE	$
	OTHER					

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / SPECIAL ITEMS

Damage due to explosives is covered. Insurance Company will notify the State of Utah of changes or cancellation

.

(See reverse and/or attached for additional information.)

CERTIFICATE HOLDER

State of Utah, Dept. of
Natural Resources, Division of
356 W North Temple
Salt Lake City, UT 84180-1203

CANCELLATION

SHOULD ANY OF THE POLICIES LISTED HEREIN BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE INSURER AFFORDING COVERAGE WILL ~~ENDEAVOR TO~~ MAIL 45 * DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED HEREIN ~~BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, AFFORDING COVERAGE, ITS AGENTS OR REPRESENTATIVES, OR THE ISSUER OF THIS CERTIFICATE~~.

~~AUTHORIZED REPRESENTATIVE~~

BY: Sandra A. Brown

JHMM1 (2/98) VALID AS OF: 2/24/99

(* 10 DAYS FOR NON-PAYMENT) HOLDER COPY

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES Cont'd.

DAMAGE DUE TO EXPLOSIVES IS COVERED. INSURANCE COMPANY WILL NOTIFY THE STATE OF UTAH OF CHANGES OR CANCELLATION--DES/BEE/DOVE ACT/015/017

Form B (Additional Insured

Certificate Number: 69586

ASSOCIATED ELECTRIC & GAS INSURANCE SERVICES LIMITED
Hamilton, Bermuda

CERTIFICATE OF INSURANCE
(Excess Liability)

This Certificate is furnished to the Certificate Holder named below as a matter of information only. Neither this Certificate nor the issuance hereof modifies the policy of insurance identified below (the "Policy") in any manner. The Policy terms are solely as stated in the Policy or in any endorsement thereto. Any amendment, change or extension of the Policy can only be effected by a specific endorsement issued by the Company and attached to the Policy.

The undersigned hereby certifies that the Policy has been issued by Associated Electric & Gas Insurance Services Limited (the "Company") to the Named Insured identified below for the coverage described and for the policy period specified.

Notwithstanding any requirements, terms or conditions of any contract or other document with respect to which this Certificate may be issued or to which it may pertain, the insurance afforded by the Policy is subject to all of the terms of the Policy.

NAME OF INSURED	PacifiCorp dba Pacific Power & Light and dba Utah Power & Light			
PRINCIPAL ADDRESS	825 NE Multnomah, #1770, Portland, Oregon 97232			
POLICY NUMBER	X0296A1A99	POLICY PERIOD	From:	2/24/1999
			To:	2/24/2000
RETROACTIVE DATE:	December 24, 1986			
DESCRIPTION OF COVERAGE:	Claims-First-Made Excess Liability Policy covering claims for Bodily Injury, Property Damage and Personal Injury arising from the operations described below.			
LIMIT OF LIABILITY:	$35,000,000 per occurrence and in the aggregate, where applicable.			
ADDITIONAL INSURED:	The Certificate Holder is an Additional Insured under the Policy but only (I) to such extent and for such Limits of Liability (subject always to the terms and Limits of Liability of the Policy) as the Named Insured has agreed to provide insurance for the Certificate Holder under the following contract: **Des/Bee/Dove: ACT/015/017** And (ii) with respect to the following operations:			

Damage to explosions is covered. Insurance Company will notify State of Utah of any changes or cancellation.

Should the Policy be cancelled, assigned or changed in a manner that is materially adverse to the Insured(s) under the Policy, the undersigned will ~~endeavor to~~ give 45 days advance written notice thereof to the Certificate Holder, ~~but failure to give such notice will impose no obligation or liability of any kind upon the Company, the undersigned or any agent or representative of either~~.

DATE: 2/19/99

Certificate Holder

ISSUED TO: The State of Utah, Dept. of Natural Resources,
ADDRESS: Division of Oil and Gas
356 West North Temple
Salt Lake City, UT 84180-1203

AEGIS INSURANCE SERVICES, INC.

BY: Sandra A. Jackson
At Jersey City, New Jersey

9001 (8/87)
Copies: White-Certificate Holder; Canary-Aegis Insurance Services, Inc.; Pink-Insured; Goldenrod-Broker

CERTIFICATE OF LIABILITY INSURANCE
Issued to:
State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining

THIS IS TO CERTIFY THAT:

Associated Electric & Gas Insurance Services Limited
(Name of Insurance Company)

ARGUS Insurance Building, 12 Wesley St. P.O. Box BM 1064, Hamilton, Bermuda
(Home Office Address of Insurance Company)

HAS ISSUED TO

PacifiCorp (Successor in interest to Utah Power & Light)
(Name of Permittee)

TRAIL MOUNTAIN MINE
(Mine Name)

ACT/015/009
(Permit Number)

CERTIFICATE OF INSURANCE:

X0296A1A99
(Policy Number)

2-24-1999/2-24-2000
(Effective Date)

UNDER THE FOLLOWING TERMS AND CONDITIONS:

Per R645-301-890 Terms and Conditions for Liability Insurance:

A. The DIVISION Shall require the PERMITTEE to submit as part of its permit application a certificate issued by an insurance company authorized to do business in the State of Utah certifying that the applicant has a public liability insurance policy in force for the surface coal mining and reclamation operations for which the permit is sought. Such policy shall provide for personal injury and property damage protection in an amount adequate to compensate any persons injury or property damage as a result of the surface coal mining and reclamation operations, including the use of explosives and who are entitled to compensation under the applicable provisions of state law. Minimum insurance coverage for bodily injury and property damage shall be $300,000 for each occurrence and $500,000 aggregate.

B. The policy shall be maintained in full force during the life of the permit or any renewal thereof, including the liability period necessary to complete all reclamation operations under this chapter.

C. The policy shall include a rider requiring that the insurer notify the Division whenever substantive changes are made in the policy including any termination or failure to renew.

IN ACCORDANCE WITH THE ABOVE TERMS AND CONDITIONS, and the Utah Code Annotated 40-10-1 et seq., the Insurance Company hereby attests to the fact that coverage for said Permit Application is in accordance with the requirements of the State of Utah and agrees to notify the Division of Oil, Gas and Mining in writing of any substantive changes, including cancellation, failure to renew, or other material change. No change shall be effective until at least thirty (30) days after such notice is received by the Division. Any change unauthorized by the Division is considered breach of the RECLAMATION AGREEMENT and the Division may pursue remedies thereunder.

UNDERWRITING AGENT:

Sandra A. Johnson
(Agent's Name)

(201) 521-4658
(Phone)

AEGIS Insurance Services
(Company Agent's Name)

10 Exchange Place
(Mailing Address)

Jersey City, NJ 07302
(City, State, Zip Code)

The undersigned affirms that the above information is true and complete to the best of his/her knowledge and belief, and that he or she is an authorized representative of the above-named insurance company. (An Affidavit of Qualification must be completed and attached to this form for each authorized agent or officer.)

Sandra A. Johnson

(Date, Signature and Title of Authorized Agent of Insurance Company)

Signed and sworn before me by Lois Anne Salley

this 22nd day of February, 1999

Lois Anne Salley
(Signature)

LOIS ANNE SALLEY
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires Apr. 27,1999

My commission Expires: My Commission Expires Apr. 27,1999
(Date)

J&H MARSH & McLENNAN, INC.

CERTIFICATE OF INSURANCE

CERTIFICATE NUMBER
0007002-00009

PRODUCER

J&H Marsh & McLennan, Inc.
2700 U.S. Bank Tower
111 S.W. 5th Avenue
Portland, OR 97204

Darryl W. Hill (503) 412-3800

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER OTHER THAN THOSE PROVIDED IN THE POLICY. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES LISTED HEREIN.

COMPANIES AFFORDING COVERAGE

COMPANY A ASSOC ELEC & GAS INS SVCS LTD

COMPANY B

COMPANY C

COMPANY D

INSURED

PacifiCorp dba Pacific Power
& Light and dba Utah Power
& Light
825 NE Multnomah, #1770
Portland, OR 97232

COVERAGES

THIS IS TO CERTIFY THAT POLICIES OF INSURANCE LISTED HEREIN HAVE BEEN ISSUED TO THE INSURED NAMED HEREIN FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THE CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES LISTED HEREIN IS SUBJECT TO ALL THE TERMS, CONDITIONS AND EXCLUSIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS	
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	X COMMERCIAL GENERAL LIABILITY				PRODUCTS - COMP/OP AGG	$
	X CLAIMS MADE ☐ OCCUR				PERSONAL & ADV INJURY	$
	OWNER'S & CONTRACTOR'S PROT				EACH OCCURRENCE	$ 2,000,000
					FIRE DAMAGE (Any one fire)	$
					MED EXP (Any one person)	$
	AUTOMOBILE LIABILITY				COMBINED SINGLE LIMIT	$
	ANY AUTO					
	ALL OWNED AUTOS				BODILY INJURY (Per person)	$
	SCHEDULED AUTOS					
	HIRED AUTOS				BODILY INJURY (Per accident)	$
	NON-OWNED AUTOS					
					PROPERTY DAMAGE	$
	GARAGE LIABILITY				AUTO ONLY - EA ACCIDENT	$
	ANY AUTO				OTHER THAN AUTO ONLY:	
					EACH ACCIDENT	$
					AGGREGATE	$
A	EXCESS LIABILITY	X0296A1A99	2/24/99	2/24/00	EACH OCCURRENCE	$ 35,000,000
	UMBRELLA FORM				AGGREGATE	$ 35,000,000
	X OTHER THAN UMBRELLA FORM					$
	WORKER'S COMPENSATION AND EMPLOYERS' LIABILITY				WC STATUTORY LIMITS / OTHER	
	THE PROPRIETOR/ PARTNERS/EXECUTIVE OFFICERS ARE: ☐ INCL ☐ EXCL				EL EACH ACCIDENT	$
					EL DISEASE - POLICY LIMIT	$
					EL DISEASE - EA EMPLOYEE	$
	OTHER					

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / SPECIAL ITEMS

DAMAGE DUE TO EXPLOSIVES IS COVERED. INSURANCE COMPANY WILL NOTIFY THE STATE OF UTAH OF CHANGES OR CANCELLATION - TRAIL MOUNTAIN MINE ACT/015/009

CERTIFICATE HOLDER

State of Utah, Dept. of
Natural Resources, Division of
356 W North Temple
Salt Lake City, UT 84180-1203

CANCELLATION

SHOULD ANY OF THE POLICIES LISTED HEREIN BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE INSURER AFFORDING COVERAGE WILL ~~ENDEAVOR TO~~ MAIL 45 * DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED HEREIN, ~~BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER AFFORDING COVERAGE, ITS AGENTS OR REPRESENTATIVES, OR THE ISSUER OF THIS CERTIFICATE~~.

~~J&H MARSH & McLENNAN, INCORPORATED~~
BY: Sandra A. Olson

JHMM1 (2/98) VALID AS OF: 2/24/99

(* 10 DAYS FOR NON-PAYMENT) HOLDER COPY

Form B (Additional Insured

Certificate Number: 69584

ASSOCIATED ELECTRIC & GAS INSURANCE SERVICES LIMITED
Hamilton, Bermuda

CERTIFICATE OF INSURANCE
(Excess Liability)

This Certificate is furnished to the Certificate Holder named below as a matter of information only. Neither this Certificate nor the issuance hereof modifies the policy of insurance identified below (the "Policy") in any manner. The Policy terms are solely as stated in the Policy or in any endorsement thereto. Any amendment, change or extension of the Policy can only be effected by a specific endorsement issued by the Company and attached to the Policy.

The undersigned hereby certifies that the Policy has been issued by Associated Electric & Gas Insurance Services Limited (the "Company") to the Named Insured identified below for the coverage described and for the policy period specified.

Notwithstanding any requirements, terms or conditions of any contract or other document with respect to which this Certificate may be issued or to which it may pertain, the insurance afforded by the Policy is subject to all of the terms of the Policy.

NAME OF INSURED	PacifiCorp dba Pacific Power & Light and dba Utah Power & Light			
PRINCIPAL ADDRESS	825 NE Multnomah, #1770, Portland, Oregon 97232			
POLICY NUMBER	X0296A1A99	POLICY PERIOD	From:	2/24/1999
			To:	2/24/2000
RETROACTIVE DATE:	December 24, 1986			
DESCRIPTION OF COVERAGE:	Claims-First-Made Excess Liability Policy covering claims for Bodily Injury, Property Damage and Personal Injury arising from the operations described below.			
LIMIT OF LIABILITY:	$35,000,000 per occurrence and in the aggregate, where applicable.			
ADDITIONAL INSURED:	The Certificate Holder is an Additional Insured under the Policy but only (I) to such extent and for such Limits of Liability (subject always to the terms and Limits of Liability of the Policy) as the Named Insured has agreed to provide insurance for the Certificate Holder under the following contract: **Trail Mountain Mine: ACT/015/009** And (ii) with respect to the following operations:			

Damage to explosions is covered. Insurance Company will notify State of Utah of any changes or cancellation.

Should the Policy be cancelled, assigned or changed in a manner that is materially adverse to the Insured(s) under the Policy, the undersigned will ~~endeavor to~~ give 45 days advance written notice thereof to the Certificate Holder, ~~but failure to give such notice will impose no obligation or liability of any kind upon the Company, the undersigned or any agent or representative of either~~.

DATE: 2/19/99

Certificate Holder

ISSUED TO: The State of Utah, Dept. of Natural Resources
ADDRESS: Division of Oil and Gas
356 West North Temple
Salt Lake City, UT 84180-1203

AEGIS INSURANCE SERVICES, INC.

BY: Sandra A. Hanson
At Jersey City, New Jersey

9001 (8/87)
Copies: White-Certificate Holder; Canary-Aegis Insurance Services, Inc.; Pink-Insured; Goldenrod-Broker

LEASE MODIFICATION
U-06039

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155

In Reply Refer To:
3432
U-06039
(UT-932)

FEB 1 1 1999

FEB 1999
Received
Interwest Mining Company

DECISION

PacifiCorp c/o Interwest Mining Company One Utah Center, Suite 2000 201 South Main Street Salt Lake City, Utah 84140-0020	:	Coal Lease U-06039

Bond Rider Accepted
Coal Lease U-06039 Modified

Coal lease U-06039 was modified effective February 11, 1999. All terms and conditions of the original lease were made consisitent with the laws, regulations, and lease terms applicable at the time of this modification.

A rider to coal lease bond 400 JV 3713 (BLM Bond No. UT0988) accepting coverage for the additional acreage was filed in this office on February 1, 1999. The rider was examined, found to be satisfactory, and accepted as of the date of filing.

Additional rental of $137.50 to cover the estimated additional rental for the current rental year was submitted February 1, 1999. Rental in the amount of $3.00 per acre, or a total of $4,359 is due on December 23, 1999.

Within 30 days after the effective date of this lease modification, the lessee shall amend its East Mountain Logical Mining Unit to include the 50 acres added to coal lease U-06039 by this modification. The modified land shall be segregated into another Federal coal lease should the lessee fail to file such amendment.

Robert Lopez
Group Leader,
Minerals Adjudication Group

Enclosures
1. Copy of Lease Modification
2. Copy of Rider

cc: C. SEMBORSKI - EWMC
J. KIRKHAM - STEEL RIVES

cc: MMS, Solids (w/copy of modification)
Resource Development Coordinating Committee (w/copy of modification)
Price Coal Office (Attn: Barry Grosely) (w/copy of modification)
Manti-LaSal National Forest (w/copy of modification)
Lowell Braxton, Director, UDOGM, P.O. Box 145801, SLC, UT 84114-5801 (w/copy of modification)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Serial No. UTU-06039

MODIFIED COAL LEASE

Date of Lease: May 1, 1953

PART I.

THIS MODIFIED COAL LEASE is entered into on FEB 1 7 1999, by and between the **UNITED STATES OF AMERICA**, hereinafter called the Lessor, through the Bureau of Land Management, and

PacifiCorp
201 South Main, Suite 2000
Salt Lake City, Utah 84140

hereinafter called Lessee.

RECEIVED
FEB 1 1999
Bureau of
Land Management

This modified lease shall retain the effective date of May 1, 1953, of the original COAL LEASE UTU-06039, and is effective for a period of 20 years therefrom, and for so long thereafter as coal is produced in commercial quantities from the leased lands, subject to readjustment of lease terms at the end of the 20th lease year (September 1, 1976), and each 10-year period thereafter.

Sec. 1. This lease is issued pursuant and subject to the terms and provisions of the: (NOTE: Check the appropriate Act or Acts.)

XX Mineral Lands Leasing Act of 1920, as amended, 41 Stat. 437, 30 U.S.C. 181-287, hereinafter referred to as the Act;

_ Mineral Leasing Act for Acquired Lands of 1947, 61 Stat. 913, 30 U.S.C. 351-359;

and to the regulations and formal orders of the Secretary of the Interior which are now or hereafter in force, when not inconsistent with the express and specific provisions herein.

Sec. 2. Lessee as the holder of Coal Lease UTU-06039, issued effective May 1, 1953, was granted the exclusive right and privilege to drill for, mine, extract, remove or otherwise process and dispose of the coal deposits in, upon, or under the lands described below as Tract 1.

The Lessor in consideration of fair market value, rents and royalties to be paid, and the conditions and covenants to be observed as herein set forth, hereby grants and leases to Lessee the exclusive right and privilege to drill for, mine, extract, remove, or otherwise process and dispose of the coal deposits in, upon, or under the lands described below as Tract 2.

Tract 1: T. 16 S., R. 6 E., SLM, UT
Sec. 25, E2SESE.
T. 16 S., R. 7 E., SLM, UT
Sec. 19, SE;
Sec. 20, S2;
Sec. 29, N2, SW, W2SE;
Sec. 30, lot 4, E2.

Tract 2: T. 16 S., R. 7 E., SLM, UT
Sec. 20, SENW, E2E2SWNW.

Emery County, Utah

containing 1,452.97 acres, more or less, together with the right to construct such works, buildings, plants, structures, equipment and appliances and the right to use such on-lease rights-of-way which may be necessary and convenient in the exercise of the rights and privileges granted, subject to the conditions herein provided.

APPENDIX D

MINE MAPS

AS REQUIRED UNDER R645-301-525.270.

CONTENTS

1999 COAL PRODUCTION REPORT

1999 COTTONWOOD MINE MAP (NO PRODUCTION ; MINING CEASED SEPT. 1995)
1999 DEER CREEK PRODUCTION MAP

1999 DESERET, BEEHIVE, AND LITTLE DOVE MINE MAP (NO PRODUCTION; MINE IS IN CESSATION. FACILITIES REMOVED AND PORTALS BACKFILLED)

1999 TRAIL MOUNTAIN PRODUCTION MAP

1999 RAPTOR NESTING

LOCATION MAP

LOCATED IN

CONFIDENTIAL FOLDER,

C/015/0019 2000

1999 COAL MINING PRODUCTION

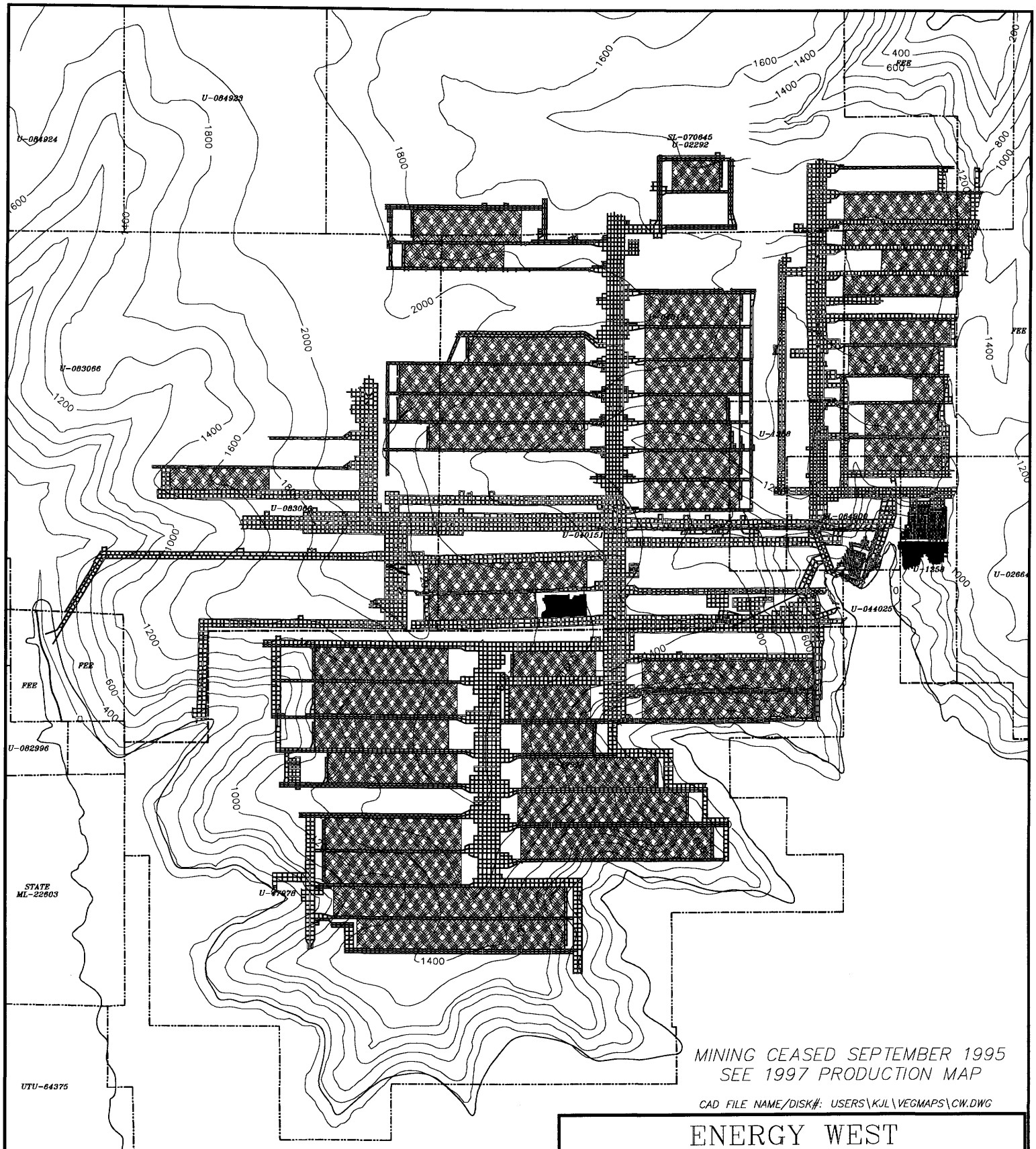
ENE[illegible]WEST MINING

PRO[illegible]TION STATISTICS

YEAR	TOTAL TONS PRODUCED					DAILY AVERAGE					UNIT SHIFT AVERAGE						T.P.M. - UMWA			T.P.M. - TOTAL		
	DEER CREEK		TRAIL MOUNTAIN		COMPANY	DEER CREEK		TRAIL MTN.		GRAND	DEER CREEK		TRAIL MOUNTAIN		TOTAL							TOTAL
	Total	L. W.	Total	L. W.	TOTAL	Total	L. W.	Total	L. W.	TOTAL	CM	LW	CM	LW	C.M.	L.W.	D. C.	T.M.	TOTAL	D.C.	T.M.	CO.
1978	1,274,909				2,531,921	7,357				14,610	436				461		20.0		23.0	16.0		18.0
1979	1,863,150	489,514			3,850,004	8,074	3,854			15,988	365	1,319			414	1,319	18.0		18.0	14.0		15.0
1980	2,101,104	811,328			4,565,728	8,576	3,739			18,613	404	1,489			431	1,419	19.3		19.3	15.5		15.4
1981	1,902,628	924,069			3,966,092	9,757	4,739			20,391	468	1,254			442	1,157	20.5		18.5	16.2		14.7
1982	2,371,936	1,267,252			5,094,737	9,945	5,313			21,228	425	1,029			425	1,000	20.6		20.1	16.5		15.9
1983	2,175,544	1,318,221			4,616,118	9,103	5,516			18,539	572	1,294			515	1,386	28.7		26.8	23.6		22.0
1984	1,894,317	1,314,669			4,049,136	8,873	6,163			18,833	483	1,497			463	1,667	28.0		30.9	22.8		25.1
1985	2,014,990	1,500,551	227,944		3,006,469	9,329	7,112	2,590		13,543	420	1,446	651		532	1,446	23.0	24.7	20.7	19.0	18.7	16.6
1986	2,062,280	1,594,891	1,244,808	691,867	4,060,193	10,752	8,315	7,061	9,884	21,169	471	2,465	573	4,143	623	2,809	30.0	26.0	29.0	24.1	19.8	22.8
1987	2,504,140	2,024,878	3,107,014	2,330,612	5,701,610	10,656	9,121	13,278	10,498	24,262	611	4,201	610	5,089	624	4,633	45.0	58.0	51.0	36.0	45.2	39.9
1988	2,935,100	2,361,031	3,446,893	2,385,478	6,381,993	12,255	10,540	14,544	11,957	26,787	583	4,485	820	6,000	718	5,137	45.8	60.9	52.9	36.8	46.7	41.4
1989	3,303,511	2,440,061	3,536,841	2,415,579	6,840,351	14,078	10,885	15,361	11,882	29,427	672	4,527	764	6,072	721	5,183	52.1	57.6	54.8	41.9	44.9	43.3
1990	3,356,225	2,702,285	3,834,812	2,921,430	7,191,037	14,656	12,396	17,196	14,182	31,819	680	4,987	858	7,057	773	5,883	56.0	64.9	60.4	45.0	50.5	47.8
1991	3,036,618	2,260,423	3,863,172	3,023,493	6,899,790	12,259	10,383	15,964	12,949	28,180	786	4,959	882	6,392	833	5,689	48.0	68.7	57.7	38.6	53.0	45.6
1992	3,539,175	2,713,325	3,266,473	2,582,572	6,805,648	15,245	12,983	14,780	13,143	30,037	787	5,923	750	5,937	770	5,930	59.7	60.2	59.9	47.2	45.9	46.6
1993	3,237,562	2,388,977	2,868,621	2,324,818	6,106,183	15,049	12,475	12,582	10,738	27,559	851	6,160	784	5,389	823	5,754	63.2	55.9	59.6	49.7	43.7	46.7
1994	4,022,410	3,178,327	3,498,055	2,717,410	7,520,465	16,972	13,940	13,992	11,918	30,885	936	7,094	763	5,869	844	6,472	80.1	66.8	73.3	62.3	51.9	57.0
1995	4,142,193	3,344,575	3,518,150	2,677,803	7,660,343	18,914	15,927	13,030	11,347	31,331	972	9,015	834	5,898	896	7,300	92.1	70.3	80.6	71.0	55.0	62.6
1996	4,337,999	3,557,575	3,825,647	3,132,125	8,163,646	20559	16861	15743	15506	35963	1,104	9289	980	8330	1,042	8814	92.2	74.5	83.0	71.2	57.4	64.0
1997																						
JAN	272,220	227,437	370,361	296,356	642,581	18148	15162	14245	12885	31345	1,092	8123	892	7599	958	7818	65.8	76.1	71.4	50.6	58.8	55.1
FEB	429,323	360,714	331,606	271,015	760,929	22596	18985	12754	15942	33819	1,089	10306	808	8469	936	9429	114.0	75.2	93.1	86.8	58.2	71.5
MAR	448,842	389,466	87,639	56,107	536,481	22442	19473	5477	5101	29804	1,042	10818	1017	2805	1,033	7957	110.8	19.5	62.7	85.3	15.1	48.5
APR	459,425	392,424	372,876	331,342	832,301	21877	23084	15536	13806	36991	971	11542	989	7530	978	9279	119.2	79.6	97.5	91.0	60.8	74.4
MAY	400,770	334,069	389,712	305,126	790,482	23575	20879	14434	13266	35931	1,112	10440	1159	7628	1,137	8878	99.4	80.0	88.8	77.8	63.0	69.7
JUNE	438,856	361,860	406,324	323,022	845,179	21943	21286	16253	12921	37564	1,167	10643	1082	7341	1,121	8781	105.4	81.4	92.3	83.6	64.5	73.2
JULY	244,980	191,872	305,971	242,266	550,951	16332	17443	13303	12751	28997	1,180	9137	980	7125	1,062	7893	62.2	73.5	68.0	48.4	56.9	52.8
AUG	278,118	219,358	237,873	200,206	515,991	23176	18280	13993	11777	35586	1,224	9140	919	6904	1,083	7916	89.7	61.7	74.1	69.2	48.3	57.7
SEPT	357,868	289,959	239,051	183,207	596,919	17893	14498	9562	9160	26530	1,095	8285	947	5388	1,023	6857	82.1	45.2	61.9	64.4	35.7	48.7
OCT	412,099	342,397	438,956	362,130	851,055	21689	18021	16258	13412	37002	1,040	9254	1024	6706	1,032	7742	98.1	83.5	90.0	76.7	66.1	70.9
NOV	344,148	282,980	345,147	281,639	689,295	22943	18865	16436	13411	38294	1,112	9758	948	7222	1,022	8303	93.0	73.8	82.3	74.1	60.3	66.5
DEC	393,057	324,507	402,053	330,790	795,110	21836	18028	15464	12723	36141	1,182	9272	1004	6891	1,084	7895	101.5	84.0	91.8	77.7	65.5	71.0
97YTD	4,479,705	3,717,042	3,927,570	3,183,205	8,407,275	22287	18679	14387	12582	35474	1,104	9782	981	6965	1,039	8244	95.0	69.7	81.2	73.7	54.6	63.4
1998																						
JAN	353,440	292,765	350,223	272,813	703,663	19,636	16,265	14,593	12,401	33,508	1,011	8,611	1,090	7,373	1,054	7,966	86.5	73.0	79.2	67.1	57.3	61.8
FEB	331,015	270,261	352,689	288,602	683,704	19,471	15,898	18,563	16,033	37,984	1,146	9,009	1,017	8,488	1,076	8,732	79.5	75.0	77.1	62.4	59.3	60.8
MAR	350,434	284,129	285,281	224,135	635,715	14,017	11,365	15,849	14,008	29,568	961	6,765	1,132	7,004	1,036	6,868	78.3	54.8	65.6	61.5	43.6	51.9
APR	359,153	296,753	296,299	261,312	655,452	13,302	10,991	14,815	13,066	27,892	975	7,238	972	6,533	974	6,890	91.1	78.9	85.1	70.2	59.3	64.8
MAY	323,513	259,796	218,837	188,365	542,350	16,176	12,990	10,942	10,465	27,117	1,118	7,423	846	5,708	1,013	6,591	79.9	58.9	69.8	63.6	45.8	55.0
JUNE	318,652	252,343	220,778	183,691	539,430	15,174	15,771	11,039	9,185	26,314	1,005	7,886	1,030	4,965	1,014	6,319	81.8	59.8	71.1	65.1	46.7	56.1
JULY	145,009	105,349	55,270	45,190	200,279	8,530	13,169	11,054	9,038	18,207	778	7,525	1,008	4,519	815	6,272	47.2	26.1	38.6	36.3	19.4	29.3
AUG	364,003	301,503	291,861	249,920	655,864	12,552	17,735	12,161	10,413	24,750	919	8,868	1,049	5,433	967	6,893	85.7	76.7	81.4	68.3	59.9	64.2
SEPT	282,737	223,188	243,187	208,679	525,924	10,875	10,628	10,133	8,695	21,037	916	6,200	986	4,637	941	5,332	68.3	64.3	66.4	53.9	49.3	51.7
OCT	196,426	154,858	323,545	279,820	519,971	10,913	11,061	12,942	11,193	24,185	1,014	6,452	1,215	6,360	1,108	6,392	39.4	77.7	56.8	32.4	61.0	45.7
NOV	347,797	268,396	347,907	312,669	695,704	11,993	11,669	14,496	13,028	26,253	1,018	7,063	1,215	7,817	1,071	7,450	76.5	91.1	83.2	63.5	72.3	67.6
DEC	375,696	297,516	430,781	392,745	806,477	13,915	11,443	18,730	17,076	32,259	1,101	7,084	1,463	8,926	1,198	8,026	87.8	111.7	99.1	69.0	85.8	77.1
98YTD	3,747,875	3,006,857	3,416,658	2,907,940	7,164,533	14,932	12,961	14,296	12,167	29,243	997	7,480	1,078	6,579	1,029	7,008	75.1	72.0	73.6	59.6	56.1	57.9
1999																						
JAN	299,519	217,635	375,098	356,691	674,617	10,328	9,068	17,862	16,985	26,985	1,092	6,045	1,150	8,917	1,102	7,557	72.2	99.5	85.2	58.0	77.1	67.3
FEB	172,549	99,706	361,201	341,057	533,750	8,627	8,309	14,448	13,642	23,722	1,156	4,335	1,259	8,526	1,177	6,996	36.3	92.5	61.6	28.8	70.3	47.9
MAR	458,234	380,027	323,008	297,515	781,242	19,093	20,001	17,000	16,529	36,337	1,117	10,001	1,214	8,750	1,140	9,410	95.7	73.8	85.2	79.0	59.0	69.3
APR	243,002	205,985	350,328	323,360	593,329	11,046	9,363	18,438	17,019	28,943	771	6,437	1,226	9,239	914	7,901	53.1	94.7	71.7	41.7	71.4	55.3
MAY	418,118	373,357	351,006	312,112	769,124	23,229	20,742	19,500	17,340	42,729	785	8,485	1,296	9,180	962	8,788	105.6	100.8	103.4	82.6	77.1	80.0
JUNE	346,271	309,448	246,534	214,751	592,805	19,237	20,630	16,436	14,317	35,928	898	10,315	1,222	8,260	1,024	9,361	87.5	76.2	82.4	69.2	58.9	64.5
JULY	96,097	68,160	178,404	160,299	274,501	6,864	13,632	16,219	14,573	21,960	847	9,737	1,132	8,015	940	8,461	55.0	101.3	78.3	39.2	65.4	53.0
AUG	438,389	370,551	295,442	268,775	733,831	16,861	18,528	11,363	10,337	28,224	881	9,751	1,111	7,905	936	8,880	101.9	67.4	84.5	81.0	54.8	67.9
SEPT	379,682	321,755	233,946	216,103	613,628	13,560	15,322	10,172	9,396	24,064	878	9,193	1,190	6,174	935	7,684	89.8	55.8	72.9	71.6	43.9	57.7
OCT	396,234	335,882	403,118	386,500	799,352	13,663	17,678	15,505	14,865	29,067	827	9,879	1,187	9,202	885	9,505	91.4	105.6	98.1	74.5	82.9	78.5
NOV	368,529	327,401	371,425	347,972	739,954	17,549	15,591	14,857	13,919	32,172	839	9,094	1,380	8,922	979	9,005	90.3	99.7	94.8	72.7	79.1	75.8
DEC	214,123	189,433	396,343	369,515	610,466	10,706	9,472	16,514	15,396	27,748	823	6,532	1,341	9,987	1,030	8,469	45.0	102.4	70.7	36.7	79.9	56.5
99YTD	3,830,746	3,199,340	3,885,854	3,594,649	7,716,598	15,023	14,812	15,481	14,321	30,500	926	8,375	1,229	8,641	1,004	8,514	77.2	87.9	82.2	61.5	68.1	64.7

COTTONWOOD MINE

PRODUCTION MAP



ENERGY WEST
MINING COMPANY
HUNTINGTON, UTAH 84528

COTTONWOOD MINE
1999 PRODUCTION MAP

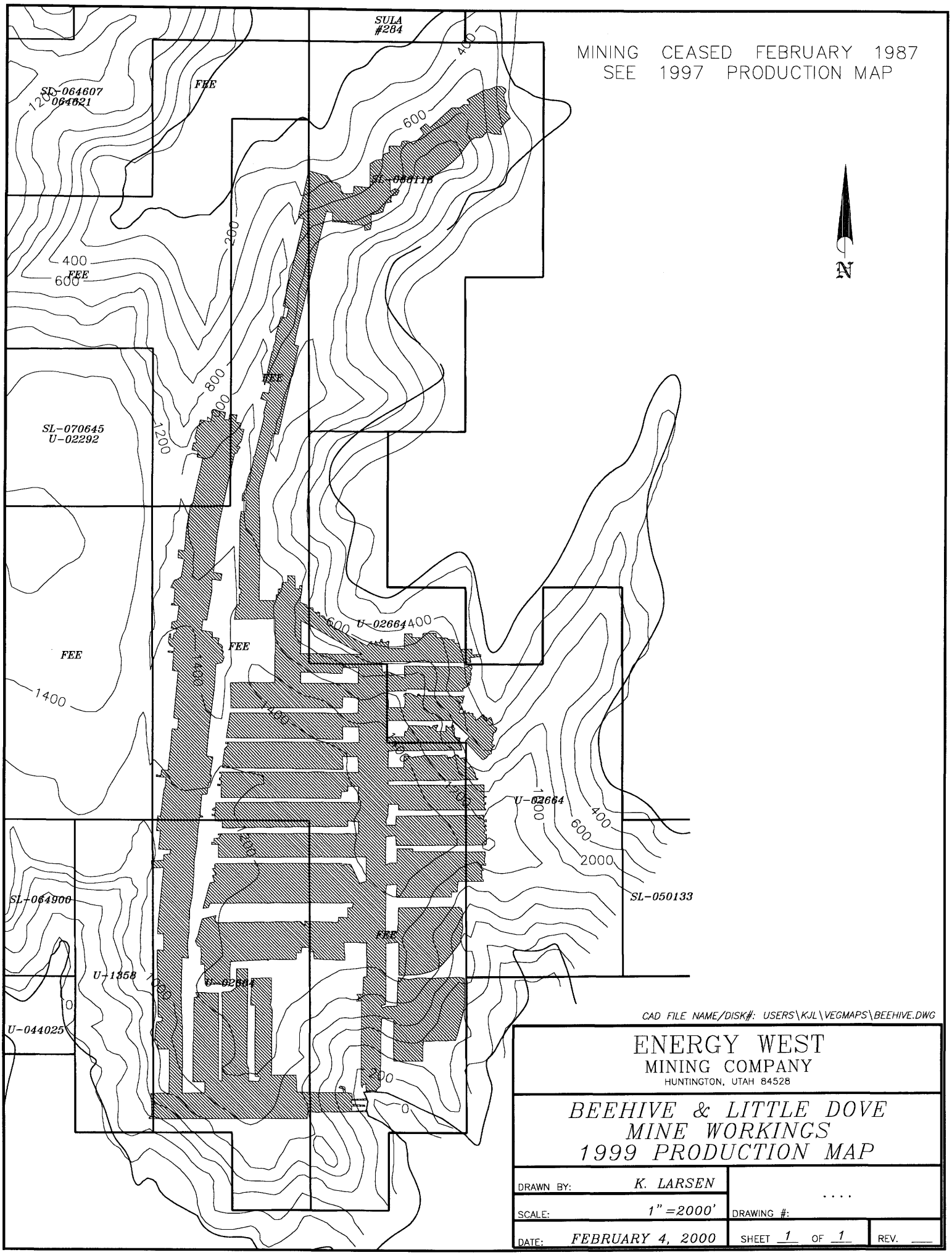
DRAWN BY:	K. LARSEN	....	
SCALE:	NONE	DRAWING #:	
DATE:	FEBRUARY 4, 2000	SHEET 1 OF 1	REV. ___

DEER CREEK MINE

PRODUCTION MAP

DES BEE DOVE MINES

PRODUCTION MAPS

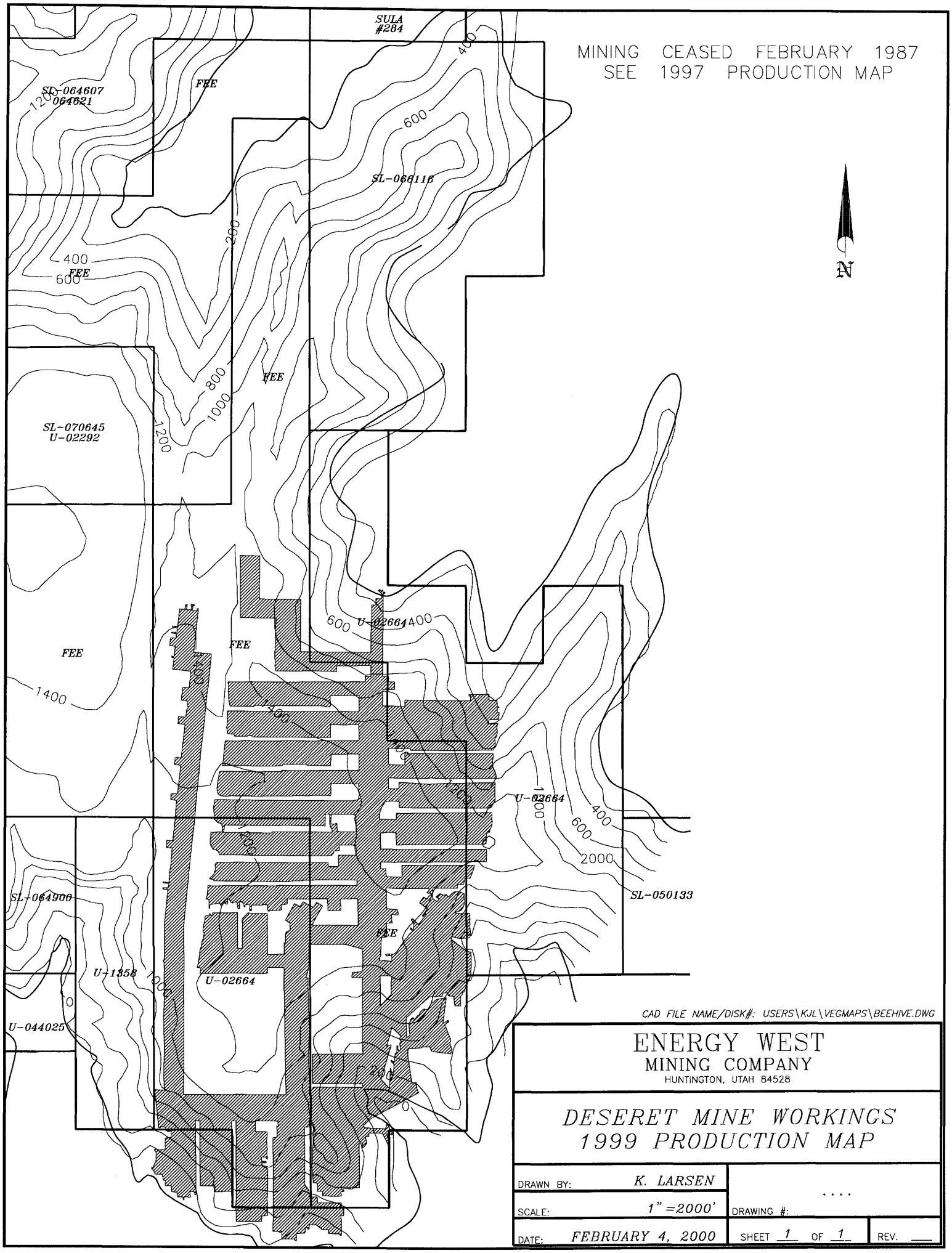


CAD FILE NAME/DISK#: USERS\KJL\VEGMAPS\BEEHIVE.DWG

ENERGY WEST
MINING COMPANY
HUNTINGTON, UTAH 84528

BEEHIVE & LITTLE DOVE
MINE WORKINGS
1999 PRODUCTION MAP

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



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

ENERGY WEST
MINING COMPANY
HUNTINGTON, UTAH 84528

DESERET MINE WORKINGS 1999 PRODUCTION MAP

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

TRAIL MOUNTAIN MINE

PRODUCTION MAP

APPENDIX E

OTHER INFORMATION

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

CONTENTS

UPDES EXPIRATION DATES (ALL MINES)

TRAIL MOUNTAIN MINE SEDIMENT POND ANALYSIS REPORT

WASTE ROCK ANALYSIS REPORTS
DEER CREEK MINE
COTTONWOOD MINE

ROOF, FLOOR AND MID-SEAM ANALYSIS REPORTS
DEER CREEK MINE
TRAIL MOUNTAIN MINE

COAL/ROCK RATIO REPORT: COTTONWOOD MINE

UPDES EXPIRATION DATES

Permit No. UT0022896
Minor Industrial

STATE OF UTAH
DIVISION OF WATER QUALITY
DEPARTMENT OF ENVIRONMENTAL QUALITY
SALT LAKE CITY, UTAH

AUTHORIZATION TO DISCHARGE UNDER THE

UTAH POLLUTANT DISCHARGE ELIMINATION SYSTEM
(UPDES)

In compliance with provisions of the Utah *Water Quality Act, Title 19, Chapter 5, Utah Code Annotated ("UCA") 1953, as amended* (the *"Act"*),

PacifiCorp-Wilberg Mine

is hereby authorized to discharge from its facility located approximately 8 miles northwest of Orangeville In Emery County, Utah, with the outfalls:

001 located at latitude **39°19'14"** and longitude **111°07'20"**,
002 located at latitude **39°18'56"** and longitude **111°11'15"**,
003 located at latitude **39°19'07"** and longitude **111°07'13"**,
004 located at latitude **39°18'43"** and longitude **111°10'35"**,
005 located at latitude **39°17'43"** and longitude **111°07'18"**,

to receiving waters named **Grimes Wash and Cottonwood Creek**
in accordance with discharge points, effluent limitations, monitoring requirements and other conditions set forth herein.

This permit shall become effective on November 1, 1997

This permit and the authorization to discharge shall expire at midnight,October 31, 2002.

Signed this 24th day of October, 1997

Authorized Permitting Official
Executive Secretary
Utah Water Quality Board

Permit No. UTG040000
Industrial

STATE OF UTAH
DIVISION OF WATER QUALITY
DEPARTMENT OF ENVIRONMENTAL QUALITY
SALT LAKE CITY, UTAH

AUTHORIZATION TO DISCHARGE UNDER THE

UTAH POLLUTANT DISCHARGE ELIMINATION SYSTEM
(UPDES)

GENERAL PERMIT FOR COAL MINING

In compliance with provisions of the Utah *Water Quality Act, Title 19, Chapter 5, Utah Code Annotated ("UCA") 1953, as amended* (the *"Act"*),

Interwest Mining Co. Des Bee Dove

located seven (7) miles northeast of Castle Dale, Utah as identified in the application No. UTG040022 is authorized to discharge from outfall 001 located at latitude **39°18'18"** and longitude **111°05'43"**

to Grimes Wash

in accordance with discharge point(s), effluent limitations, monitoring requirements and other conditions set forth herein.

This permit became effective on June 1, 1998.

This general permit and the authorization to discharge shall expire at midnight, April 30, 2003.

Signed this 9th day of June, 1998

Authorized Permitting Official
Executive Secretary
Utah Water Quality Board

Permit No. UT0023604
Minor Industrial

STATE OF UTAH
DIVISION OF WATER QUALITY
DEPARTMENT OF ENVIRONMENTAL QUALITY
SALT LAKE CITY, UTAH

AUTHORIZATION TO DISCHARGE UNDER THE

UTAH POLLUTANT DISCHARGE ELIMINATION SYSTEM
(UPDES)

In compliance with provisions of the Utah *Water Quality Act, Title 19, Chapter 5, Utah Code Annotated ("UCA") 1953, as amended* (the *"Act"*),

PacifiCorp-Deer Creek Coal Mine

is hereby authorized to discharge from its facility located approximately eight (8) miles northwest of Huntington In Emery County, Utah, with the outfalls:

001 located at latitude **39°21'36"** and longitude **111°06'35"**,
002 located at latitude **39°21'29"** and longitude **111°06'57"**,

to receiving waters named **Deer Creek**

in accordance with discharge points, effluent limitations, monitoring requirements and other conditions set forth herein.

This permit shall become effective on December 1, 1997

This permit and the authorization to discharge shall expire at midnight, November 30, 2002.

Signed this 21st day of November, 1997

Authorized Permitting Official
Executive Secretary
Utah Water Quality Board

Permit No. UT0023728
Minor Industrial

Effective 12-1-98

STATE OF UTAH
DIVISION OF WATER QUALITY
DEPARTMENT OF ENVIRONMENTAL QUALITY
SALT LAKE CITY, UTAH

AUTHORIZATION TO DISCHARGE UNDER THE

UTAH POLLUTANT DISCHARGE ELIMINATION SYSTEM
(UPDES)

In compliance with provisions of the Utah *Water Quality Act, Title 19, Chapter 5, Utah Code Annotated ("UCA") 1953, as amended* (the *"Act"*),

Interwest Mining Company-Trail Mountain Mine

is hereby authorized to discharge from its facility located approximately twelve (12) miles northwest of Orangeville, Emery County, Utah, with the outfalls:

001 located at latitude **39°19'00"** and longitude **111°11'20"**,
002 located at latitude **39°19'03"** and longitude **111°11'25"**,

to receiving waters named **Cottonwood Canyon Creek**

in accordance with discharge points, effluent limitations, monitoring requirements and other conditions set forth herein.

This permit shall become effective on December 1, 1998.

This permit and the authorization to discharge shall expire at midnight, November 30, 2002.

Signed this 21 day of October, 1998.

Authorized Permitting Official
Executive Secretary
Utah Water Quality Board

TRAIL MOUNTAIN SEDIMENT POND ANALYSIS REPORT

Inter-Mountain Laboratories, Inc.

1633 Terra Avenue
Sheridan, WY 82801

Energy West Mining Co.

Huntington, UT

Client Project ID: Trail Mountain Mine

Set #0100S03546

Date Received: 02/10/00

Report Date: 02/21/00

Lab Id	Sample Id	pH s.u.	EC @ 25°C mmhos/cm	Saturation %	Calcium meq/L	Magnesium meq/L	Sodium meq/L	SAR	Sand %	Silt %	Clay %	Texture
0100S03546	TMO100	7.6	9.26	40.8	26.8	26.5	52.3	10.1	54.0	28.0	18.0	SANDY LOAM

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neut. Pot.= Neutralization Potential

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed By: _____

Joey Sheeley
Soils Lab Supervisor

.ain Laboratories, Inc.

1633 Terra Avenue
Sheridan, WY 82801

Energy West Mining Co.

Huntington, UT

Client Project ID: Trail Mountain Mine

Date Received: 02/10/00

Set #0100S03546

Report Date: 02/21/00

Lab Id	Sample Id	TOC %	Total Sulfur %	T.S. AB t/1000t	Neutral. Pot. t/1000t	T.S. ABP t/1000t	Boron ppm	Selenium ppm
0100S03546	TMO100	33.7	0.45	14.1	300	286	3.21	<0.02

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neut. Pot.= Neutralization Potential

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed By: _____

Joey Sheeley

Soils Lab Supervisor

WASTE ROCK ANALYSIS REPORTS: DEER CREEK MINE COTTONWOOD MINE

Inter-Mountain Laboratories, Inc.

1633 [illegible] Avenue
Sheridan, WY 82801

Energy West Mining Co.

Huntington, UT

Client Project ID: Overburden

Date Received: 03/01/99

Set #0199S01211

Report Date: 03/16/99

Lab Id	Sample Id	Depths (Feet)	pH s.u.	EC @ 25°C mmhos/cm	Calcium meq/L	Magnesium meq/L	Sodium meq/L	SAR
0199S[illegible]1	DC 0199	N/A	7.4	9.38	38.2	24.2	51.9	9.30
0199S01212	DC 0299	N/A	7.8	7.83	38.7	8.89	42.2	8.66
0199S01213	CTW 0199	N/A	8.3	1.40	0.44	0.45	12.9	19.3
0199S01214	CTW 0299	N/A	7.4	24.2	47.8	89.0	197	23.8

Reviewed By:

Joey Sheeley
Soils Lab Supervisor

Inter-Mountain Laboratories, Inc.

1633 [redacted] Avenue
Sheridan, WY 82801

Energy West Mining Co.

Huntington, UT

Client Project ID: Overburden

Date Received: 03/01/99

Set #0199S01211

Report Date: 03/16/99

Lab Id	Sample Id	Depths (Feet)	Sand %	Silt %	Clay %	Texture	Boron ppm	Selenium ppm	Color
0199S01211	DC 0199	N/A	77.0	6.0	17.0	SANDY LOAM	0.80	0.02	5Y3/1 V.Dk.Gry
0199S01212	DC 0299	N/A	75.0	12.0	13.0	SANDY LOAM	1.06	0.04	5Y 2.5/1 Black
0199S01213	CTW 0199	N/A	79.0	10.0	11.0	SANDY LOAM	1.02	0.02	2.5Y2.5/1 Blck
0199S01214	CTW 0299	N/A	74.0	5.0	21.0	SANDY CLAY LOAM	2.96	0.12	2.5Y2.5/1 Blck

Reviewed By:

Joey Sheeley
Soils Lab Supervisor

Inter-Mountain Laboratories, Inc.

1633 [redacted] Avenue
Sheri[redacted] WY 82801

Energy West Mining Co.

Huntington, UT

Client Project ID: Overburden

Date Received: 03/01/99

Set #0199S01216

Report Date: 03/15/99

Lab Id	Sample Id	Depths (Feet)	Sand %	Silt %	Clay %	Texture
0199S01216	DC 0199 (Fines)	N/A	53.0	30.0	17.0	SANDY LOAM
0199S01217	DC 0299 (Fines)	N/A	59.0	24.0	17.0	SANDY LOAM
0199S01218	CTW 0199 (Fines)	N/A	51.3	29.9	18.8	LOAM
0199S01219	CTW 0299 (Fines)	N/A	41.0	35.0	24.0	LOAM

Reviewed By:

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1633 Terra Avenue
Sheridan, WY 82801

Energy West Mining Co.

Huntington, UT

Client Project ID: Deer Creek WRS

Date Received: 09/22/99

Set #0199S13854

Report Date: 10/05/99

Lab Id	Sample Id	Depths (Inches)	pH s.u.	EC @ 25°C mmhos/cm	Calcium meq/L	Magnesium meq/L	Sodium meq/L	SAR	Sand %	Silt %	Clay %	Texture
199S13854	DC0399	0 - 6	9.9	26.1	81.4	0.63	109	17.0	65.0	15.0	20.0	SANDY CLAY LOAM
199S13855	DC0499	0 - 6	8.3	10.7	39.6	20.3	49.5	9.05	45.0	19.0	36.0	SANDY CLAY

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neut. Pot.= Neutralization Potential

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed By: _____

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Soils Lab Supervisor

Inter-Mountain Laboratories, Inc.

1633 Terra Avenue
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Energy West Mining Co.

Huntington, UT

Client Project ID: Deer Creek WRS

Date Received: 09/22/99

Set #0199S13854

Report Date: 10/05/99

Lab Id	Sample Id	Depths (Inches)	Boron ppm	Selenium ppm	Color
199S13854	DC0399	0 - 6	1.25	0.08	7.5 YR 2.5/1 B
199S13855	DC0499	0 - 6	1.27	0.04	7.5 YR 2.5/1 B

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neut. Pot.= Neutralization Potential

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed By: _____

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Energy West Mining Co.

Huntington, UT

Client Project ID: Overburden

Date Received: 06/18/99

Set #0199S05925

Report Date: 07/02/99

Lab Id	Sample Id	pH	EC @ 25°C	Calcium	Magnesium	Sodium	SAR	Sand	Silt	Clay	Texture
		s.u.	mmhos/cm	meq/L	meq/L	meq/L		%	%	%	
0 05925	CTW 0499	7.5	14.9	39.7	25.7	107	18.7	62.0	21.0	17.0	SANDY LOAM
0199S05926	CTW 0599	7.6	14.1	35.6	23.1	102	18.8	66.0	20.0	14.0	SANDY LOAM

Reviewed By:

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Inter-Mountain Laboratories, Inc.

1633 a Avenue
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Energy West Mining Co.

Huntington, UT

Client Project ID: Overburden

Date Received: 06/18/99

Set #0199S05925

Report Date: 07/02/99

Lab Id	Sample Id	Boron ppm	Selenium ppm	Color
0 05925	CTW 0499	<0.05	0.04	2.5Y 2.5/1 Blc
0199S05926	CTW 0599	<0.05	0.04	10YR 3/1 Vdk G

Reviewed By:

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1633 a Avenue
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Energy West Mining Co.

Huntington, UT

Client Project ID: Overburden

Date Received: 06/18/99

Set #0199S05925

Report Date: 06/30/99

Lab Id	Sample Id	Sand %	Silt %	Clay %	Texture
C 05925	CTW 0499	45.0	36.0	19.0	LOAM
0199S05926	CTW 0599	44.0	36.0	20.0	LOAM

These are the analyses for the Fines portion of each sample

Reviewed By:

Joey Sheeley
Soils Lab Supervisor

ROOF, FLOOR AND MID-SEAM ANALYSIS REPORTS: DEER CREEK MINE TRAIL MOUNTAIN MINE

Inter-Mountain Laboratories, Inc.

1633 Terra Avenue
Sheridan, WY 82801

Energy West Mining Co.

Huntington, UT

Client Project ID: Deer Creek Mine

Date Received: 01/25/00

Set #0100S02152

Report Date: 02/08/00

Lab Id	Sample Id	pH	Saturation	EC @ 25°C	Calcium	Magnesium	Sodium	SAR
		s.u.	%	mmhos/cm	meq/L	meq/L	meq/L	
0100S02152	DC 2399	6.6	32.4	2.56	15.5	17.2	2.36	0.58
0100S02153	DC 2499	7.1	26.8	2.05	11.7	11.6	2.10	0.62
0100S02154	DC 2599	7.1	23.1	2.10	11.8	10.1	3.38	1.02
0100S02155	DC 2699	7.5	25.1	0.75	1.48	2.43	2.76	1.98
0100S02156	DC 2799	7.1	58.5	0.34	1.04	0.67	1.61	1.74
0100S02157	DC 2899	7.0	22.2	0.93	3.05	4.51	1.79	0.92

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neut. Pot.= Neutralization Potential

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed By: _____

Joey Sheeley

Soils Lab Supervisor

Inter-Mountain Laboratories, Inc.

1633 Terra Avenue
Sheridan, WY 82801

Energy West Mining Co.

Huntington, UT

Client Project ID: Deer Creek Mine

Date Received: 01/25/00

Set #0100S02152

Report Date: 02/08/00

Lab Id	Sample Id	Coarse Fragments %	Sand %	Silt %	Clay %	Texture	1/3 Bar %	15 Bar %
0100S02152	DC 2399	100.0	63.0	15.0	22.0	SANDY CLAY LOAM	10.1	6.3
0100S02153	DC 2499	100.0	61.0	17.0	22.0	SANDY CLAY LOAM	12.0	6.0
0100S02154	DC 2599	100.0	73.0	13.0	14.0	SANDY LOAM	9.0	4.0
0100S02155	DC 2699	100.0	89.0	7.0	4.0	SAND	5.0	1.0
0100S02156	DC 2799	100.0	97.0	1.0	2.0	SAND	3.0	3.3
0100S02157	DC 2899	100.0	76.0	18.0	6.0	SANDY LOAM	11.4	2.0

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neut. Pot.= Neutralization Potential

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed By: _____

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Inter-Mountain Laboratories, Inc.

1633 Terra Avenue
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Energy West Mining Co.

Huntington, UT

Client Project ID: Deer Creek Mine

Date Received: 01/25/00

Set #0100S02152

Report Date: 02/08/00

Lab Id	Sample Id	TOC %	Total Sulfur %	T.S. AB t/1000t	Neutral. Pot. t/1000t	T.S. ABP t/1000t	Sulfate-Sulfur %	Pyritic-Sulfur %	Organic-Sulfur %	PyrS AB t/1000t	PyrS ABP t/1000t
0100S02152	DC 2399	16.6	0.54	16.9	46.8	30.0					
0100S02153	DC 2499	10.7	0.41	12.8	185	173					
0100S02154	DC 2599	7.8	0.36	11.2	450	439					
0100S02155	DC 2699	0.7	<0.01	0.00	301	301					
0100S02156	DC 2799	94.2	0.83	25.9	11.1	-14.9	0.04	0.19	0.60	5.94	5.13
0100S02157	DC 2899	5.6	<0.01	0.00	290	290					

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neut. Pot.= Neutralization Potential

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed By: _____

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Energy West Mining Co.

Huntington, UT

Client Project ID: Deer Creek Mine

Date Received: 01/25/00

Set #0100S02152

Report Date: 02/08/00

Lab Id	Sample Id	Boron ppm	Nitrogen Nitrate ppm	TKN %	Selenium ppm	Available Sodium meq/100g	Exchangeable Sodium meq/100g
0100S02152	DC 2399	0.65	0.50	0.24	0.32	0.55	0.47
0100S02153	DC 2499	0.64	5.80	0.13	0.12	0.49	0.43
0100S02154	DC 2599	0.54	0.34	0.07	0.04	0.61	0.53
0100S02155	DC 2699	0.05	0.82	<0.01	<0.02	0.30	0.23
0100S02156	DC 2799	0.50	0.36	1.32	<0.02	0.49	0.40
0100S02157	DC 2899	0.07	0.24	<0.01	<0.02	0.51	0.47

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neut. Pot.= Neutralization Potential

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed By: _____

Joey Sheeley

Soils Lab Supervisor

Inter-Mountain Laboratories, Inc.

1633 Terra Avenue
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Energy West Mining Co.

Huntington, UT

Client Project ID: Deer Creek Mine

Date Received: 01/25/00

Set #0100S02152

Report Date: 02/08/00

Lab Id	Sample Id	pH	Saturation	EC @ 25°C	Calcium	Magnesium	Sodium	SAR
		s.u.	%	mmhos/cm	meq/L	meq/L	meq/L	
0100S02156	DC 2799	7.1	58.5	0.34	1.04	0.67	1.61	1.74
0100S02156D	DC 2799	7.1	56.6	0.34	1.06	0.53	1.37	1.53

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neut. Pot.= Neutralization Potential

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Energy West Mining Co.

Huntington, UT

Client Project ID: Deer Creek Mine

Date Received: 01/25/00

Set #0100S02152

Report Date: 02/08/00

Lab Id	Sample Id	Coarse Fragments %	Sand %	Silt %	Clay %	Texture	1/3 Bar %	15 Bar %
0100S02156	DC 2799	100.0	97.0	1.0	2.0	SAND	3.0	3.3
0100S02156D	DC 2799		96.0	2.0	2.0	SAND	3.0	3.2

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neut. Pot.= Neutralization Potential

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Sheridan, WY 82801

Energy West Mining Co.

Huntington, UT

Client Project ID: Deer Creek Mine

Date Received: 01/25/00

Set #0100S02152

Report Date: 02/08/00

Lab Id	Sample Id	TOC %	Total Sulfur %	T.S. AB t/1000t	Neutral. Pot. t/1000t	T.S. ABP t/1000t	Sulfate-Sulfur %	Pyritic-Sulfur %	Organic-Sulfur %	PyrS AB t/1000t	PyrS ABP t/1000t
0100S02156	DC 2799	94.2	0.83	25.9	11.1	-14.9	0.04	0.19	0.60	5.94	5.13
0100S02156D	DC 2799	94.2	0.82	25.6	11.2	-14.4	0.04	0.16	0.62	5.00	6.22

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neut. Pot.= Neutralization Potential

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Reviewed By: _____

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Soils Lab Supervisor

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1633 Terra Avenue
Sheridan, WY 82801

Energy West Mining Co.

Huntington, UT

Client Project ID: Deer Creek Mine

Date Received: 01/25/00

Set #0100S02152

Report Date: 02/08/00

Lab Id	Sample Id	Boron ppm	Nitrogen Nitrate ppm	TKN %	Selenium ppm	Available Sodium meq/100g	Exchangeable Sodium meq/100g
0100S02156	DC 2799	0.50	0.36	1.32	<0.02	0.49	0.40
0100S02156D	DC 2799	0.47	0.16	1.11	<0.02	0.52	0.44

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neut. Pot.= Neutralization Potential

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed By: _____

Joey Sheeley

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1633 Terra Avenue
Sheridan, WY 82801

Energy West Mining Co.

Huntington, UT

Client Project ID: Overburden

Date Received: 12/22/99

Set #0199S20062

Report Date: 01/14/00

Lab Id	Sample Id	pH s.u.	Saturation %	EC @ 25°C mmhos/cm	Calcium meq/L	Magnesium meq/L	Sodium meq/L	SAR
0199S20062	TM0499	7.5	26.8	0.80	1.17	1.17	4.46	4.12
0199S20063	TM0599	8.3	43.8	0.87	0.10	0.07	8.44	29.2
0199S20064	TM0699	7.4	35.3	1.56	0.92	0.51	13.1	15.5

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neut. Pot.= Neutralization Potential

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Energy West Mining Co.

Huntington, UT

Client Project ID: Overburden

Date Received: 12/22/99

Set #0199S20062

Report Date: 01/14/00

Lab Id	Sample Id	Coarse Fragments %	Sand %	Silt %	Clay %	Texture	1/3 Bar Field Cap.	15 Bar Wilt Pt.
0199S20062	TM0499	100.0	79.0	8.0	13.0	SANDY LOAM	22.0	5.0
0199S20063	TM0599	100.0	91.0	4.0	5.0	SAND	4.2	3.3
0199S20064	TM0699	100.0	85.0	10.0	5.0	LOAMY SAND	3.0	2.2

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neut. Pot.= Neutralization Potential

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed By: _____

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1633 Terra Avenue
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Energy West Mining Co.

Huntington, UT

Client Project ID: Overburden

Date Received: 12/22/99

Set #0199S20062

Report Date: 01/14/00

Lab Id	Sample Id	TOC %	Total Sulfur %	T.S. AB t/1000t	Neutral. Pot. t/1000t	T.S. ABP t/1000t	Sulfate-Sulfur %	Pyritic-Sulfur %	Organic-Sulfur %	PyrS AB t/1000t	PyrS ABP t/1000t
0199S20062	TM0499	26.5	0.55	17.2	153	136					
0199S20063	TM0599	69.6	0.50	15.6	13.8	-1.81	0.12	0.04	0.34	1.25	12.6
0199S20064	TM0699	53.4	2.00	62.5	14.1	-48.3	0.17	0.88	0.95	27.5	-13.4

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neut. Pot.= Neutralization Potential

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Sheridan, WY 82801

Energy West Mining Co.

Huntington, UT

Client Project ID: Overburden

Date Received: 12/22/99

Set #0199S20062

Report Date: 01/14/00

Lab Id	Sample Id	Boron ppm	Selenium ppm	Nitrogen Nitrate ppm	TKN %	Available Sodium ppm	Exch. Sodium meq/100g
0199S20062	TM0499	2.05	0.02	0.74	0.40	0.73	0.61
0199S20063	TM0599	3.44	0.04	0.26	0.59	2.57	2.20
0199S20064	TM0699	2.23	0.02	0.28	0.67	0.96	0.50

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neut. Pot.= Neutralization Potential

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed By: _____

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Inter-Mountain Laboratories, Inc.

1633 Terra Avenue
Sheridan, WY 82801

Energy West Mining Co.

Huntington, UT

Client Project ID: Overburden

Date Received: 12/22/99

Set #0199S20025

Report Date: 01/14/00

Lab Id	Sample Id	pH s.u.	Saturation %	EC @ 25°C mmhos/cm	Calcium meq/L	Magnesium meq/L	Sodium meq/L	SAR
0199S20025	TM0199	6.7	26.8	4.18	20.3	19.4	15.6	3.49
0199S20026	TM0299	9.2	25.6	1.98	0.21	0.19	19.4	43.6
0199S20027	TM0399	7.4	58.2	0.41	0.78	0.70	2.56	2.98
0199S20028	TM0799	8.4	23.8	2.90	0.52	0.45	27.3	39.2
0199S20029	TM0899	7.4	58.5	0.62	0.92	0.46	4.39	5.29
0199S20030	TM0999	4.2	30.8	5.42	23.3	43.6	9.35	1.62
0199S20031	TM1099	6.7	38.7	3.11	3.11	1.91	26.0	16.4
0199S20032	TM1199	8.2	50.5	0.68	0.12	0.08	6.80	21.9
0199S20033	TM1299	6.4	32.1	3.32	16.8	10.6	13.6	3.68
0199S20034	TM1399	8.9	22.7	1.61	0.27	0.18	16.7	35.0
0199S20035	TM1499	8.0	47.4	0.66	0.07	0.05	6.40	25.7
0199S20036	TM1599	8.4	25.4	1.14	0.50	1.12	8.54	9.50

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neut. Pot.= Neutralization Potential

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed By: _____

Joey Sheeley

Soils Lab Supervisor

Inter-Mountain Laboratories, Inc.

1633 Terra Avenue
Sheridan, WY 82801

Energy West Mining Co.

Huntington, UT

Client Project ID: Overburden

Date Received: 12/22/99

Set #0199S20025

Report Date: 01/14/00

Lab Id	Sample Id	Coarse Fragments %	Sand %	Silt %	Clay %	Texture	1/3 Bar Field Cap.	15 Bar Wilt Pt.
0199S20025	TM0199	100.0	95.0	3.0	2.0	SAND	5.0	1.2
0199S20026	TM0299	100.0	75.0	13.0	12.0	SANDY LOAM	8.2	4.0
0199S20027	TM0399	100.0	95.0	3.0	2.0	SAND	6.0	4.5
0199S20028	TM0799	100.0	78.0	12.0	10.0	SANDY LOAM	8.4	3.1
0199S20029	TM0899	100.0	97.0	2.0	1.0	SAND	6.0	4.4
0199S20030	TM0999	100.0	87.0	9.0	4.0	LOAMY SAND	4.0	3.0
0199S20031	TM1099	100.0	91.0	5.0	4.0	SAND	4.5	3.5
0199S20032	TM1199	100.0	94.0	5.0	1.0	SAND	5.0	4.0
0199S20033	TM1299	100.0	91.0	8.0	1.0	SAND	3.0	2.0
0199S20034	TM1399	100.0	53.0	27.0	20.0	SANDY CLAY LOAM	14.0	5.0
0199S20035	TM1499	100.0	93.0	6.0	1.0	SAND	4.0	3.4
0199S20036	TM1599	100.0	93.0	5.0	2.0	SAND	12.4	1.3

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neut. Pot.= Neutralization Potential

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed By: _____

Joey Sheeley

Soils Lab Supervisor

Inter-Mountain Laboratories, Inc.

1633 Terra Avenue
Sheridan, WY 82801

Energy West Mining Co.

Huntington, UT

Client Project ID: Overburden

Date Received: 12/22/99

Set #0199S20025

Report Date: 01/14/00

Lab Id	Sample Id	TOC %	Total Sulfur %	T.S. AB t/1000t	Neutral. Pot. t/1000t	T.S. ABP t/1000t	Sulfate-Sulfur %	Pyritic-Sulfur %	Organic-Sulfur %	PyrS AB t/1000t	PyrS ABP t/1000t
0199S20025	TM0199	3.0	0.84	26.2	47.6	21.4					
0199S20026	TM0299	6.2	<0.01	0.00	524	524					
0199S20027	TM0399	86.2	0.35	10.9	90.0	79.1					
0199S20028	TM0799	9.6	0.03	0.94	404	403					
0199S20029	TM0899	90.8	0.52	16.2	13.8	-2.43	0.01	0.07	0.44	2.19	11.6
0199S20030	TM0999	30.2	2.87	89.7	0.04	-89.6	0.04	2.22	0.61	69.4	-69.3
0199S20031	TM1099	56.5	1.77	55.3	15.7	-39.6	0.02	1.01	0.74	31.6	-15.8
0199S20032	TM1199	76.2	0.60	18.7	17.8	-0.93	0.05	0.04	0.51	1.25	16.6
0199S20033	TM1299	35.0	2.54	79.3	5.02	-74.3	0.93	0.90	0.71	28.1	-23.1
0199S20034	TM1399	5.7	<0.01	0.00	460	460					
0199S20035	TM1499	72.9	0.37	11.6	10.3	-1.30	0.03	0.05	0.29	1.56	8.70
0199S20036	TM1599	12.2	0.01	0.31	521	520					

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

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Set #0199S20025

Report Date: 01/14/00

Lab Id	Sample Id	Boron ppm	Selenium ppm	Nitrogen Nitrate ppm	TKN %	Available Sodium ppm	Exch. Sodium meq/100g
0199S20025	TM0199	0.32	0.02	2.48	0.04	0.90	0.48
0199S20026	TM0299	1.59	0.04	0.36	0.05	4.39	3.89
0199S20027	TM0399	3.28	<0.02	0.32	0.98	0.52	0.37
0199S20028	TM0799	1.11	0.06	1.22	0.10	3.15	2.50
0199S20029	TM0899	2.55	0.02	0.38	1.05	0.88	0.62
0199S20030	TM0999	0.74	0.02	0.62	0.34	0.72	0.43
0199S20031	TM1099	1.62	0.08	0.22	0.54	2.16	1.15
0199S20032	TM1199	2.94	0.02	0.10	0.93	1.92	1.58
0199S20033	TM1299	3.05	0.02	0.26	0.41	1.01	0.57
0199S20034	TM1399	3.11	0.02	0.22	0.07	5.44	5.06
0199S20035	TM1499	3.53	0.02	0.26	0.91	1.99	1.69
0199S20036	TM1599	1.13	0.02	0.20	0.07	1.02	0.80

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neut. Pot.= Neutralization Potential

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

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Date Received: 12/22/99

Set #0199S20025

Report Date: 01/14/00

Lab Id	Sample Id	pH s.u.	Saturation %	EC @ 25°C mmhos/cm	Calcium meq/L	Magnesium meq/L	Sodium meq/L	SAR
0199S20035	TM1499	8.0	47.4	0.66	0.07	0.05	6.40	25.7
0199S20035D	TM1499	8.0	49.7	0.67	0.11	0.09	6.35	20.1

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neut. Pot.= Neutralization Potential

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

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Date Received: 12/22/99

Set #0199S20025

Report Date: 01/14/00

Lab Id	Sample Id	Coarse Fragments %	Sand %	Silt %	Clay %	Texture	1/3 Bar Field Cap.	15 Bar Wilt Pt.
0199S20035	TM1499	100.0	93.0	6.0	1.0	SAND	4.0	3.4
0199S20035D	TM1499	100.0	93.0	5.0	2.0	SAND	4.0	3.3

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neut. Pot.= Neutralization Potential

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

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Client Project ID: Overburden

Date Received: 12/22/99

Set #0199S20025

Report Date: 01/14/00

Lab Id	Sample Id	TOC %	Total Sulfur %	T.S. AB t/1000t	Neutral. Pot. t/1000t	T.S. ABP t/1000t	Sulfate-Sulfur %	Pyritic-Sulfur %	Organic-Sulfur %	PyrS AB t/1000t	PyrS ABP t/1000t
0199S20035	TM1499	72.9	0.37	11.6	10.3	-1.30	0.03	0.05	0.29	1.56	8.70
0199S20035D	TM1499	72.9	0.35	10.9	10.4	-0.57	0.01	0.03	0.31	0.94	9.42

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neut. Pot.= Neutralization Potential

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

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Date Received: 12/22/99

Set #0199S20025

Report Date: 01/14/00

Lab Id	Sample Id	Boron ppm	Selenium ppm	Nitrogen Nitrate ppm	TKN %	Available Sodium ppm	Exch. Sodium meq/100g
0199S20035	TM1499	3.53	0.02	0.26	0.91	1.99	1.69
0199S20035D	TM1499	3.23	0.02	0.18	0.79	1.84	1.52

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neut. Pot.= Neutralization Potential

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed By: _____

Joey Sheeley

Soils Lab Supervisor

COAL/ROCK RATIO REPORT: COTTONWOOD MINE

Cottonwood Mine

October 11, 1999
Annual Sampling
Sampled by Tom Lloyd, Don Shurtz
Sampled on October 1st, 1999

	Ash	Weight (lbs)	Weighted Ash % Rock
Fines	36.7	396.3	17.2
Coal	11.4	167.0	2.3
Rock	100.0	280.0	33.2
Total		843.3	52.7

Total Coal	47.3
Total Rock	52.7

COMMERCIAL TESTING & ENGINEERING CO.
GENERAL OFFICES: 1919 SOUTH HIGHLAND AVE., SUITE 210-B, LOMBARD, ILLINOIS 60148 • TEL: 630-953-9300 FAX: 630-953-9306
SINCE 1908
SGS Member of the SGS Group (Société Générale de Surveillance)

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1020
HUNTINGTON, UT 84528
TEL: (435) 653-2311
FAX: (435) 653-2436

October 5, 1999

Job No.: 59 223689

Sample ID:

Date Rec'd: October 1, 1999

Date Sampled: October 1, 1999

Sampled By: PacifiCorp

PACIFICORP FIELD OFFICE
P.O. Box 1005
Huntington UT 84528

PACIFICORP
COTTONWOOD/TRAIL
ROCK SAMPLE
WASTE ROCK SITE
1 BARREL 27.0 lbs.
Rock Weight 396.25 LBS.

PROXIMATE ANALYSIS OF COAL

	%Moisture	%Ash	%Volatile	%Fixed Carbon	Btu/lb	%Sulfur
As Rec'd	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
Dry Basis		xxxxx	xxxxx	xxxxx	xxxxx	xxxxx
M-A-Free					xxxxx	

% AIR DRY MOISTURE LOSS: xxxxx

SO2 LB/MILLION BTU xxxxx

OCT - 5

Post-it™ brand fax transmittal memo 7671 | # of pages ▸

To Tom Lloyd	From
Co.	Co.
Dept.	Phone #
Fax #	Fax #

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Huntington Laboratory

MEMBER ACIL

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TEL: (435) 653-2311
FAX: (435) 653-2436

October 5, 1999

PACIFICORP FIELD OFFICE
P.O. Box 1005
Huntington UT 84528

Sample identification by

Kind of sample reported to us

Sample taken at

Sample taken by PacifiCorp

Date sampled October 1, 1999

Date received October 1, 1999

PACIFICORP
COTTONWOOD/TRAIL
CHUNK COAL
WASTE ROCK SITE
1 BARREL 30.25 lbs.
167.00 Chunk Coal LBS.

Analysis report no. 59-223690

MOISTURE/ASH ANALYSIS

	As Received	Dry Basis
% Moisture	4.53	xxxxx
% Ash	11.42	11.96

OCT - 5

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Huntington Laboratory

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TEL: (435) 653-2311
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October 5, 1999

PACIFICORP FIELD OFFICE
P.O. Box 1005
Huntington UT 84528

Sample identification by

Kind of sample reported to us

Sample taken at

Sample taken by PacifiCorp

Date sampled October 1, 1999

Date received October 1, 1999

PACIFICORP
COTTONWOOD/TRAIL
COAL FINES
WASTE ROCK SITE
1 BARREL 27.0 lbs.
280.0 Fine LBS.

Analysis report no. 59-223691

MOISTURE/ASH ANALYSIS

	As Received	Dry Basis
% Moisture	7.41	xxxxx
% Ash	36.70	39.64

OCT - 5

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Huntington Laboratory

MEMBE ACIL