Energy West Mining Company

Division of Oil, Gas & Mining
1998 Annual Report

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

Appendix A: Certified Reports
Appendix B: Technical Data
Separate Volumes: Hydrology Report
Subsidence Report
Vegetation Report
Appendix C: Legal, Financial, Compliance & Related Information
Appendix D: Mine Maps
Appendix E: Other Information

PACIFICORP

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General Information

RECEIVED
DIV. OF OIL, GAS & MINING

Deer Creek Mine
General Information

GENERAL INFORMATION

1. Permit Number	ACT/015/018
2. Mine Name	Deer Creek
3. Permittee Name	PacifiCorp
4. Operator Name (if other than Permittee)	Energy West Mining Company
5. Permit Expiration Date	2-7-2001
6. Company Representative, Title	Chuck A. Semborski, Geology/Permitting Supervisor
7. Phone Number	(435) 687-4720
8. Fax Number	(435) 687-2695
9. Mailing Address	Energy West Mining Company
	P.O. Box 310
	Huntington, Utah 84528
10. Resident Agent, Title	Chuck A. Semborski, Geology/Permitting Supervisor
Mailing Address	Energy West Mining Company
	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	11-30-2002
		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.	DAQ 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 Report
3. Impoundments	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	
2. Subsidence Monitoring Data	X		X			
3. Vegetation Monitoring Data	X		X			
4. Raptor Data	X		X			
5. Soils Monitoring Data	X		X			
6. Water Monitoring Data	X		X			
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				
8. Engineering Data		X				
9. Other Data						

LEGAL, FINANCIAL, COMPLIANCE AND RELATED INFORMATION

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

Legal/Financial Data:	Report Required?		INCLUDED or ON FILE w/DOGM?			Comments
	YES	NO	YES	NO	ON FILE	
1. Department of Commerce, Annual Report of Officers	X		X			
2. Other						
Change in Corporate Officers	X		X			
Unaudited Quarterly Report		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?
	Deer Creek Production Map 1998	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

Des Bee Dove Mine
General Information

GENERAL INFORMATION

1. Permit Number	ACT/015/017
2. Mine Name	Des-Bee-Dove
3. Permittee Name	PacifiCorp
4. Operator Name (if other than Permittee)	Energy West Mining Company
5. Permit Expiration Date	9-6-2000
6. Company Representative, Title	Chuck A. Semborski, Geology/Permitting Supervisor
7. Phone Number	(435) 687-4720
8. Fax Number	(435) 687-2695
9. Mailing Address	Energy West Mining Company
	P.O. Box 310
	Huntington, Utah 84528
10. Resident Agent, Title	Chuck A. Semborski, Geology/Permitting Supervisor
Mailing Address	Energy West Mining Company
	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	N/A
	42-01393	Little Dove	N/A
	42-00082	Beehive	N/A
2. MSHA Impoundment(s)		None	
3. NPDES/UPDES Permit(s) (water)	UTG040000	Industrial	4-30-2003
		Site 001: Sediment Pond Discharge	
		Site 002: Sediment Pond Discharge	
4. PSD (Air) Permit(s)		N/A Mine is in Cessation	
5.			

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		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	
2. Subsidence Monitoring Data	X		X			
3. Vegetation Monitoring Data	X		X			
4. Raptor Data	X		X			
5. Soils Monitoring Data	X		X			
6. Water Monitoring Data	X		X			
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						
Change in Corporate Officers	X		X			
Unaudited Quarterly Report		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?
CU-229-E	Deserer Mine Workings	Yes
CU-230-E	Beehive & 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? ☐ No X Yes

Cottonwood Mine
General Information

GENERAL INFORMATION

1. Permit Number	ACT/015/019
2. Mine Name	Cottonwood/Wilberg
3. Permittee Name	PacifiCorp
4. Operator Name (if other than Permittee)	Energy West Mining Company
5. Permit Expiration Date	7-5-1999
6. Company Representative, Title	Chuck A. Semborski, Geology/Permitting Supervisor
7. Phone Number	(435) 687-4720
8. Fax Number	(435) 687-2695
9. Mailing Address	Energy West Mining Company
	P.O. Box 310
	Huntington, Utah 84528
10. Resident Agent, Title	Chuck A. Semborski, Geology/Permitting Supervisor
Mailing Address	Energy West Mining Company
	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)	42-01944	Cottonwood	N/A
	42-00080	Wilberg	
2. MSHA Impoundment(s)	1211-UT-09-01944-01	North Pond	
	1211-UT-09-1-01944-02	South Pond	
3. NPDES/UPDES Permit(s) (water)	UT-0022896	Minor Industrial	10-31-2002
		Site 001: Mine Discharge	
		Site 002: Sediment Pond , Ctw. Cyn.	
		Site 003: Sediment Pond, Grimes Wash	
		Site 004: Miller Canyon	
		Site 005: Cottonwood Waste Rock Site	
4. PSD (Air) Permit(s)	DAQE694-95	Issued 8-9-95 Includes Trail Mtn	
	BAQE314-90	Prep Plant	
	DAQE835-91	Waste Rock Site	

CERTIFIED REPORTS

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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
3. Impoundments	X		X		X	Sediment Ponds: 002, 003, 005

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				
2. Subsidence Monitoring Data	X					
3. Vegetation Monitoring Data	X					
4. Raptor Data	X					
5. Soils Monitoring Data	X					
6. Water Monitoring Data	X					
First Quarter Report	X					
Second Quarter Report	X					
Third Quarter Report	X					
Fourth Quarter Report	X					
7. Geological/Geophysical Data		X				
8. Engineering Data		X				
9. Other Data						

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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						
Change in Corporate Officers						

MINE MAPS

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Map Number(s)	Map Title / Description	Confidential?
CU-229 E	Deseret Mine Workings	Yes
CU-230-E	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? ☐ No X 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	2-2-2002
6. Company Representative, Title	Chuck A. Semborski, Geology/Permitting Supervisor
7. Phone Number	(435) 687-4720
8. Fax Number	(435) 687-2695
9. Mailing Address	Energy West Mining Company
	P.O. Box 310
	Huntington, Utah 84528
10. Resident Agent, Title	Chuck A. Semborski, Geology/Permitting Supervisor
Mailing Address	Energy West Mining Company
	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
			N/A
			N/A
2. MSHA Impoundment(s)		None	
3. NPDES/UPDES Permit(s) (water)	UT-0023728	Minor Industrial	11-30-2002
		Site 001: Sediment Pond Discharge	
		Site 002: Mine Discharge	
4. PSD (Air) Permit(s)	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	
2. Subsidence Monitoring Data	X		X			
3. Vegetation Monitoring Data	X		X			
4. Raptor Data	X		X			
5. Soils Monitoring Data		X		X		
6. Water Monitoring Data	X		X			
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

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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						
Change in Corporate Officers	X		X			
Unaudited Quarterly Report		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?
	Trail Mountain Mine 1998 Production Map	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

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 Mtn./Des Bee Dove Waste Rock Site Reports
1st Quarter
2nd Quarter
3rd Quarter
4th Quarter

Sediment Pond Reports

Deer Creek Mine
Deer Creek Waste Rock Site Detention
Cottonwood Mine North and South Ponds
Cottonwoood Canyon Basins North and South
Cottonwood Waste Rock Site Detention
Des Bee Dove Mine
Trail Mountain Mine

Deer Creek Mine
Waste Rock Site Reports

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE			Page 1 of
Permit Number	ACT/015/018	**Report Date**	March 30, 1998
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	3/12/98		
Inspected By	John Christensen/Richard Jensen		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	1998 First Quarter Inspection		
	Attachments to Report? X☐ 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 February, trash and extraneous material were removed. Lift was sampled as required. The active lift is at approximately 10% 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.**

Snow still covers all but the South facing slopes. 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 #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 #1 cell is approximately 32% capacity.

The estimated volume of material hauled in 1998 to the site was 4,669 cubic yards, as of February 28.

Containment basins were constructed within the #1 cell to hold sediment from the cleaning of the Deer Creek mine site sediment pond. The cleaning was completed in December 1997. A small amount of water was transported to the waste rock site pond in association with the sediment cleaning process. The waste rock site access road was graded following the sediment cleaning.

Certification Statement

LICENSED PROFESSIONAL ENGINEER
JOHN CHRISTENSEN
No. 165651
STATE OF UTAH

Insert 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: 3/30/98

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**	March 30, 1998
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	3/12/98		
Inspected By	John Christensen/Richard Jensen		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	1998 First Quarter Inspection		
	Attachments to Report? X☐ **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. Both sites presently have a covering of snow.

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.

LICENSED PROFESSIONAL ENGINEER
JOHN CHRISTENSEN
No. 165651
STATE OF UTAH

Lic. Stamp

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

Signature: John Christensen Date: 3/30/98

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 26, 1998
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 25, 1998		
Inspected By	John Christensen/Rick Cullum		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	1998 Second 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.

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

Dept. Stamp

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

Signature: John Christensen Date: 7/8/98

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 26, 1998
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 25, 1998		
Inspected By	John Christensen/Rick Cullum		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	1998 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 February 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 33% capacity.

The estimated volume of material hauled in 1998 to the site was 7,704 cubic yards, as of May 30, 1998.

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.

Certification Statement

LICENSED PROFESSIONAL ENGINEER
JOHN CHRISTENSEN
Cert No. 165651
STATE OF UTAH
[Cert No. 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, CONST ENG.
(Full Name and Title)

Signature: John Christensen Date: 7/8/98

P.E. Number & State: 165651 UTAH

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE			Page 1 of 3
Permit Number	ACT/015/018	**Report Date**	September 30, 1998
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	9/28/98		
Inspected By	John Christensen/Rick Cullum		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	1998 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 August 1998, trash and extraneous material were removed. Lift was sampled as required. The active lift is at approximately 40% 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 6,352 ft. The final design elevation will be 6,369 ft. The area No. 1 cell is approximately 33% capacity.

The estimated volume of material hauled in 1998 to the site was 11,328 cubic yards, as of August 31, 1998

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.

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, Construction Engineer
(Full Name and Title)

Signature: John Christensen **Date:** 10/4/98

P.E. Number & State: 165651 UTAH

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE			Page 1 of 3
Permit Number	ACT/015/018	**Report Date**	September 30, 1998
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	September 28, 1998		
Inspected By	John Christensen/Rick Cullum		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	1998 3rd 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.

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.

Certification Statement

LICENSED PROFESSIONAL ENGINEER
JOHN CHRISTENSEN
No. 165651
STATE OF UTAH

Insert. 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: 10/4/98

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**	January 11, 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	December 29, 1998		
Inspected By	John Christensen/Rick Cullum		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	1998 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 November 1998, trash and extraneous material were removed. Lift was sampled as required. The active lift is at approximately 20% 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 33% capacity.

The estimated volume of material hauled in 1998 to the site was 12,373 cubic yards, as of December 9, 1998.

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 survey elevation of the active lift is 2ft. lower than last quarter. This is due to the sediment pond cleanings being excavated and redistributed over the entire site.

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, CONST. ENGINEER
(Full Name and Title)

Signature: John Christensen **Date:** 1/12/99

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**	January 11, 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	December 29, 2998		
Inspected By	John Christensen/Rick Cullum		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	1998 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. 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 12/29/98 there was no coal stored in the Elk Canyon pad. 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
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: 1/12/99

P.E. Number & State: 165651 UTAH

Cottonwood/Trail Mtn/ 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/015/017/ACT/015/019	**Report Date**	September 30, 1998
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	September 25, 1998		
Inspected By	John Christensen/Rick Cullum		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	1998 3rd 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 revegated. 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 35% capacity. The containment area in the North end of the site was full from recent pond cleanings. 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. The settlement fractures in the top of the southeast corner of the berm have all silted in and show no sign of movement.

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 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 6,798.5 ft. the final design elevation will be 6,850 ft. The entire site is approximately 35% capacity. The estimated volume hauled to the site through August was 7,177 cubic yards. This excludes sediment from pond cleanings. The useable area of the present lift is approximately 35% 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
Cert. No. 165651
STATE OF UTAH
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: 10/4/98

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/ACT015/019	**Report Date**	September 30, 1998
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	September 25, 1998		
Inspected By	John Christensen/Rick Cullum		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	1998 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.

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

[Art. Stamp]

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

Signature: [signature] Date: 10/4/95

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 26, 1998
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 24, 1998		
Inspected By	John Christensen/Rick Cullum		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	1998 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 active lift is approximately 25% capacity. The containment area in the North end of the site was full from recent pond cleanings. 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. The settlement fractures in the top of the southeast corner of the berm show no signs of change and will continue to be monitored.

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 6,798.5 ft. The final design elevation will be 6,850 ft. The site is approximately 35% capacity. The estimated volume hauled to the site in 1998 was 5700 cubic yards. This excludes sediment from pond cleanings. The useable area of the present lift is approximately 25% 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 CONSTRUCTION ENGINEER
(Full Name and Title)

Signature: John Christensen Date: 6/26/98

P.E. Number & State: 165651 UTAH

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE			Page 1 of
Permit Number	ACT/015/0017/ACT/015/019	**Report Date**	June 26, 1998
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	6/24/98		
Inspected By	John Christensen/Rick Cullum		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	1998 Second 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

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, CONST. ENG.
(Full Name and Title)

Signature: John Christensen Date: 7/6/98

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**	March 30, 1998
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	3/10/98		
Inspected By	John Christensen		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		1998 First Quarter Inspection	
		Attachments to Report? X☐ 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 50% capacity. The containment area in the North end of the site was full from the 4th quarter cleaning of the Cottonwood, Trail Mountain, and Des-Bee-Dove ponds. Areas of the site where the Des-Bee-Dove sediment had been dumped were dozed into piles to make room for more pond cleanings and the regular refuse hauls. These piles will be leveled after drying.

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.**

Snow covers the top and inside areas of the upper berm. The South face of the refuse pile was visible and shows no indication of weakness or instabilities. The settlement fractures in the top of the South East corner of the berm will continued to be monitored.

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 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 6,798.5 ft. The final design elevation will be 6,850 ft. The site is approximately 35% capacity. The estimated volume hauled to the site in 1998 was 3,090 cubic yards. This excludes sediment from pond cleanings. Additional sediment from the Des-Bee-Dove pond was placed in the site during the 1st quarter 1998. This material covers approximately 1/3 of the total area and will be spread when dry. The refuse on the remaining area was leveled and picked of trash this quarter. The usable area of the present lift is approximately 50% full of refuse piles.

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, Construction Engineer
(Full Name and Title)

Signature: John Christensen **Date:** 3/30/98

P.E. Number & State: 165651, Utah

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE			Page 1 of
Permit Number	ACT/015/0017/ACT/015/019	**Report Date**	March 30, 1998
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	3/10/98		
Inspected By	John Christensen/Richard Jensen		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	1998 First Quarter Inspection		
	Attachments to Report? X☐ **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

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: 3/30/98

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**	January 11, 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	December 31, 1998		
Inspected By	John Christensen/Rick Cullum		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		1998 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 active lift is approximately 20% 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 December 9, 1998 was was 9965 cubic yards. This excludes sediment from pond cleanings. 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
[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, Construction Engineer
(Full Name and Title)

Signature: John Christensen **Date:** 1/12/99

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**	January 11, 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	December 31, 1998		
Inspected By	John Christensen/Rick Cullum		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	1998 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.

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

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, Construction Engineer
(Full Name and Title)

Signature: John Christensen Date: 1/12/99

P.E. Number & State: 165651, UTAH

Deer Creek Mine
Sediment Pond Reports

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			Page 1 of
Permit Number	Act/015/018	**Report Date**	March 31, 1998
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: 3/12/98	Waste rock pond: 3/12/98
Inspected By	Richard Jensen and Chris Barbee	
Reason for Inspection (Annual, quarterly or other periodic inspection, critical installation, or completion of construction)	First Quarter 1998 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 instability or weaknesses observed, snow covers the entire area.	No instability or weaknesses observed, area is partially covered with snow

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 7,213.1 ft.	.59 A.F. at 6,312.7 ft.
100% Sediment Capacity	3.12 A.F. at 7,216.0 ft.	.98 A.F. at 6,313.45 ft.

3. **Principle and emergency spillway elevations.**

	Mine site pond	Waste rock pond
Principle Spillway Elevation (F.A.S.L.):	7,218.64	6,318.0
Emergency Spillway Elevation:	7,232.03	6,318.0

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	7,218.59 top of ice	6,310.4 ft.
Discharging	Yes	Never
Inlet, outlet, spillway conditions	No indication of change in condition	No indication of change in condition
Outslope conditions	No indication of change	No indication of 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	0.00	None
Remaining sediment storage capacity	3.12 A.F.	0.98 A.F.
Water impounded	4.6 A.F.	Small amount of water covers an area 100' X 75' at a depth varying from 0 to 18 inches in the Southern end of the pond.
Changes, Comments, etc.	Pond was frozen at time of inspection. Sediment levels in the sediment retention box remain low.	

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:** 3/31/98

Signature: Richard Jensen **Date:** 4-2-98

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	X	

COMMENTS AND OTHER INFORMATION

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			Page 1 of
Permit Number	ACT/015/018	Report Date	6/26/98
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: 6/19/98	Waste Rock Pond: 6/19/98
Inspected By	Rick Cullum	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	2nd Quarter 1998 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	7222.97	No Water
Discharging	yes	Never
Inlet, Outlet, Spillway Conditions	Good	Good
Outslope 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	.23 A.F.	None
Remaining Sediment Storage Capacity	2.89 A.F.	0.98 A.F.
Water impounded	5.7 A.F.	
Changes, Comments, etc.	No changes from previous inspection. Sediment box was cleaned at the end of 2nd quarter.	No water

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 Christe **Date:** 7/8/98
Signature: Richard Cullum **Date:** 6/26/98

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	10/2/98
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: 9/24/98 Waste Rock Pond: 9/28/98
Inspected By	Rick Cullum/John Christensen
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	3rd Quarter 1998 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 instability or weaknesses observed.	No instability or weaknesses 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	7223.56 (9/24/98)	6310.51 ft. (9/28/98)
Discharging	Yes	Never
Inlet, Outlet, Spillway Conditions	Good	Good
Outslope 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	0.54 A.F.	None
Remaining Sediment Storage Capacity	2.58 A.F.	0.98 A.F.
Water Impounded	6.46 A.F.	Insignificant amount.
Changes, Comments, etc.	Sediment box was cleaned at the end of the 2nd quarter.	No changes 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:** 10/13/98
Signature: Richard Cullen **Date:** 10/14/98

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**	12/29/98
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:** 12/17/98 **Waste Rock Pond:** 12/17/98
Inspected By	Rick Cullum / John Christensen
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	4th Quarter 1998 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	7220.38 (Top of ice)	6311.51 (Top of ice)
Discharging	yes	Never
Inlet, Outlet, Spillway Conditions	Good	Good
Out slope Conditions	No Change POND IS FROZEN	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. Sediment box was cleaned at the end of November.	No change from previous Inspection.

Qualification Statement

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

Signature: John Christensen **Date:** 1/12/99

Signature: Richard Cullum **Date:** 1/12/99

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/015/009	**Report Date**	10/2/98
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	9/25/98
Inspected By	Rick Cullum/ John Christensen
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	3rd Quarter 1998 Inspection

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

No unstable or structural weaknesses found relating to the dam or outlet structures.

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	7186.55
Discharging	Yes
Inlet, Outlet Conditions	Some erosion has occurred around the rip rap at inlet to the pond.
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	0.15 A.F.
Remaining Sediment Storage Capacity	0.32 A.F.
Water Impounded	0.55 A.F.

Comments:

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 Christie **Date:** 10/4/98

Signature: Richard Cullum **Date:** 10/5/98

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. 28, 1998
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. 22, 1998**
Inspected By	Rick Cullum/ John Christensen
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	4TH Quarter 1998 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

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 3 of 3

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 Chantense **Date:** 1/4/99 **Signature:** Richard Calbum **Date:** 1/8/99

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** 12/22/98	
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	DEC. 17, 1998
Inspected By	RICK CULLUM/JOHN CHRISTENSEN
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	4TH Quarter Inspection 1998

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

North Pond: No instabilities or weakness observed.

South Pond: No instabilities or weakness 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 (Top of ice)	7329.14 (Top of ice)	6761.90 (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.

	North Pond	South Pond	Waste Rock Pond
Sediment Volume	.10 AF	.09 AF	.58 AF
Remaining Sediment Storage Capacity	.46 AF	.23 AF	1.84 AF
Water Impounded	.38 AF	.61 AF	.97 AF
Changes, Comments, etc.	Pond is Frozen And functioning normally. Pond was cleaned in Mid-June.	Pond is Frozen And functioning normally.	Pond is Frozen And 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 Anderson **Date:** 1/4/99

Signature: Richard Cullum **Date:** 1/8/99

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)

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
Permit Number	Act/015/019	Report Date	March 31, 1998
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	3/10/98
Inspected By	Richard Jensen
Reason for Inspection (Annual, quarterly or other periodic inspection, critical installation, or completion of construction)	First Quarter 1998 Inspection

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

No unstable or structural weaknesses found. Snow presently covers the area.

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	0.47 A.F.	0.115 A.F.

3. **Principle and emergency spillway elevations.**

	North Basin	South Basin
Principle Spillway Elevation (F.A.S.L.):	7,230.5	7,223.6
Emergency Spillway Elevation:	7,230.5	7,223.6

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	Snow covered	Snow covered
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 Chmiterse **Date:** 3/31/98

Signature: Richard Jensen **Date:** 4-2-98

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	X	

COMMENTS AND OTHER INFORMATION

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			Page 1 of
Permit Number	Act/015/019	**Report Date**	March 31, 1998
Mine Name	Cottonwood/Wilberg		
Company Name	PacifiCorp		
Impoundment Identification	**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	No. pond: 3/10/98; South pond: 3/10/98; Waste rock pond: 3/10/98
Inspected By	Richard Jensen and Richard Northrup
Reason for Inspection (Annual, quarterly or other periodic inspection, critical installation, or completion of construction)	First Quarter 1998 Inspection

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. Area is partially covered with snow.

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 7,351.0 ft.	.19 A.F. at 7,322.3 ft.	1.45 A.F. at 6,761.5 ft.
100% Sediment Capacity	.56 A.F. at 7,354.83 ft.	.32 A.F. at 7,325.33 ft.	2.42 A.F. at 6,765.3 ft.

3. **Principle and emergency spillway elevations.**

	North Pond	South Pond	Waste Rock Pond
Principle Spillway Elevation	7,354.83	7,325.33	6,766.3
Emergency Spillway Elevation:	7,363.33	7,334.2	6,770.0

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	7,354.34 top of ice	7,329.23 top of ice	6,760.66 top of ice
Discharging	Yes	Yes	No
Inlet/outlet conditions	Good	Good	Good
Slope conditions	Good	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 Pond	South Pond	Waste Rock Pond
Sediment volume	0	0	0.36 A.F.
Remaining sediment storage capacity	.56 A.F.	.32 A.F.	2.06 A.F.
Water Impounded	.46 A.F.	.70 A.F.	.89 A.F.
Changes, Comments, etc.	Pond is frozen and functioning normally	Pond is frozen and functioning normally	Pond is frozen and functioning

Sediment volumes should not have changed significantly since cleaning.

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 Thorn **Date:** 3/31/98

Signature: Richard Jensen **Date:** 4-2-98

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	X	

COMMENTS AND OTHER INFORMATION

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of

Permit Number	ACT/015/019	Report Date	June 26, 1998
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 15, 1998
Inspected By	Rick Cullum
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	2nd Quarter 1998 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: [signature] **Date:** 7/8/98
Signature: [signature] **Date:** 6/26/98

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
Permit Number	ACT/015/019	Report Date 6/26/98	
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	June 15, 1998
Inspected By	Rick Cullum
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	2nd Quarter Inspection 1998

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

North Pond: No instabilities or weakness observed.

South Pond: No instabilities or weakness 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	7354.86	7328.87	6759.83
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 AF	.08 AF	.40 AF
Remaining Sediment Storage Capacity	.56 AF	.24 AF	2.02 AF
Water Impounded	.5 AF	.62 AF	.50 AF
Changes, Comments, etc.	Pond is functioning normally. Was cleaned in Mid-June.	Pond is functioning normally.	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 Chintense Date: 7/8/98

Signature: Richard Cullum Date: 6/26/98

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	

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			Page 1 of 3
Permit Number	ACT/015/019	Report Date	OCT. 2, 1998
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	September 25, 1998
Inspected By	Rick Cullum/ John Christensen
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	3RD Quarter 1998 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	A SMALL AMOUNT OF WATER WAS PRESENT IN THE BOTTOMS OF BOTH PONDS.	
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.	A SMALL AMOUNT OF WATER WAS PRESENT IN THE BOTTOMS OF BOTH PONDS	

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: [illegible] **Date:** 10/13/98
Signature: Richard [illegible] **Date:** 10/14/98

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	10/2/98
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	9/23/98
Inspected By	Rick Cullum/ John Christensen
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	3rd Quarter Inspection 1998

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	7354.32	7329.09	6761.32
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	0.10	0.09	0.58 AF
Remaining Sediment Storage Capacity	0.46 AF	0.23AF	1.84 AF
Water Impounded	0.33	0.61	0.69 AF
Changes, Comments, etc.	pond is functioning normally	pond is functioning normally	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 Chunter **Date:** 10/4/98

Signature: Richard Cullum **Date:** 10/5/98

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

Des Bee Dove Mine
Sediment Pond Reports

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			Page 1 of
Permit Number	Act/015/017	**Report Date**	March 31, 1998
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	3/10/98
Inspected By	Richard Jensen
Reason for Inspection (Annual, quarterly or other periodic inspection, critical installation, or completion of construction)	First Quarter 1998 Inspection

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

Top, North face, and spillway are covered with snow. The South face is exposed and 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 6,756 100% Sediment Capacity 2.0 A.F. at 6,757

3. **Principle and emergency spillway elevations.**

Principle Spillway
Elevation (F.A.S.L.): 6,757.0

Emergency Spillway
Elevation: (F.A.S.L.) 6,771.5

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	Small amount of water present
Discharging	No
Inlet, outlet conditions	Good
Slope conditions	Good

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

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 3 of

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 A.F.
Water Impounded	Small amount in an area 100' X 50' to a depth of 0" to 12"
Changes, Comments, etc.	Sediment cleaning was resumed during January and was completed. The sediment was tested according to regulations. The soil storage pile was revegetated after the second pond cleaning.

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 Chmtense **Date:** 3/31/98

Signature: Richard Jensen **Date:** 4-2-98

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	X	

COMMENTS AND OTHER INFORMATION

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			Page 1 of
Permit Number	ACT/015/017	Report Date	June 26,1998
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	6/24/98
Inspected By	Rick Cullum
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	2nd Quarter 1998 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.): 6771.5

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	6752.59
Discharging	No
Inlet, Outlet Conditions	Good
Slope conditions	Good

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

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 3 of

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 A.F.
Water Impounded	Small amount in an area 120'x181' to a depth of 0" to 12"
Changes or Comments:	There in no sediment and there has been no major storms or runoff since last cleaning

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 Anderson **Date:** 7/8/98 **Signature:** Richard Cullen **Date:** 6/26/98

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/015/017	**Report Date**	OCT. 2, 1998
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	SEPT. 24, 1998
Inspected By	Rick Cullum/John Christensen
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	3RD Quarter 1998 Inspection

1

Shows no visible sign of weakness or instability.

Required for an impoundment which functions as a SEDIMENTATION POND.	2
	60% Design Storage Capacity 1.2 A.F. at 6756
	100% Sediment Capacity 2.0 A.F. at 6757
	3

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

Emergency Sillway Elevation:(F.A.S.L.): 6771.5

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	6754.64
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 Impounded	AREA 205' X 270' AND APPROX. 0 TO 20" DEEP IS COVERED WITH WATER.
Changes or Comments:	THERE IS VERY LITTLE SEDIMENT SINCE POND CLEANING EARLY THIS YEAR

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:** 10/13/98
Signature: Richard Cullum **Date:** 10/14/98

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
1	x	
2	x	
3	x	

COMMENTS AND OTHER INFORMATION

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			Page 1 of 3
Permit Number	ACT/015/017	**Report Date**	DEC. 29, 1998
Mine Name	Des Bee Dove		
Company Name	Energy West Mining Company		
Impoundment Identification	**Name**	**Mine Site Pond**	
	Impoundment Number		
	UPDES Permit Number	UT-0023591	
	MSHA ID Number		

IMPOUNDMENT INSPECTION

Inspection Date	DEC. 17, 1998
Inspected By	Rick Cullum/John Christensen
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	4TH Quarter 1998 Inspection

1

Shows no visible sign of weakness or instability.

Required for an impoundment which functions as a SEDIMENTATION POND.	2 **60% Design Storage Capacity** 1.2 A.F. at 6756 **100% Sediment Capacity** 2.0 A.F. at 6757
	3 **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 clean out, pond decanting, embankment erosion/repairs, monitoring information, vegetation on out slopes of embankments, etc.

Water Elevation	6758.29 (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
Remaining Sediment Storage Capacity	2.0
Water Impounded	3.20 A.F.
Changes or Comments:	POND IS FROZEN AND 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: _____ **Date:** _____

Signature: _____ **Date:** _____

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	0
Remaining Sediment Storage Capacity	2.0	
Water impounded	3.20 A.F.	
Changes, Comments, etc.	POND IS FROZEN AND 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 Chester **Date:** 1/12/99
Signature: Richard Cullum **Date:** 1/12/99

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

Trail Mountain Mine
Sediment Pond Reports

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			Page 1 of 3
Permit Number	ACT/015/009	**Report Date**	12/28/98
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	12/14/98
Inspected By	John Christensen / Rick Cullum
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	4th Quarter 1998 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	7186.96 (Top of ice)
Discharging	Yes
Inlet, Outlet Conditions	Good
Slope conditions	Good

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

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

Sediment Volume	0.15 A.F.
Remaining Sediment Storage Capacity	0.32 A.F.
Water Impounded	0.82 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 Anderson **Date:** 1/7/99

Signature: Richard Cullum **Date:** 1/8/99

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
Permit Number	Act/015/009	**Report Date**	March 30, 1998
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	3/10/98
Inspected By	Richard Jensen
Reason for Inspection (Annual, quarterly or other periodic inspection, critical installation, or completion of construction)	First Quarter 1998 Inspection

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

Snow covers most of the pond area. The front face and inlet of the pond are exposed. No signs of instability or structural weakness 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.** 60% Design Storage Capacity 0.282 A.F. at 7,182 100% Sediment Capacity 0.47 A.F. at 7,183.6

3. **Principle and emergency spillway elevations.**

Principle Spillway
Elevation (F.A.S.L.): 7,186.6

Emergency Spillway
Elevation: (F.A.S.L.): 7,194.6

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	7,187.02 top ice
Discharging	Yes
Inlet, outlet conditions	Good
Slope conditions	Good

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

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			Page 1 of
Permit Number	ACT/015/009	Report Date	6/26/98
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	6/15/98
Inspected By	Rick Cullum
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	2nd Quarter 1998 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	7188.25
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	0.11 A.F.
Remaining Sediment Storage Capacity	0.36 A.F.
Water Impounded	0.84 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 Hunter **Date:** 7/8/98
Signature: Richard Cullen **Date:** 6/26/98

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**	10/2/98
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	9/25/98
Inspected By	Rick Cullum/ John Christensen
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	3rd Quarter 1998 Inspection

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

No unstable or structural weaknesses found relating to the dam or outlet structures.

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 7186.55

Discharging Yes

Inlet, Outlet Conditions Some erosion has occurred around the rip rap at inlet to the pond.

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	0.15 A.F.
Remaining Sediment Storage Capacity	0.32 A.F.
Water Impounded	0.55 A.F.

Comments:

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 Chmiel **Date:** 10/4/98

Signature: Richard Cullum **Date:** 10/5/98

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 1998

Drawings Showing Vegetation Monitoring Locations

Hydrologic Monitoring Locations 1998

Drawing Showing Hydrologic Monitoring Locations
(see Hydrology Report)

For a Detailed Report of Technical Data see the Following Reports:

1998 Vegetation Monitoring Report
1998 Hydrology Report
1998 Subsidance Report

Vegetation Field Work 1998

Vegetation Field Work for 1998

April 1 - August 31

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.

Cottonwood Mine Area

Old Fan Road

Reference Area

4th East Road

Storage Yard Slope

Parking Lot Slope

Road/Silo Pad Slope

Tipple Area Slope

Sediment Pond Banks

Ninth East Road Breakouts

Old Waste Rock Cells 1-7

Old Waste Rock Berms 1-4

Cottonwood Reference Area

Cottonwood Soil Pile A, B, C

New Waste Rock Road Slopes

New Waste Rock Topsoil Pile

New Waste Rock Subsoil Pile

New Waste Rock Sediment Pond Banks

Refuse Berms (1991, 1994, 1996)

Des Bee Dove Area Con't

Sediment Pond Area

Cottonwood Canyon Area

Soil Piles

Fan Portal Reclaimed Slope

Fan Portal Reference Area

Tube Conveyor

Belt Portal 1996

Diesel Portal 1996

Des Bee Dove Mine Area

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 (Reseeded area - '97)

Haul Road Bench

Beehive Substation Slope

Trail Mountain Mine Area

Sediment Pond Outslope

Bathhouse Slope

Sediment Pond Area

Material Yard Slope

Test Plots '89

Test Plots '92

Deer Creek Mine Area

C2 Conveyor (IU 132-190) '93

Riparian Areas

Sediment Pond Dam

Temporary Sediment Basin

Roadside Areas

Bate Areas Slope

Fan Road Slopes

Refuse Pile and Berm

Rock Slide and Berm

Water Plant Slope

Pipeline

Deer Canyon

Waste Rock Access Road Slopes

Phase I Berm

Phase I Diversion

Parking Et. '96

Rilda Canyon Area

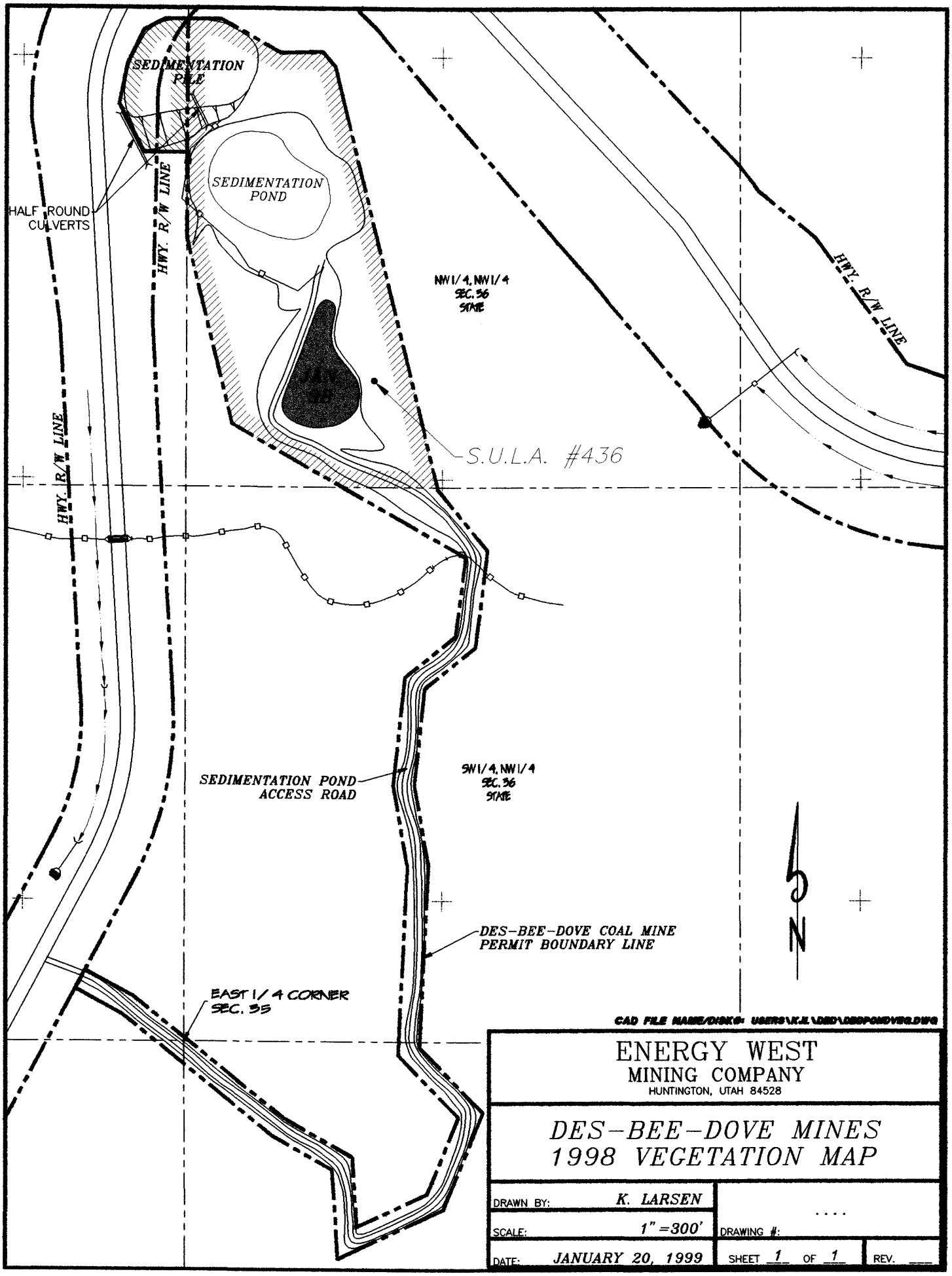
Pad Area Slopes '96

Roadway Slopes '96

Topsoil Pile '95

Some Roadway Slopes

Vegetation Monitoring Locations


SEDIMENTATION PILE
SEDIMENTATION POND
HALF ROUND CULVERTS
HWY. R/W LINE
HWY. R/W LINE
HWY. R/W LINE
HWY. R/W LINE
NW1/4, NW1/4 SEC. 36 STATE
S.U.L.A. #436
SEDIMENTATION POND ACCESS ROAD
SW1/4, NW1/4 SEC. 36 STATE
DES-BEE-DOVE COAL MINE PERMIT BOUNDARY LINE
EAST 1/4 CORNER SEC. 35
N
CAD FILE NAME/DISK#: USERS\K.JL\DBD\DBDPOND1VEG.DWG
ENERGY WEST
MINING COMPANY
HUNTINGTON, UTAH 84528
DES-BEE-DOVE MINES
1998 VEGETATION MAP
DRAWN BY: K. LARSEN
SCALE: 1" =300'
DRAWING #:
DATE: JANUARY 20, 1999
SHEET 1 OF 1
REV.

MAP

*S16980

Taken out for
Board Hearing

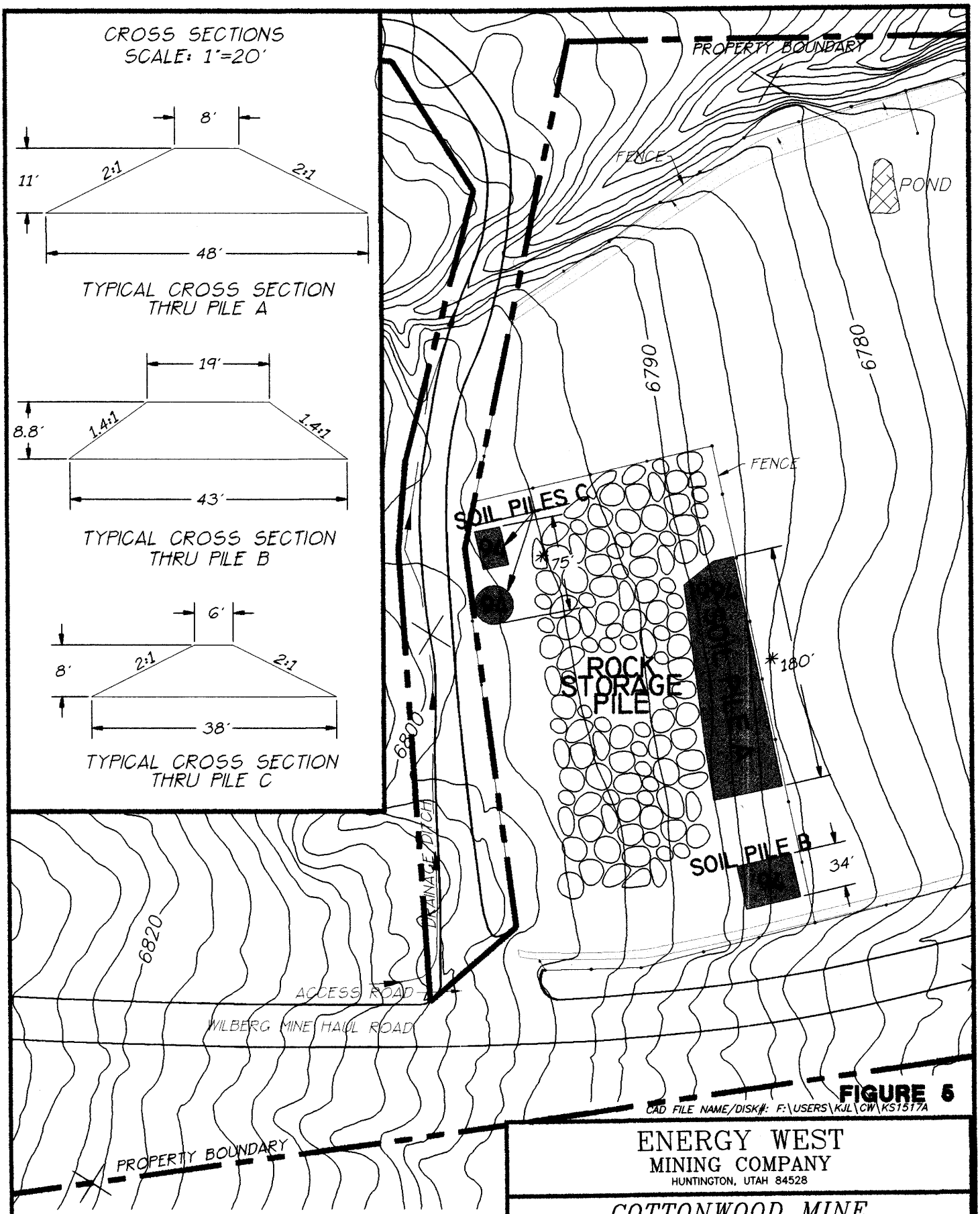


FIGURE 5

CAD FILE NAME/DISK#: F:\USERS\KJL\CW\KS1517A

PILE A AND **PILE C** ARE NATIVE SOILS FOR THE OVERLAND CONVEYOR RECLAMATION

PILE B IS SUBSOIL FOR COTTONWOOD FAN PORTAL RECLAMATION

* DISTANCE WILL VARY DEPENDING ON EXACT QUANTITY STOCKPILED.

ENERGY WEST
MINING COMPANY
HUNTINGTON, UTAH 84528

COTTONWOOD MINE
OVERLAND CONVEYOR
SUBSOIL & NATIVE SOIL STORAGE

DRAWN BY:	K. LARSEN	KS1517A	
SCALE:	1" =100'	DRAWING #:	
DATE:	DEC. 15, 1994	SHEET 1 OF 1	REV.

Hydrologic Monitoring Locations

PACIFICORP

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	MFA1	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
		MFB2	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											

PACIFICORP

ENERGY WEST MINING COMPANY

HYDROLOGIC MONITORING PROGRAM

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

GROUNDWATER HYDROLOGY - OPERATIONAL SAMPLING (Table 2)

Groundwater Type			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Springs	*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

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

Energy West Mining Company Corporate Data Sheet

Annual Report of Officers as of 12-31-98

List of NOV's thru 1998

Termination of NOV 94-020-370-002

Assessment of NOV N-98-41-1-1

ROW Assignments which Satisify the Division Order for NOV N-97-41-3-1:

BLM ROW UTU-50148 (Des-Bee-Dove Road)

SITLA ROW No. 2470 & 446

Final Bond Release for the Des-Bee-Dove Haul Road

Energy West Mining
Corporate Data Sheet

Energy West Mining Company

Corporate Data Sheet as of Tuesday, September 29, 1998

Name	Elected	Citizenship	Residence
Dan R. Baker			
Dee W. Jense			

[A] indicates an Associate Director

Title	Name	Appointed
Assistant Treasurer	John F. Fryer	
Vice President and Assistant Secretary	Dee W. Jense	
Assistant Secretary	Dexter E. Martin	
Assistant Secretary	Lenore M. Martin	
Treasurer	Bruce N. Williams	
President	Dan R. Baker	
Secretary	Sally A. Nofziger	

Class Name		Authorized	Issued and Outstanding
Common		50,000	100
	PacifiCorp		100
		Total tracked :	100

No Corporate History on file

Holding Company	% Held
PacifiCorp	100.00

Corporate Officer List

PacifiCorp Officers

Name	Address
C.K. Ferguson Date Position Assumed 5-10-95	Assistant Secretary 570 Lloyd Center Tower Portland, OR 97232
Dan R. Baker Date Position Assumed 5-13-98	Vice President 201 South Main, 2300 OUC Salt Lake City, UT 84140
Donald A. Bloodworth Date Position Assumed 11-11-97	Vice President 700 NE Multnomah, Suite 1600 Portland, OR 97232-4116
John A. Bohling Date Position Assumed 2-17-93	Sr. Vice President 825 NE Multnomah, Suite 1800 Portland, OR 97232
William C. Brauer Date Position Assumed 2-19-92	Sr. Vice President 201 South Main, 2300 OUC Salt Lake City, UT 84140
Frederick W. Buckman Date Position Assumed 2-1-94	President and Chief Executive Officer 700 NE Multnomah, Suite 1600 Portland, OR 97232-4116
Marsha E. Carroll Date Position Assumed 8-19-92	Assistant Secretary 825 NE Multnomah, Suite 1800 Portland, OR 97232
Anne E. Eakin Date Position Assumed 2-12-97	Vice President 825 NE Multnomah, Suite 1800 Portland, OR 97232
Shelley R. Faigle Date Position Assumed 2-17-92	Sr. Vice President 825 NE Multnomah, Suite 1800 Portland, OR 97232
Thomas W. Forsgren Date Position Assumed 5-10-95	Vice President 201 South Main, 2300 OUC Salt Lake City, UT 84140
John F. Fryer Date Position Assumed 2-8-95	Assistant Treasurer 825 NE Multnomah, Suite 1900 Portland, OR 97232
Donald N. Furman Date Position Assumed 2-12-97	Vice President 825 NE Multnomah, Suite 2020 Portland, OR 97232

Revised 8/3/98

David F. Hoffman Date Position Assumed 5-11-94	Vice President 500 NE Multnomah, Suite 900 Portland, OR 97232
Thomas J. Imeson Date Position Assumed 11-28-90	Vice President 700 NE Multnomah, Suite 1600 Portland, OR 97232-4116
Michael G. Jenkins Date Position Assumed 5-13-98	Assistant Secretary 201 South Main, Suite 900 Salt Lake City, UT 84140
Paul G. Lorenzini Date Position Assumed 5-27-94	Sr. Vice President 920 SW Sixth Avenue, Suite 1500 Portland, OR 97204
Lenore M. Martin Date Position Assumed 7-8-87	Assistant Secretary 700 NE Multnomah, Suite 700 Portland, OR 97232-4116
Timothy E. Meier Date Position Assumed 9-2-97	Vice President 920 SW Sixth Avenue, Suite 1500 Portland, OR 97204
Sally A. Nofziger Date Position Assumed 5-17-89	Vice President and Corp. Secretary 700 NE Multnomah, Suite 1600 Portland, OR 97232-4116
Richard T. O'Brien Date Position Assumed 7-1-98	Sr. Vice President and Chief Operating Officer 700 NE Multnomah, Suite 1600 Portland, OR 97232-4116
William E. Peressini Date Position Assumed 1-1-94	Vice President and Treasurer 825 NE Multnomah, Suite 1900 Portland, OR 97232
Michael J. Pittman Date Position Assumed 5-19-93	Vice President 825 NE Multnomah, Suite 1800 Portland, OR 97232
John M. Schweitzer Date Position Assumed 6-13-84	Assistant Secretary 700 NE Multnomah, Suite 950 Portland, OR 97232-4116
Brian D. Sickels Date Position Assumed 2-12-97	Vice President 700 NE Multnomah, Suite 1600 Portland, OR 97232-4116
Daniel L. Spalding Date Position Assumed 5-1-80	Sr. Vice President Level 3, 77 Southbank Blvd. South Victoria Australia 3006

John R. Stageberg Date Position Assumed 8-15-90	Assistant Treasurer 825 NE Multnomah, Suite 1900 Portland, OR 97232-4116
Dennis P. Steinberg Date Position Assumed 5-11-94	Sr. Vice President 700 NE Multnomah, Suite 1600 Portland, OR 97232-4116
Verl R. Topham Date Position Assumed 5-27-94	Sr. Vice President and General Counsel 201 South Main, Suite 2300 Salt Lake City, UT 84140
Ernest E. Wessman Date Position Assumed 5-19-93	Vice President 201 South Main, 2300 OUC Salt Lake City, UT 84140
Richard D. Westerberg Date Position Assumed 5-10-95	Vice President 2484 Washington Blvd. Suite 400 Ogden, UT 84401
Bruce N. Williams Date Position Assumed 8-15-90	Assistant Treasurer 825 NE Multnomah, Suite 1900 Portland, OR 97232

Directors of PacifiCorp

W. Charles Armstrong
RR 2, Box 1074
East Sound, WA 98245-9409
Date Position Assumed: 11-13-96

Frederick W. Buckman
700 NE Multnomah, Suite 1600
Portland, OR 97232-4116
Date Position Assumed: 2-9-94

Nolan E. Karras
Karras & Company, Inc..
4695 South 11900 West #3
Roy, UT 84067
Date Position Assumed: 2-17-93

Robert G. Miller
P.O. Box 42121
Portland, OR 97242
Date Position Assumed: 8-10-94

Kathryn A. Braun
Western Digital Corporation
81052 Irvine Center Drive
Irvine, CA 92718
Date Position Assumed: 11-9-94

C. Todd Conover
The Vantage Company
101 First Street, Suite 670
Los Altos, CA 94022
Date Position Assumed: 8-21-91

Keith R. McKennon
Chairman of the Board
700 NE Multnomah, Suite 1600
Portland, OR 97232
Date Position Assumed: 2-9-94

Alan K. Simpson
1201 Sunshine Avenue
Cody, WY 82414
Date Position Assumed: 1-22-97

Verl R. Topham
201 South Main, Suite 2300
Salt Lake City, UT 84140
Date Position Assumed: 5-27-94

Nancy Wilgenbusch
President
Marylhurst College
Marylhurst, OR 97036
Date Position Assumed: 10-8-86

Don M. Wheeler
ICM Company
4901 West 2100 South
Salt Lake City, UT 84120
Date Position Assumed: 1-11-89

Peter I. Wold
Wold Oil & Gas
139 West Second St., P.O. Box 114
Casper, WY 82608
Date Position Assumed: 5-9-95

Resigned/Retired Officers

Jacqueline S. Bell
Assistant Controller
700 NE Multnomah, Suite 700
Portland, OR 97232
Retired: 4-24-98

John Detjens, II
Assistant Secretary
700 NE Multnomah, Suite 950
Portland, OR 97232
Retired: 12-31-97

William J. Glasgow
Senior Vice President
700 NE Multnomah, Suite 1600
Portland, OR 97232-4116
Resigned: 2-28-95

John C. Hampton
Hampton Resources, Inc.
9400 SW Barnes Rd.
Suite 400
Portland, OR 97725
Retired: 2-14-96

Stanley K. Hathaway
Hathaway, Speight, Kunz and Trautwein
P.O. Box 1208
Cheyenne, WY 82003-1208
Retired: 8-10-94

C. M. Bishop Jr.
Pendleton Woolen Mills
P.O. Box 3030
Portland, OR 97208
Retired: 2-9-95

Richard C. Edgley
Church of Jesus Christ of Latter Day Saints
50 East North Temple
Salt Lake City, UT 84150
Resigned: 4-25-96

A. M. Gleason
700 NE Multnomah, Suite 1600
Portland, OR 97232-4116
Resigned: 5-1-95

J. Brett Harvey
Vice President
201 South Main, 2300 OUC
Salt Lake City, UT 84140
Resigned: 12-31-97

Harry Haycock
Senior Vice President
PacifiCorp
One Utah Center
201 South Main, Suite 2300
Salt Lake City, UT 84140-0021
Resigned: 6-94

Michael C. Henderson
Vice President
825 NE Multnomah, Suite 775
Portland, OR 97232
Resigned: 2-1-98

Thomas A. Lockhart
Vice President
PO Box 720
Casper, WY 82602
Retired: 6-30-98

John E. Mooney
Senior Vice President
201 South Main, 2300 OUC
Salt Lake City, UT 84140
Retired: 3-31-97

Paul N. Pechersky
Vice President
920 SW Sixth, Suite 1500
Portland, OR 97204
Resigned: 7-18-97

Robert F. Lanz
Vice President
700 NE Multnomah, Suite 1600
Portland, OR 97232
Resigned: 12-31-96

Stan M. Marks
Vice President
700 NE Multnomah, Suite 1600
Portland, OR 97232-4116
Resigned: 8-1-94

Edwin J. O'Mara
Vice President
920 SW Sixth, Suite 1500
Portland, OR 97204
Resigned: 3-25-97

H. Arnold Wagner
Assistant Controller and Assistant Secretary
201 South Main, Suite 700
Salt Lake City, UT 84140
Retired: 4-24-98

Energy West Mining Company

Corporate Data Sheet as of Tuesday, September 29, 1998

Business activity : Coal Mining

Status :
Entity Type :
Where Incorporated : Utah
When Incorporated : 7/19/90
How Incorporated :
Incorporating Legislation :
Incorporation Number :

Registered :	*Mailing :*	*Executive :*
CT Corp 50 West Broadway Salt Lake City, Utah USA 84101	15 North Main Box 310 Huntington, Utah USA 84528	700 NE Multnomah, Ste 1600 Portland, Oregon USA 97232

Phone : (503) 813-7208 **Fax :** (503) 813-7246 **Telex :**

Federal Tax ID : 87-0479159
Fiscal Year End :
E.I.N.:

Minute Books : Secretary's Office
Articles & ByLaws : Secretary's Office
Corporate Seal : Secretary's Office

Annual Meeting date : First Wednesday in February
Notice required : 3 Days Minimum
AGM Quorum :

Main :
Secondary :
Environmental :
Phone :

Auditors :
(Option not set) :
Bankers :
Counsel :

System Code: EWM

Data updated: 9/29/98

NOV List thru 1998

Interwest Mining Company NOV Information
Last Revised
1/11/99

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
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
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
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
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
Bridger Coal Company	6/20/95	Jim Bridger Mine	338-T3	100323	WDEQ/ LQD	Surface water diversion channel failed.	$1,000.00	Terminated	7/11/95	Abated 6/28/95	48-00677
Bridger Coal Company	10/22/93	Jim Bridger Mine	338-T3	100274	WDEQ/ LQD	Operating off permit	$3,000.00	Abated	01/06/93	IBR submitted	48-00677
Bridger Coal Company	6/3/93	Jim Bridger Mine	338-T3	100263	WDEQ/ LQD	Failure to control sediment	$1,000.00	Terminated	01/06/93	Sediment removed	48-00677
Bridger Coal Company	9/3/92	Jim Bridger Mine	338-T2	100306	WDEQ/ LQD	Contaminated ground water and soil		Terminated	10/12/92	Remedial action is progressing	48-00677
Centralia Mining Company	4/8/98	Centralia	WA-000ID	98-141-244-1	OSM	Failure to operate impoundment according to approved permit	None	Terminated	5/22/98	Permit revision approved	45-00416 (6/77)
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 (6/77)
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		42-01944
Energy West Mining Company	10/2/92	Cottonwood/ Wilberg	ACT/015/019	92-34-1-1	DOGM	Failure to conduct mining in accordance with approved PAP	$640.00	Terminated	10/22/92	Submit plans for mine discharge by 10/20/92	42-01944 (7-85)
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		42-00121

Interwest Mining Company NOV Information
Last Revised
1/11/99

Company	NOV Date	Pit/Mine	Permit #	NOV #	Agency	Nature of NOV	Assessment	Status	Status Date	Comments	MSHA # and Date of Issuance
Energy West Mining Company	7/7/95	Deer Creek	ACT/015/018	95-35-01-01	DOGM	Failure to obtain a permit prior to conducting coal mining activities.	None	Vacated	8/21/95	Facts appealed to DOGM	42-00120 (6/77)
Energy West Mining Company	9/16/93	Deer Creek	ACT/015/018	93-7-1-3	DOGM	Failure to conduct mining activities in accordance with approved plan - Lower terrace	$500.00	Modified	12/20/93	Abatement submitted	42-00121 (6/77)
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	Appealing Assessment	42-00988
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	6/10/97	Informal Conference 5/15/97	42-00988
Energy West Mining Company	12/2/93	Des-Bee-Dove	ACT/015/017	93-020-190-05	DOGM	Failure to control erosion		Abatement	01/13/94		42-00988 (12/72)
Energy West Mining Company	9/15/95	Hunter Prep Plant	None	94-020-370-002	DOGM	Failure to permit Prep Plant	None	IBLA vacated the CO	4/1/98	IBLA case #95-175	42-02052
Energy West Mining Company	8/20/96	Trail Mt.	ACT/015/009	96-26-2-1	DOGM	Non-coal waste designation	$180.00	Terminated	10/7/96	Paid fine	42-01211
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 (3/9/73)
Glenrock Coal Company	1/17/95	Dave Johnston Mine	291-T4	100530	LQD	Inadequate pre-strip of top soil. Unprotected top soil.	$1,000.00	Terminated	1/17/95	Penalty Vacated 6/7/95	48-00085 (3/9/73)

Termination of NOV
94-020-370-002

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

May 22, 1998

Pam Grubaugh-Littig
Utah Coal Program
Utah Division of Oil, Gas, and Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-5801

Re: Vacation or Termination of Notice of Violation or Cessation Order (94-020-370-002), Cottonwood Coal Blending and Preparation Facility, PacifiCorp, Emery County, Utah.

Dear Pam:

Enclosed is a copy of the Vacation or Termination of Notice of Violation or Cessation Order (94-020-370-002) issued by Office of Surface Mining on April 23, 1998. The vacation of this violation is pursuant to the IBLA decision (95-175) dated April 1, 1998. If you any additional information please give me a call.

Sincerely,

Charles A. Semborski
Geology/Environmental Supervisor

cc: Bill Malencik (DOGM)
Blake Webster (IMC)
Carl Pollastro (EWMC)
Chuck Semborski (EWMC)
Dennis Oakley (EWMC)
Barbara Adams (file)

File: G:\PCCOMMON\PCCOMMON\ENVIRONM\PERMITS\CTWMINE\AMENDMNT\1998\IBLANOT.WPD

U.S. DEPARTMENT OF THE INTERIOR
Office of Surface Mining Reclamation and Enforcement

VACATION OR TERMINATION OF NOTICE OF VIOLATION OR CESSATION ORDER

1. Name: Pacificorp	☐ Permittee ☒ No Permit	Originating Office Address: O.S.M. - DFD, 1999 Broadway, Suite 3320, Denver, CO 80202
2. Mailing Address: One Utah Center, Suite 2100, 201 S. Main, Salt Lake City, UT 84140-0021		
3. Name of Mine: Cottonwood Coal Blending and Preparation Facility	☐ Surface ☐ Underground ☒ Other (Specify)	
4. Telephone Number: 801-220-2000	5. County: Emery / State: UT	Telephone Number: 303-844-1445
6. Operator's Name: Energy West Mining Co.		8. Date of Inspection: 4/23/98 Admin
7. Mailing Address: P.O. Box 1005, Huntington, UT 84528		9. Time of Inspection: From ____ a.m. p.m. To ____ a.m. p.m.
10. State Permit Number: None	11. NPDES Number: UTG040000	12. MSHA ID Number: 42-02052 / 13. OSM Mine Number:

ACTIONS TAKEN

Authority: Under the authority of the Surface Mining Control and Reclamation Act of 1977 (P.L. 95-87; 30 U.S.C. 1201) the following action is taken:

14. Notice of Violation Number	Dated	15. Cessation Order Number	Dated
— — —		94-020-310-002	9/15/94

16. VIOLATION 1 OF 1 IS ☐ Terminated ☒ Vacated for the Following Reasons:

pursuant to IBLA 95-175 decision dated 4/1/98

17. VIOLATION _____ OF _____ IS ☐ Terminated ☐ Vacated for the Following Reasons:

18. VIOLATION _____ OF _____ IS ☐ Terminated ☐ Vacated for the Following Reasons:

19. Print Name of Authorized Representative: MITCHELL S. ROLLINGS JFF 4/23/98	Identification Number: 370
20. Signature of Authorized Representative: [signature]	Effective Date: 4/1/98

Copy Distribution: White-District Files, Blue-Permittee, Yellow-Assessment Office, Pink-Field Office, Green-Inspector

IE-159 (12/80)

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

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

Lowell P. Braxton
Division Director

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

June 15, 1998

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

Re: Conditions Met on Permits, PacifiCorp, Trail Mountain Mine, ACT/015/009, Des-Bee-Dove Mine, ACT/015/017, Deer Creek Mine, ACT/015/018, Cottonwood/Wilberg Mine, ACT/015/019, Folder #3, Emery County, Utah

Dear Mr. Semborski:

A condition was attached to all of the above-noted mine permits which read: "PacifiCorp must notify the Division within 14 days of the decision on the appeal of outstanding cessation order 94-020-370-002, 1 of 1." This Interior Board of Lands Appeal decision was made on April 1, 1998 and PacifiCorp notified the Division on April 9, 1998. This federal violation was terminated on April 23, 1998, effective April 1, 1998.

All of the AVS recommendations for these mines with an "issue" recommendation are attached.

Sincerely,

Pamela Grubaugh-Littig
Permit Supervisor

Enclosure
cc: PFO
Daron Haddock
Joe Helfrich
O:\015009.TMT\FINAL\CONDMET.WPD

File Edit Setup Execute Connect Help

AVS Recom Maint Applicant Violator System 11-Jun-1998 09:52:58

State : UT Permit No : ACT015019 Appl No : ACT015019
Permittee : 108521(PACIFICORP) Seqno : 3
Applicant : 108521(PACIFICORP)

SYSTEM : C (COND ISSUE) Date : 08-Jun-1998 Mode : VIEW
Reason: 0 AML, 0 AUD, 1 CMIS, 0 FORF, 0 STATE, 0 NRSP VIOLATION(S)

OSMRE : I (ISSUE) Date : 08-Jan-1998 Mode : VIEW
Reason: The violation was vacated by the Judge in the IBLA hearing.

SRA : Date : 11-Jun-1998 Mode : UPDATE
Reason:

SAVE(F5) DELETE(F8)
PRV_SCR(F3) QUIT(F4) CHOICES(F10)

CMD KER DDE WINSOCK Node Connected CLR

UT220 86 ONLINE 18 11 Hold

Start Hand-delivered Applicatio... A MS320 | avsdg osmre gov ... 9:59 AM

File Edit Setup Execute Connect Help

Applicant Evaluation Applicant Violator System 11-Jun-1998 10:29:24

State : UT Permit No : ACT015009 Appl No : ACT015009
Applicant : 108521(PACIFICORP) Seqno : 2

SYSTEM RECOMMENDATION IS BASED ON ENTITY OFT

SYSTEM RECOMMENDATION	: ISSUE	06/11/1998
PREVIOUS SYSTEM RECOMMENDATION	: CONDITIONAL	04/13/1998

RCM_MNT(F7) PERMIT/APPL(F8)
PRV_SCR(F3) EVOFT(F5) REPORTS(F9) CHOICES(F10)

CMD KER DDE WINSOCK Node Connected CLR

UT220 80 ONLINE 9 45 Hold

Start Find All Files 10:39 AM

File Edit Setup Execute Connect Help

Applicant Evaluation Applicant Violator System 11-Jun-1998 10:10:24

State : UT Permit No : ACT015017 Appl No : ACT015017
Applicant : 108521(PACIFICORP) Seqno : 2

SYSTEM RECOMMENDATION IS BASED ON ENTITY OFT

SYSTEM RECOMMENDATION	: ISSUE	06/11/1998
PREVIOUS SYSTEM RECOMMENDATION	: CONDITIONAL	09/08/1995

RCM_MNT(F7) PERMIT/APPL(F8)
PRV_SCR(F3) EVOFT(F5) REPORTS(F9) CHOICES(F10)

CMD KER DDE WINSOCK Node Connected CLR

VT220 80 ONLINE 9 45 Hold

Start 10:18 AM

MS 320 | avsdg.osmre.gov - 1 |

File Edit Setup Execute Connect Help

Applicant Evaluation Applicant Violator System 11-Jun-1998 10:24:28

State : UT Permit No : ACT015018 Appl No : ACT015018
Applicant : 108521(PACIFICORP) Seqno : 4

SYSTEM RECOMMENDATION IS BASED ON ENTITY OFT

SYSTEM RECOMMENDATION	: ISSUE	06/11/1998
PREVIOUS SYSTEM RECOMMENDATION	: ISSUE	06/11/1998

RCM_MNT(F7) PERMIT/APPL(F8)
PRV_SCR(F3) EVOFT(F5) REPORTS(F9) CHOICES(F10)

CMD KER DDE WINSOCK Node Connected CLR

VT220 80 ONLINE 9 45 Hold

Start I-delivered Applicatio... MS 320 | avsdg.osmre.gov ... 10:29 AM

M5320 [avsdg.osmre.gov - 1]

File Edit Setup Execute Connect Help

Applicant Evaluation Applicant Violator System 11-Jun-1998 10:21:45

State : UT Permit No : ACT015019 Appl No : ACT015019
Applicant : 108521(PACIFICORP) Seqno : 3

SYSTEM RECOMMENDATION IS BASED ON ENTITY OFT

SYSTEM RECOMMENDATION	: ISSUE	06/11/1998
PREVIOUS SYSTEM RECOMMENDATION	: CONDITIONAL	06/08/1998

RCM_MNT(F7) PERMIT/APPL(F8)
PRV_SCR(F3) EVOFT(F5) REPORTS(F9) CHOICES(F10)

CMD KER DDE WINSOCK Node Connected CLR

VT220 80 ONLINE 9 45 Hold

Start delivered Applicatio... M5320 [avsdg.osmre.gov ... 10:26 AM

Assessment of NOV N-98-41-1-1

ENERGY WEST Mining Co.
P 310
Hu...gton, Utah 84528

February 27, 1998

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

Attention: Ms. Vicki Baily

Re: Proposed Assessment for State Violation No. N-98-41-1-1, PacifiCorp, Des-Bee-Dove mines, ACT/015/017, Folder #5, Emery County, Utah.

PacifiCorp, by and through its wholly-owned subsidiary, Energy West Mining Company ("Energy West") as mine operator, herewith submits assessed penalty payment of $160.00 for State Violation No. N-98-41-1-1.

Sincerely,

Charles A. Semborski
Geology/Environmental Supervisor

cc: Blake Webster, Interwest Mining
Carl Pollastro
Environmental Staff
(File)

G:\PCCOMMON\PCCOMMON\ENG\ENVIRONM\DBD\DOGMNOV 298

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 ANY

A Subsidiary of PacifiCorp
P.O. Box 310
HUNTINGTON, UTAH 84528

No. 131823

FIRST CHICAGO
The First National Bank of Chicago

70-2322 / 719

DATE
Mar 04,1998

**********160 DOLLARS 00 CENTS

AMOUNT
$160.00

CHECK NUMBER
131823

PAY TO THE ORDER OF

UTAH DIVISION OF OIL, GAS & MINING
1594 WEST NORTH TEMPLE, SUITE 1210
BOX 145801
SALT LAKE CITY , UT 84114-5801

⑈131823⑈ ⑆071923226⑆ 94 17796⑈

BANK NUMBER	DATE	VENDOR NUMBER	CHECK NUMBER	No. 131823
FIB	Mar 04,1998	DOGM	131823	

INVOICE REFERENCE	INVOICE NO.	INV. DATE	GROSS AMOUNT	DISCOUNT	PAYMENT AMT.
1998-03-AP	-04052 REQ 98-02	1998/02/27	160.00		160.00

PLEASE DETACH
BEFORE DEPOSITING

TOTALS: 160.00

ENERGY WEST MINING COMPANY - P.O. BOX 310 - HUNTINGTON, UTAH 84528

[redacted]

STATE OF UTAH
NATURAL RESOURCES
Division of Oil, Gas & Mining
3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

notice of violation

NO. N 98-41-1-1

To the following Permittee or Operator:

Name: PacifiCorp

Mine: Dee Bee Dove ☐ Surface ☒ Underground ☐ Other

County: Emery State: Utah Telephone: (435) 687-2000

Mailing Address: P.O. Box 310 Huntington, Utah 84528

State Permit No.: ACT/015/017

Ownership Category: ☐ State ☐ Federal ☐ Fee ☒ Mixed

Date of Inspection: January 20, 1998

Time of Inspection: 1:45 ☐ a.m. ☒ p.m. to 1:55 ☐ a.m. ☒ p.m.

Operator (Name if other than Permittee): Energy West Mining

Mailing Address: Same as above

Under authority of the Utah Coal Mining and Reclamation Act, Section 40-10-1 et seq., Utah Code Annotated 1953, the undersigned authorized representative of the Division of Oil, Gas & Mining has conducted an inspection of above mine on above date and has found violation(s) of the act, regulations or required permit conditions(s) listed in attachment(s). This notice constitutes a separate Notice of Violation for each violation listed.

You must abate each of these violations within the designated abatement time. You are responsible for doing all work in a safe and workmanlike manner.

The undersigned representative finds that **cessation of mining is** ☐ **is not** ☒ expressly or in practical effect required by this notice. For this purpose, "mining" means extracting coal from the earth or a waste pile, and transporting it within or from the mine site.

This notice shall remain in effect until it expires as provided on reverse side of this form, or is modified, terminated or vacated by written notice of an authorized representative of the director of the Division of Oil, Gas & Mining. Time for abatement may be extended by authorized representative for good cause, if a request is made within a reasonable time before the end of abatement period.

CERTIFIED RETURN RECEIPT
Z 230 747 308

Date of service/mailing: JAN. 22, 1998 Time of service/mailing: 2:00 ☐ a.m. ☒ p.m.

Charles Semborski
Permittee/Operator representative

Resident Agent
Title

Mailed From SLC Office
Signature

Paul B. Baker
Division of Oil, Gas & Mining representative

Reclamation Biologist
Title

Signature

41
Identification Number

SEE REVERSE SIDE

PSC- C3

WHITE-DOGM YELLOW-OPERATOR PINK-OSM GOLDENROD-NOV FILE

DOGM/NOV-1

an equal opportunity employer

Rev. 5/92

UTAH
NATURAL RESOURCES
Oil, Gas & Mining

NOTICE OF VIOLATION NO. N 98-41-1-1

Violation No. 1 of 1

Nature of violation

Failure to protect stockpiled soil from unnecessary compaction.

Provisions of act, regulations or permit violated

R645-301-234.200

Portion of operation to which notice applies

Soil stockpile near the sediment pond.

Remedial action required (including any interim steps)

Reduce compaction on top of the soil pile through ripping at least 18" deep or gouging. Seed the area using the final revegetation seed mix plus Gardner saltbrush at 2 lbs. pure live seed per acre, and report this seeding in the annual report for 1998. Mulch using methods specified in the mining and reclamation plan. Build a fence, berm, or other physical barrier to keep vehicles off the stock

Abatement time (including interim steps)

February 11, 1998

WHITE-DOGM YELLOW-OSM PINK-PERMITTEE/OPERATOR GOLDENROD-NOV FILE

DOGM/NOV-2

an equal opportunity employer

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

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
Lowell P. Braxton
Division Director

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

January 27, 1998

CERTIFIED RETURN RECEIPT
Z 230 747 307

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

Re: Proposed Assessment for State Violation No. N98-41-1-1, PacifiCorp, Des Bee Dove Mine, ACT/015/017, Folder #5, Emery County, Utah

Dear Mr. Semborski:

The undersigned has been appointed by the Division of Oil, Gas and Mining as the Assessment Officer for assessing penalties under R645-401.

Enclosed is the proposed civil penalty assessment for the above-referenced violation. The violation was issued by Division Inspector, Paul B. Baker on January 22, 1998. Rule R645-401-600 et. seq. has been utilized to formulate the proposed penalty. By these rules, any written information which was submitted by you or your agent, within fifteen (15) days of receipt of the Notice of Violation, has been considered in determining the facts surrounding the violation and the amount of penalty.

Under R645-401-700, there are two informal appeal options available to you:

1. If you wish to informally appeal the fact of this violation, you should file a written request for an Informal Conference within 30 days of receipt of this letter. This conference will be conducted by the Division Director. This Informal Conference is distinct from the Assessment Conference regarding the proposed penalty.

2. If you wish to review the proposed penalty assessment, you should file a written request for an Assessment Conference within 30 days of receipt of this letter. If

you are also requesting a review of the fact of violation, as noted in paragraph 1, the Assessment Conference will be scheduled immediately following that review.

If a timely request for review is not made, the fact of violation will stand, the proposed penalty(ies) will become final, and the penalty(ies) will be due and payable within thirty (30) days of the proposed assessment. Please remit payment to the Division, mail c/o Vicki Bailey.

Sincerely,

Pamela Grubaugh-Littig
Assessment Officer

tat
Enclosure
cc: James Fulton, OSM
Vicki Bailey, DOGM
O:\015017.DBD\ASSESMNT\9841-1-1.LTR

WORKSHEET FOR ASSESSMENT OF PENALTIES
DIVISION OF OIL, GAS, & MINING

COMPANY/MINE PacifiCorp/ Des-Bee-Dove Mine NOV# N-98-41-1-1

PERMIT ACT/015/017 VIOLATION 1 OF 1

ASSESSMENT DATE 01/26/1998 ASSESSMENT OFFICER Pamela Grubaugh-Littig

I. HISTORY MAX 25 POINTS

A. Are there previous violations, which are not pending or vacated, which fall within 1 year of today's date?

PREVIOUS VIOLATIONS	EFFECTIVE DATE	POINTS

1 point for each past violation, up to one year
5 points for each past violation in a CO, up to one year
No pending notices shall be counted

TOTAL HISTORY POINTS 0

II. SERIOUSNESS (EITHER A OR B)

NOTE: For assignment of points in Parts II and III, the following apply:

- Based on facts supplied by the inspector, the Assessment Officer will determine within each category the violation falls.
- Beginning at the mid-point of the category, the Assessment Officer will adjust the point up or down, utilizing the inspector's and operator's statements as guiding documents.

Is this an Event (A) or Hindrance (B) violation? A

A. EVENT VIOLATION MAX 45 POINTS

1. What is the event which the violated standard was designed to prevent?

Loss of reclamation/ revegetation potential.

2. What is the probability of the occurrence of the event which a violated standard was designed to prevent?

PROBABILITY	RANGE
None	0
Unlikely	1-9
Likely	10-19
Occurred	20

ASSIGN PROBABILITY OF OCCURRENCE POINTS 8

PROVIDE AN EXPLANATION OF POINTS:

Equipment was parked on the topsoil stockpile. However, with abatement, there should be no long lasting effects, so ultimately, the reclamation potential should not be adversely affected.

3. What is the extent of actual or potential damage? RANGE 0-25

In assigning points, consider the duration and extent of said damage or impact, in terms of area and impact on the public or environment.

ASSIGN DAMAGE POINTS 8

PROVIDE AN EXPLANATION OF POINTS:

The top portion of the topsoil stockpile had been compacted by parked equipment.

B. HINDRANCE VIOLATION MAX 25 POINTS

1. Is this a potential or actual hindrance to enforcement? _ RANGE 0-25

Assign points based on the extent to which enforcement is actually or potentially hindered by the violation.

ASSIGN HINDRANCE POINTS 0

PROVIDE AN EXPLANATION OF POINTS:

TOTAL SERIOUSNESS POINTS (A OR B) 16

III. NEGLIGENCE MAX 30 POINTS

A. Was this an inadvertent violation which was unavoidable by the exercise of reasonable care? IF SO--NO NEGLIGENCE: or was this a failure of a permittee to prevent the occurrence of a violation due to indifference lack of diligence, or

lack of reasonable care, or the failure to abate any violation due to the same? IF SO--GREATER DEGREE OF FAULT THAN NEGLIGENCE.

No Negligence	0
Negligence	1-15
Greater Degree of Fault	16-30

STATE DEGREE OF NEGLIGENCE Negligence

ASSIGN NEGLIGENCE POINTS 8

PROVIDE AN EXPLANATION OF POINTS:

The operator had been advised of this situation during the December inspection.

IV. GOOD FAITH MAX 20 POINTS
(Either A or B)
(Does not apply to violations requiring no abatement measures)

A. Did the operator have onsite the resources necessary to achieve compliance of the violated standard withing the permit area?
IF SO--EASY ABATEMENT
Easy Abatement Situation
Immediate Compliance -11 to -20*
(Immediately following the issuance of the NOV)
Rapid Compliance -1 to -10
(Permittee used diligence to abate the violation)
Normal Compliance 0
(Operator complied within the abatement period required)
(Operator complied with conditions and/or terms of approved Mining and Reclamation Plan)

*Assign in upper or lower half of range depending on abatement occurring the 1st or 2nd half of abatement period.

B. Did the permittee not have the resources at hand to achieve compliance, or does the situation require the submission of plans prior to physical activity to achieve compliance?
IN SO--DIFFICULT ABATEMENT
Difficult Abatement Situation
Rapid Compliance -11 to -20*
(Permittee used diligence to abate the violation)
Normal Compliance -1 to -10*
(Operator complied within the abatement period required)

Extended Compliance 0
(Permittee took minimal actions for abatement to stay within the limits of the NOV or the violated standard of the plan submitted for abatement was incomplete)
(Permittee complied with conditions and/or terms of approved Mining and Reclamation Plan)

EASY OR DIFFICULT ABATEMENT? Easy

ASSIGN GOOD FAITH POINTS 8

PROVIDE AN EXPLANATION OF POINTS:

The inspector was notified on 1/27/98 that the seeding had been completed, which was rapid compliance.

V. ASSESSMENT SUMMARY

NOTICE OF VIOLATION		N-98-41-1-1
I.	TOTAL HISTORY POINTS:	0
II.	TOTAL SERIOUSNESS POINTS:	16
III.	TOTAL NEGLIGENCE POINTS:	8
IV.	TOTAL GOOD FAITH POINTS:	8
	TOTAL ASSESSED POINTS:	16
	TOTAL ASSESSED FINE:	**$160.00**

tt
O:\015017.DBD\ASSESMNT\9841-1-1.WPD

BLM ROW UTU-50148
Des Bee Dove Haul Road

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Price Field Office
125 South 600 West
Price, Utah 84501

2810
UTU-50148
(UT-066)

CERTIFIED MAIL--Return Receipt Requested
Certification No. 299 521 283

June 11, 1998

DECISION

Assignor
PacifiCorp, c/o Interwest Mining Co.
ATTN: Scott M. Child
201 South Main, Suite 2000
Salt Lake City, Utah 84140-0020

Assignee
Emery County Road Department
P.O. Box 889
Castle Dale, Utah 84513

JUN 1998
Received
Interwest Mining Company

Right-of-Way Assigned
Details of Assignment

On April 30, 1998, Emery County Road Department filed an application to have right-of-way UTU-50148 assigned to it. The subject application was filed under authority of Section 501 of the Federal Land Policy and Management Act of 1976 (90 Stat. 2776; 43 U.S.C. 1761).

All conditions have been met to approve assignment of the subject right-of-way. Right-of-way UTU-50148 (DesBeeDove Road) is hereby assigned to Emery County Road Department. The assignment is subject to the following terms and conditions:

1. The Assignee is exempt from payment of rental under 43 CFR 2803.1-2(b)(1)(i).

2. The legal description of the subject right-of-way is as follows:

Township	Range	Section	Subdivision
17 S.	7 E.	35	E½E½

3. All other terms, conditions, and stipulations found in the grant remain in full force and effect.

Authority for such action is Section 501 of the Federal Land Policy and Management Act of 1976, (90 Stat. 2776, 43 U.S.C. 1761), and the Code of Federal Regulations Chapter 43, part 2801.1-1.

This decision may be appealed to the Interior Board of Land Appeals, Office of the Secretary, in accordance with the regulations contained in 43 CFR, Part 4 and the enclosed form 1842-1. If

an appeal is taken, your notice of appeal must be filed in this office (at the above address) within thirty (30) days from receipt of this decision. The appellant has the burden of showing that the decision appealed from is in error.

Thomas E. Rasmussen

Thomas E. Rasmussen
Assistant Field Manager

Enclosure
Form 1842-1 (Assignee only)

Is your RETURN ADDRESS completed on the reverse side?

SENDER: sh utu-50148

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:
ATTN SCOTT M CHILD
PACIFICORP
C/O INTERWEST MINING CO
201 S MIN STE 2000
SALT LAKE CITY UT 84140-0020

4a. Article Number
P 299 521 283

4b. Service Type
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery
6-16-98

5. Signature (Addressee)
Carmen Walsh

6. Signature (Agent)

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1991 *U.S. GPO: 1993—[illegible]-714 **DOMESTIC RETURN RECEIPT**

Thank you for using Return Receipt Service.

SITLA ROW
2470 & 446

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

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

September 16, 1998

Mr. Jan Parmenter
Trust Lands Manager, Southeast Area
Utah State School & Institutional
Trust Lands Administration
1165 South Highway 191, Suite 5
Moab, Utah 84532

RE: Application for Approval of Assignments - PacifiCorp to Emery County SITLA Right-of-Way No. 2470 and Easement No. 446 - Des-Bee-Dove Mine Haul Road, Section 36, T. 17 S., R. 7 E., SLB&M, Emery County, Utah

Dear Jan:

Enclosed are two (2) applications for approval of the assignment of SITLA right-of-way no. 2470 and easement no. 446 from PacifiCorp to Emery County, Utah. Each application includes their respective Assignment of Instrument executed by both parties. Also, accompanying this submittal is a check in the amount of $400.00 to cover the required processing fees ($200 per application).

Please process these applications to complete the transfer and assignment of the referenced right-of-way and easement to Emery County.

Upon SITLA's approval and acceptance would you please forward copies of the fully executed documents to myself at the above address and to Mr. Val Payne, Director of Public Lands, Emery County, P.O. Box 1298, Castle Dale, Utah 84513.

Should you have any questions or need any other information, please call me at 801-220-4612 or Val at 435-381-5552. Your help in bringing this matter to a close is very much appreciated.

Sincerely,

Scott M. Child
Property Management Administrator

Enclosures

SMC\SITLA988.wpd

cc: IWMC - C. Semborski w/copy encl.
Emery County - V. Payne w/copy encl.

INTERWEST
MINING COMPANY
201 South Main, Suite 700
Salt Lake City, Utah 84140-0007

DATE 03/13/98 CHECK NO. 0003658

FIRST NATIONAL BANK OF CHICAGO 2-1
CHICAGO IL 0719

AMOUNT $**********400.00**

PAY TO THE ORDER OF:
STATE OF UTAH
TRUST LANDS ADMINISTRATION
1165 S HWY 191 STE 5
MOAB UT 84532

⑈0003658⑈ ⑆071923226⑆ 94 27279⑈

Pacific Power
Utah Power

PAYEE	PAYEE NO.	DATE	CHECK NO.
STATE OF UTAH	060990	03/13/98	0003658

INVOICE NUMBER	DATE	PURCHASE DOCUMENT	AMOUNT	DISCOUNT/ ADJUSTMENTS	NET AMOUNT
CRCW98016	03/10/98	1287195	400.00		400.00

ASSIGNMENT FEES EASEMENT NO 446 RIGHT-OF-WAY NO 2470

CARMEN WALSH OUC 2000 EXT 4140

CHECK TOTAL 400.00

The State of Utah
School and Institutional
Trust Land Administration

DATE: August 7, 1998

APPLICATION FOR APPROVAL OF ASSIGNMENT
SURFACE

STATE OF UTAH)
)ss.
COUNTY OF SALT LAKE)

Applicant's Name & Mailing Address:

PacifiCorp
c/o Interwest Mining Co.
201 South Main, Suite 2000
Salt Lake City, UT 84140

Type of Instrument: Easement

Number of Instrument: 446

I (We), being first duly sworn, do depose and say that I (we) do hereby make application for permission to assign to:

Emery County
Emery County Courthouse
95 East Main
Castledale, UT 84513

100% of my (our) rights, title, interest, and priviledges in the above-referenced instrument.

It is hereby certified that the statements made herein are true , complete, and correct to the best of my (our) knowledge and belief and are made in good faith, and that the applicant has legal authority.

Applicant's Signature Dan R. Baker
Vice President of PacifiCorp

AUTHORITY: _____
(Officer, Agent, Attorney-in-Fact)

The foregoing application was acknowledged before me this 13TH day of August, 1998, by Dan R. Baker.

My Commission Expires:

NOTARY PUBLIC
SCOTT M. CHILD
201 So. Main St., Ste. 2000
Salt Lake City, Utah 84140
My Commission Expires
June 8, 2000
STATE OF UTAH

Notary Public, residing at:

This application must be accompanied by a $1.00 per AUM ($20.00 minium) for a grazing assignment.
All other surface assignments (SULA, ESMT, ROW, ROE, MP) are $200.00 fee per lease/permit.

Revised 6/3/94

STATE OF UTAH
School and Institutional
Trust Lands Administration

Assignment of Instrument
CORPORATE

Instrument Number: Easement 446
Legal Description: See attached.

The undersigned, as owner of record title interest as hereinafter described, for good and valuable consideration and $ 200.00 DOLLARS does hereby assign to

Emery County
Emery County Courthouse
95 East Main
Castledale, UT 84513

the rights, title, interest, and privileges in the above referenced instrument, as indicated on the application which is attached to and made a part hereof.

It is hereby certified that the statements made herein are true, complete, and correct to the best of the undersigned's knowledge and belief and are made in good faith.

Executed this 13TH day of August, 1998.

(Assignor) PacifiCorp
By: Dan R. Baker
Its: Vice President

Assignor's Acknowledgment

STATE OF UTAH)
) ss.
COUNTY OF SALT LAKE

The foregoing assignment was acknowledged before me this 13TH day of August, 1998 by Dan R. Baker, Vice President of PacifiCorp.

My Commission Expires:

NOTARY PUBLIC
SCOTT M. CHILD
201 So. Main St., Ste. 2000
Salt Lake City, Utah 84140
My Commission Expires
June 8, 2000
STATE OF UTAH

Notary Public, residing at:

Corporate Acceptance of Assignment

Comes now Emery County, a ~~corporation~~ political subdivision of the State of Utah which is qualified to do business in the State of Utah, and hereby accepts the assignment from Dan R. Baker, Vice President of PacifiCorp, which assignment is dated August 13, 1998, subject to all of the covenants and obligations of the holder of said instrument.

Executed this 4TH day of ~~August~~ SEPTEMBER, 1998.

BY:

AUTHORITY: Randy G. Johnson, Emery County Commission
(Officer, Agent, Attorney-in-Fact)

EASEMENT

Fund: School
Easement No. 446

THE STATE OF UTAH, by and through the School and Institutional Trust Lands Administration, GRANTOR, in consideration of the payment of $1,035, plus a $600.00 application fee, receipt of which is acknowledged, and the promise of the GRANTEE to pay an administrative fee as provided by Administration Rules R850-40-1800 and R850-4-100, as amended or replaced, to the GRANTOR on or before January 1, 2001, and every third year thereafter, or within 10 days of notice from GRANTOR that payment is due, hereby grants to PacifiCorp, % Interwest Mining Company, 201 South Main Street, Suite 2000, Salt Lake City, UT 84140, GRANTEE, the right to construct, operate, repair and maintain an access road on state trust lands described as follows:

Township 17 South, Range 7 East SLB&M Emery County

Sec. 36: Beginning at a point which is 209.88 feet S 0°08' W along the section line of the Northwest corner of Section 36, Township 17 South, Range 7 East, SLB&M., said point being on the south right of way line of Des-Bee-Dov Cross-Over Road; thence S 0°08' W, 84.98 feet along the section line; thence N 88°27'37" E, 322.85 feet; thence S 40°36'49" E, 1213.53 feet to a point on a non-tangent circular curve to the left having a Radius of 912.96 feet and an Arch length of 596.74 feet; thence Southeasterly, 596.74 feet along said curve (chord bears S 53°48'13" E, 586.18 feet); thence N 17°28'16" E, 130.00 feet to the south right of way line of said road at a point on a non-tangent circular curve to the right having a Radius of 782.96 feet and an Arc length of 517.82 feet; thence Northwesterly, 517.82 feet along said right of way (chord bears N 53°34'56" W, 508.43 feet); thence N 40°36'49" W, 1177.51 feet along said right of way to a point on a non-tangent circular curve to the left having a Radius of 267.46 feet and an Arc length of 33.30 feet; thence Northwesterly, 33.30 feet along said curve on said right of way (chord bears N 46°47'08" W, 33.28 feet); thence N 39°38'53" E, 60.00 feet along said right of way to a point on a non-tangent circular curve to the left having a Radius of 327.47 feet and an Arc length of 517.31 feet; thence Westerly, 517.31 feet along said curve on said right of way (chord bears S 84°23'31" W, 465.17 feet) to the point of beginning. Containing 6.9 acres, more or less.

School and Institutional
Trust Land Administration

DATE: August 9, 1998

APPLICATION FOR APPROVAL OF ASSIGNMENT
SURFACE

STATE OF UTAH)
)ss.
COUNTY OF SALT LAKE

Applicant's Name & Mailing Address:

PacifiCorp
c/o Interwest Mining Co.
201 South Main Street, Suite 2000
Salt Lake City, UT 84140

Type of Instrument: Right-of-Way

Number of Instrument: 2470

I (We), being first duly sworn, do depose and say that I (we) do hereby make application for permission to assign to:

Emery County
Emery County Courthouse
95 East Main
Castledale, UT 84513

00% of my (our) rights, title, interest, and priviledges in the above-referenced instrument.

It is hereby certified that the statements made herein are true , complete, and correct to the best of my (our) knowledge and belief and are made in good faith, and that the applicant has legal authority.

Applicant's Signature Dan R. Baker
Vice President of PacifiCorp

AUTHORITY: _____
(Officer, Agent, Attorney-in-Fact)

The foregoing application was acknowledged before me this 13TH day of August, 19~~98~~, by Dan R. Baker.

My Commission Expires:

NOTARY PUBLIC
SCOTT M. CHILD
201 So. Main St., Ste. 2000
Salt Lake City, Utah 84140
My Commission Expires
June 8, 2000
STATE OF UTAH

Notary Public, residing at:

This application must be accompanied by a $1.00 per AUM ($20.00 minium) for a grazing assignment.
All other surface assignments (SULA, ESMT, ROW, ROE, MP) are $200.00 fee per lease/permit.

Revised 6/3/94

STATE OF UTAH
School and Institutional
Trust Lands Administration

Assignment of Instrument
CORPORATE

Instrument Number: Right-of-Way #2470
Legal Description: See attached.

The undersigned, as owner of record title interest as hereinafter described, for good and valuable consideration and $ 200.00 DOLLARS does hereby assign to

Emery County
Emery County Courthouse
95 East Main
Castledale, UT 84513

the rights, title, interest, and privileges in the above referenced instrument, as indicated on the application which is attached to and made a part hereof.

It is hereby certified that the statements made herein are true, complete, and correct to the best of the undersigned's knowledge and belief and are made in good faith.

Executed this 13TH day of August, 19 98.

(Assignor) PacifiCorp
By: Dan R. Baker
Its: Vice President

Assignor's Acknowledgment

STATE OF UTAH)
) ss.
COUNTY OF SALT LAKE

The foregoing assignment was acknowledged before me this 13TH day of August, 19 98 by Dan R. Baker, Vice President of PacifiCorp

My Commission Expires:

NOTARY PUBLIC
SCOTT M. CHILD
201 So. Main St., Ste. 2000
Salt Lake City, Utah 84140
My Commission Expires
June 8, 2000
STATE OF UTAH

Notary Public, residing at:

Corporate Acceptance of Assignment

Comes now Emery County, a ~~corporation~~ political subdivision of the State of Utah which is qualified to do business in the State of Utah, and hereby accepts the assignment from Dan R. Baker, Vice President of PacifiCorp, which assignment is dated August 13, 1998, subject to all of the covenants and obligations of the holder of said instrument.

Executed this 4TH day of ~~August~~ SEPTEMBER, 19 98.

BY:

AUTHORITY: Randy G. Johnson, Emery County Commission
(Officer, Agent, Attorney-in-Fact)

Parce

Township 18 South, Range 7 E., SLB&M
Section 2: NE¼, NW¼SE¼, NE¼SW¼ Emery Co.

Township 17 South, Range 7 East, SLB&M
Section 36: E½NW¼, NW¼NW¼ Emery Co.

Beginning at the east right of way line of the Wilberg Coal Mine to Deseret Coal Mine, coal haul road and the north boundary line of Section 2, T18S, R7E., SLB&M, at point 965 feet west, more or less along the section line from the northeast corner of said Section 2, thence S19° 50' 51" W. 2971.81 feet, thence to the right on the arc of a curve whose radius is 1064.93 feet, a distance of 666.29 feet, thence S55° 41' 45" W. 379.42 feet to the center of existing state road No. 29, thence N 34° 18' 15"W. 220 feet along said center of existing road, thence N 55° 41' 45" E. 379.42 feet, thence to the left on the arc of a curve whose radius is 844.93 feet, a distance of 528.65 feet, thence N. 19° 50' 51" E. 2892.39 feet to said north boundary line of said Section 2, thence East 233.89 feet along said north boundary line of said Section 2 to the point of beginning. Containing 19.49 acres.

Beginning at the northwest corner of Section 36, T17S, R7E, SLB&M, thence East 794.41 feet, along the north boundary line of said Section 36, thence S 43° 13' 09" E. 716.36 feet, thence to the right on the arc of a curve, whose radius is 916.20 feet, a distance of 137.25 feet, thence S. 53° 06' 41" E. 157.74 feet, thence S. 36° 08' 13" E. 373.74 feet, thence S. 71° 03' E. 298.15 feet, thence to the left on the arc of a curve whose radius is 462.96 feet a distance of 996.74 feet, thence N. 39° 06' 51" E., 10 feet, thence N. 50° 53' 09" W. 497.14 feet, thence East 317.03 feet, along the north boundary line of said Section 36, thence S. 50° 53' 09" E. 251.16 feet, thence N. 39° 06' 51" E. 10 feet, thence to the right on the arc of a curve, whose radius is 682.96 feet a distance of 1169.64 feet, thence S. 42° 45' 39" E. 100 feet, thence to the right on the arc of a curve, whose radius is 782.96 feet a distance of 1340.90 feet, thence N. 40° 51' 53" W. 322.58 feet, thence to the left on the arc of a curve, whose radius is 471.20 feet a distance of 70.59 feet, thence N. 43° 13' 09" W. 784.43 feet, thence to the left on the arc of a curve whose radius is 1,102.59 feet, a distance of 145.33 feet, thence N. 15° 38' 55" E. 60 feet, thence to the left of the arc of a curve, whose radius is 1,162.59 feet a distance of 381.13 feet, thence North 208.98 feet, along the west boundary line of said Section 36, to the point of beginning and being in the E½ of the NW¼ and the NW¼ of the NW¼ of Section 36, T17S, R7E, SLB&M, and containing 29.85 acres.

Total acreage 49.34 acres. See Exhibt A for survey map.

PARCEL II

Temporary Equipment Storage Yard and Access Road

Township 18 South, Range 7 East, SLB&M
Section 2:

Commencing at a point S 54° 37'11" E. 110.00 ft. from centerline station 236+00 of the Deseret Coal Road to the Wilburg Coal Road, Utah Power & Light Company. Project No. SP-1759. Said point also being East 434 ft. and South 374 ft. from the center of section 2, Township 18 South, Range 7 East, SLB&M.

Thence S 54°37'11" E. 500 ft.
Thence southwesterly 327.76 ft. along the arc of A 1564.93 ft. radius curve to the right;
Thence N 42°37'11" W 500 ft.
Thence northeasterly 223.04 ft. along the arc of a 1064.93 ft. radius curve to the left, to the point of beginning.
Containing 3.16 acres more or less.

Final Bond Release for the Des Bee Dove Haul Road

IN REPLY REFER TO:

United States Department of the Interior

OFFICE OF SURFACE MINING
Reclamation and Enforcement
1999 Broadway, Suite 3320
Denver, Colorado 80202-5733

August 31, 1998

Mr. Lowell P. Braxton,
Division Director
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-5801

RE: Decision Document to Approve an Alternative Postmining Land Use and Final Bond Release for the Des-Bee-Dove Mine Haul Road

Dear Mr. Braxton:

This letter acknowledges the Office of Surface Mining's (OSM) receipt and review of the subject Decision Document prepared by the Utah Division of Oil, Gas and Mining (DOGM). The Des-Bee-Dove Mine permit area, including the haul road, contains Federal lands. OSM is in agreement with the decision document and hereby provides OSM concurrence to release final bond liability on the Des-Bee-Dove Mine haul road in accordance with the Federal regulations at 30 CFR 740.15 (d) (3), and 30 CFR 944.30, Article IX, section B, of the Federal - State Federal lands cooperative agreement.

The decision document thoroughly recounts the permitting and regulatory history of the haul road and also documents actions required by the permittee, affected surface land owners, government land management agencies, Emery County, and DOGM, to approve the alternative postmining land use in accordance with Utah Rule R645-301-412. The Forest Service, the Bureau of Land Management, the Utah State Institutional Trust Lands Administration, and Emery County have all provided letters concurring with the alternative postmining land use and transfer of the appropriate rights-of-way to Emery County. These letters, by approving rights-of-way transfer to Emery County, also concur with removal of the haul road from the permit area in order to transfer jurisdiction of the haul road to the county. The approved alternative postmining land use(s) is wildlife, grazing, recreation, and industrial (coal bed methane gas development).

IN REPLY REFER TO:

United States Department of the Interior

OFFICE OF SURFACE MINING
Reclamation and Enforcement
1999 Broadway, Suite 3320
Denver, Colorado 80202-5733

DOGM conducted the bond release inspection required at Utah Rule R645-301-880.210 on July 20, 1998. The decision document highlights the inspection findings and indicates that all required public notices and surface landowner notifications were made in a timely manner prior to the inspection. The OSM Denver Field Division (DFD) participated in the inspection noted above and inspection findings are documented in the OSM Mine-Site Evaluation Inspection Report dated July 23, 1998. The approved land use(s) noted above were evident during the inspection. The Forest Service, the Bureau of Land Management, and the Utah State Institutional Trust Lands Administration were notified of the inspection but did not participate. The decision document contains a list of inspection participants.

OSM understands that the approved alternative postmining land use is as stated above, and that the land use is being met. The permittee, PacifiCorp, has met the requirements of the approved Utah Coal Regulatory Program at R645-301-412 for postmining land use, and at R645-301-880 for bond release. Both the alternative postmining land use proposal and the bond release were advertised for public comment in the Emery County Progress as required. No adverse comments were received by DOGM. OSM understands 93.18 acres, representing the haul road and associated rights-of-way, will be included in the bond liability release and removed from the Des-Bee-Dove Mine permit area. No release of bond monies has been requested or approved.

Thank you and your staff for coordinating this Federal lands bond release with the DFD. Please address any questions concerning this letter to Henry Austin, Reclamation Specialist, at (303) 844-1466.

Sincerely,

James F Fulton

James F. Fulton, Chief
Denver Field Division

cc: PacifiCorp
Emery County
U.S.F.S.
B.L.M.

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

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

Michael O. Leavitt
Governor

Lowell P. Braxton
Division Director

WESTERN SUPPORT CENTER
98 AUG 25 AM 11: 18
OSMRE-WSC

August 24, 1998

James Fulton, Chief
Office of Surface Mining
Reclamation and Enforcement
1999 Broadway, Suite 3320
Denver, Colorado 80202

Re: Decision Document for Des-Bee-Dove Bond Release - Concurrence Requested, PacifiCorp, Des-Bee-Dove Mine, ACT/015/017-98BR, Folder #3, Emery County, Utah

Dear Mr. Fulton:

Enclosed please find the Decision Document for the bond release for the Des-Bee-Dove haul road. This bond release represents 93.18 acres that will be removed from the Des-Bee-Dove Mine permit area due to the achievement of the alternative postmining land use of that road. There is no change in the bond amount due to this final bond release.

OSM concurrence is requested on the Division recommendation for bond release. If you have any questions, please call me.

Sincerely,

Pamela Grubaugh-Littig
Permit Supervisor

tam
Enclosure
cc: Chuck Semborski, PacifiCorp
O:\015017.DBD\FINAL\OSMDDLTR.WPD

DECISION DOCUMENT

DES-BEE-DOVE HAUL ROAD
(AKA DES-BEE-DOVE/WILBERG JUNCTION ROAD)
ALTERNATIVE POSTMINING LAND USE
FINAL BOND RELEASE
DES-BEE-DOVE MINE
ACT/015/017-98BR

BACKGROUND

The Des-Bee-Dove haul road was constructed in 1983, in response to public concern for safety in the previous route that went through the residential streets of Orangeville, Utah. Utah Power and Light Company (now PacifiCorp) represented the road as a public road and did not obtain a permit from the regulatory authority to construct the haul road. The Division of Oil, Gas, and Mining ("Division") issued a notice of violation to Utah Power and Light Company on July 18, 1984 that required this haul road be included in the PAP for a permanent program permit.

On July 31, 1984, the Division issued a cessation order preventing Utah Power and Light Company from using this road. This cessation order was terminated on October 1, 1984. The Utah Board of Oil, Gas, and Mining reopened the haul road under an emergency order pursuant to the approved Utah State Program, to allow Utah Power and Light Company to resume production and delivery of coal to the Hunter Power Plant without routing trucks through the town of Orangeville.

CHRONOLOGY AND SUMMARY

Temporary Cessation/Notice to Reclaim

This haul road was included in the Des-Bee-Dove Mine permit issued by the Division on August 28, 1985. The Des-Bee-Dove Mine went into temporary cessation on February 6, 1987. By letter, dated February 26, 1997, PacifiCorp submitted to the Division a Notice of Intent to reclaim the Des-Bee-Dove Mine, including the portion of the haul road within the permit area.

Violation Issued/Third Party Interference

On February 27, 1997, the Division issued violation N97-41-3-1- to PacifiCorp at the Des-Bee-Dove Mine for "failure to have adequate drainage control .....failure to maintain a road to control or prevent additional contributions of suspended solids to streamflow or runoff outside the permit area", which was associated with construction of a coalbed methane pipeline by Texaco in the drainage ditch of the Des-Bee-Dove Haul Road. On April 4, 1997, Energy West Mining Company ("Energy West") (operator of the Des-Bee-Dove Mine) received a letter from Rex Funk, Road Supervisor for Emery County that stated there may be a public interest in the Des-Bee-Dove Haul Road.

Division Order Issued

Violation N97-41-3-1 was vacated on June 10, 1997, and an Order issued that stated: "Within 60 days of receipt of this Order, the permittee shall submit plans to the Division that discuss the disposition of the roadside ditch containing the pipeline that is subject of the NOV upon reclamation of the Des-Bee-Dove haul road." On June 18, 1997, Energy West submitted a letter to the Emery County Commission concerning the assumption of the Des-Bee-Dove Haul road. On July 29, 1997, Energy West requested and received Division approval for a 90-day extension to resolve the disposition of the Des-Bee-Dove Haul Road until October 29, 1997.

Process of Converyance of Haul Road to County Road System

A Public Notice was published by Emery County in the Emery County Progress on September 2 and September 9, 1997, which stated: "The purpose of the Public Hearing, is to receive public comment on whether the Emery County Commission should accept and add the following road (i.e. the Des-Bee-Dove Haul Road) to the County Road System in order to provide access." On September 17, 1997, the Emery County Board of County Commissioners held this public hearing. As a result of this public hearing, Commissioner Bevan Wilson made a motion to pursue negotiations with Energy West to work on a plan to bring the road to an agreeable standard and to coordinate with the county attorney to prepare the documents to transfer the haul road to the county system.

On October 23, 1997, Energy West and Emery County met to discuss the disposition of the Des-Bee-Dove road. As a result of the meeting a draft agreement was prepared incorporating the following provisions:

* After the road has been conveyed to Emery County, it will have sole responsibility for maintenance of the road.
* While the Des-Bee-Dove haul road was designed by the Utah Department of Transportation and constructed in 1983 to meet UDOT specifications which are similar to, or exceed the standards for the county road system, additional action will be taken by Emery County at the expense of PacifiCorp, to insure that the road meets all construction standards applicable to other public roads in the State of Utah of this classification.
* Current and past uses of the Des-Bee-Dove road will be acknowledged which include diverse public uses such as: industrial/commercial (coalbed methane exploration and development work conducted by Texaco Corporation), recreation (hunting and wildlife viewing), and grazing (access to separate grazing allotments).

Division Order/Midterm (Postmining Land Use Change)

A meeting was held at the Division on October 30, 1997, with PacifiCorp about this issue. A draft amendment was submitted on November 5, 1997 and an extension was granted until December 2, 1997 to submit an amendment to formally address this issue which was done, but was still identified as "draft". The Division responded by letter dated December 16, 1997 about the postmining land use deficiencies. On December 30, 1997, PacifiCorp requested an additional 90 days to resolve this issue due to the land transfer process with Rights of Way with State Institutional Trust Lands Administration (SITLA), Bureau of Land Management (BLM), and the Manti LaSal National Forest as well as finalizing the transfer with Emery County.

On February 27, 1998, the midterm review was sent to PacifiCorp for the Des-Bee-Dove Mine, which included resolution of the Division Order associated with this haul road. On March 18, 1998, the Emery County Commissioners approved of the transaction and signed the land transfer agreement. On March 23, 1998, PacifiCorp requested 30 more days to submit the land use changes to meet the requirements of the Division Order, which was granted until April 30, 1998.

Transfer of Rights of Way

The Forest Service (letter dated April 15, 1998), Bureau of Land Management (letter dated March 26, 1998), and State Institutional Trust Lands Administration (letter dated March 24, 1998) all concurred with the postmining land use change, i.e. transfer of use from PacifiCorp to Emery County, contingent upon the Division approval of the removal of this haul road from the Des-Bee-Dove Mine permit area.

Bond Release

PacifiCorp submitted the postmining land use changes for the haul road which would remove the haul road from the permit area on April 30, 1998. The Division decided that this "removal from the permit area" would be considered a "final bond release" for this area and notified PacifiCorp on May 5, 1998.

Vegetation Test Plots/Erosion Study Along Haul Road

Evidence of erosion on the outslope of the mine haul road had been in existence since 1987 (see Decision by Administrative Law Judge, Harvey Sweitzer dated February 28, 1995 for federal violation No.93-020-190-05). Between August and November 1991, PacifiCorp implemented a sedimentation control plan which effectively prevented most of the road runoff

from flowing onto the road outslope. Concurrently, PacifiCorp and the Division organized a task force to determine what other measures might be taken to control or prevent erosion on the road outslope. Members of the task fork included representatives of the Division, United States Natural Resource Conservation Service (USNRCS - formerly SCS), Utah State University Extension Service, PacifiCorp and its subsidiary, Energy West Mining Company. Office of Surface Mining (OSM) was invited to take part in the task force, but OSM did not participate.

The task force met on November 12, 1991, and concluded that the outslope rills and gullies are caused by water erosion and that the erosion control measures implemented by PacifiCorp should curtail and/or control this erosion. The task force also concluded that further erosional control and rehabilitation measures should be deferred pending completion of a study to evaluation erosion control measures and reclamation alternatives. Pursuant to the task force's recommendation, PacifiCorp in 1992 with Division oversight, launched a three-year study to evaluate various erosion control methods.

The reasoning behind the task force's conclusions were that the road outslope is composed of Mancos shale and is very steep. By all accounts, Mancos shale is highly susceptible to erosion. Nevertheless, the outslope was considered stable, showing no evidence of tension cracks or mass movement and having naturally settled since the road's construction in 1983.

Implementation of additional erosion control or rehabilitation measures would require the use of heavy equipment and disturbance of the slope, loosening the soil surface and destabilizing the steep slope. The task force feared that if such measures failed, their implementation would only exacerbate the outslope erosion.

In addition to being extremely erosive, Mancos shale is very resistant to revegetation because of its high salt content and tendency to form a hard surface crust. In light of these conditions, it was unclear whether implementation of additional measures, such as mulching, netting, tackifiers, and revegetation would be effective.

Revegetation test plots were established near the haul road in 1992. The existing plan contains information about methods used, and the application has an executive summary with methods and results. Results presented include dominant species, total cover, and soil analyses.

The information provided in the summary together with the design information in the appendices will be valuable for future reclamation efforts at this and other mines.

The application includes changes to the reclamation plan. Primarily, tree and shrub seedlings are being deleted from both interim and final revegetation planting mixes, and shrubs would be established from seed. No methods for establishing trees are included in the plan, but

they are not needed. The proposed changes are acceptable.

The regulations do not specifically address revegetation of road cut and fill slopes. While the postmining land uses for the road are considered the same as for adjacent areas, revegetation requirements should not necessarily be the same. For example, wildlife management agencies intentionally seed less palatable species near roads to help reduce wildlife collisions with vehicles, and it is best not to have wildlife cover next to a road. Therefore, the traditional standards for density of woody species, cover, production, and diversity are not applicable.

The areas near the road are, for the most part, adequately vegetated or otherwise protected that there are no serious erosion problems. However, a few areas in the cuts and fills east of the sediment pond are not well vegetated and have had some erosion problems. In an attempt to control erosion, the applicant has diverted water away from the longer slopes adjacent to the road. The applicant has had an ongoing erosion monitoring program in this area. Recent results indicate rills and gullies are tending to become wider but that the depths are either stable or becoming shallower. This is a typical pattern for healing erosional features and indicates increasing stability.

Information provided in the proposal is considered adequate to meet the requirements of this section of the regulations. The conclusions of this task force and the results of the three-year study are included in the plan.

FINDINGS FOR ALTERNATIVE POSTMINING LAND USE

POSTMINING LAND USE

Regulatory Reference: R645-301-412

Analysis and Findings:

Together with the bond release, the applicant is proposing a change in the postmining land use from wildlife and grazing to wildlife, grazing, recreation, and industrial.

The application includes comment letters from the involved government agencies supporting retention of the road, and it gives justification for changing the postmining land use in accordance with the requirements of R645-301-413.300. The applicant has shown the uses proposed are higher or better uses as defined in R645-100. The road will be used for coalbed methane development in the area and for recreation purposes.

PacifiCorp has met all of the requirements of R645-301-413.300 through R645-301-414.300 (Alternative Postmining Land use), for this haul road. The current postmining land use for the area is grazing and wildlife. The alternative postmining land use has been expanded to recreation and industrial/commercial access. There is likelihood for achievement of the use of this road for recreation and access for industrial/commercial (coalbed methane) because these uses are already occurring.

These uses do not pose any actual or probable hazard to public safety, health, or threat of water diminution or pollution. These uses are practical and reasonable, consistent with applicable land-use policies or plans, are currently being implemented, and do not contribute to violation of federal, Utah, or local law.

Emery County has agreed to transfer this road to the Emery County Road system by agreement dated March 18, 1998, contingent upon removal of this road from jurisdiction by the Utah Coal Regulatory Program, i.e. through bond release.

The alternative postmining land use for this haul road was submitted to the Division as a significant revision to the plan. PacifiCorp published this significant alteration from the original permit for four consecutive weeks in the Emery County Progress (May 12, 19, 26 and June 2, 1998), and at the end of the comment period, no comments were received.

Information provided in the proposal is considered adequate to meet the requirements of this section of the regulations.

RECOMMENDATION

The applicant has provided required information to justify the postmining land use change and to delete the haul road from the permit area.

FINDINGS FOR BOND RELEASE

Bond Release

Regulatory Reference: R645-301-880 - 880.330

Administative

The application for final bond release for the Des-Bee-Dove haul road included removal of

this road from the Des-Bee-Dove Mine permit area (decrease the permit area by 93.18 acres) but no change in the reclamation bond amount.

The advertisement of the postmining land use and bond release for this haul road was published in the Emery County Progress on May 12, 19, 26, and June 2, 1998. The comment period ended and there were no adverse comments.

Letters were sent to the landowners by PacifiCorp advising them of this bond release action. Invitations to the bond release inspection were sent to Emery County Planning, OSM, Manti-LaSal FS, BLM - Price, BLM (State Office) and SITLA on July 6, 1998. The bond release inspection was conducted on July 20, 1998. In attendance were:

OSM:	Henry Austin
Division:	Paul Baker, Daron Haddock, Mary Ann Wright, Wayne Western, Bill Malencik, and Pamela Grubaugh-Littig
Emery County:	Ray Petersen (Emery County Road Department)
PacifiCorp:	Dennis Oakley, Chuck Semborski, Scott Child, Blake Webster, and John Kirkham

There were no problems identified about the transfer of this road to the county road system during the inspection. A midterm inspection at the Des-Bee-Dove mine site was also conducted with no problems identified.

The Forest Service (letter dated April 15, 1998), Bureau of Land Management (letter dated March 26, 1998), and State Institutional Trust Lands Administration (letter dated March 24, 1998) all concurred with the postmining land use change from grazing and wildlife to the expanded grazing and wildlife and recreation and industrial/commercial access as well as the transfer of use from PacifiCorp to Emery County. All of these concurrences are contingent upon the Division approval of the removal of this haul road from the Des-Bee-Dove Mine permit area. The concurrence for the change in postmining land use gave concurrence to remove from the permit area because there was no longer any mining use for this road and therefore, no longer required for the permit area for the Des-Bee-Dove Mine.

PacifiCorp has met the requirements of the Act, the R645 rules, and the permit. The alternative postmining land use has been met and therefore, final bond release for the Des-Bee-Dove Haul Road should be granted.

CONCLUSIONS AND RECOMMENDATION

Based on the Division findings PacifiCorp has met the requirements for approval of the

alternative postmining land use for the Des-Bee-Dove Haul Road. It is recommended that this final bond release be approved which removes 93.18 acres from the Des-Bee-Dove Mine permit area. There is no change in the bond amount.

O:\015017.DBD\BOND\BONRELEA.WPD

APPENDIX D

Mine Maps

as required under R645-301-525.270.

CONTENTS

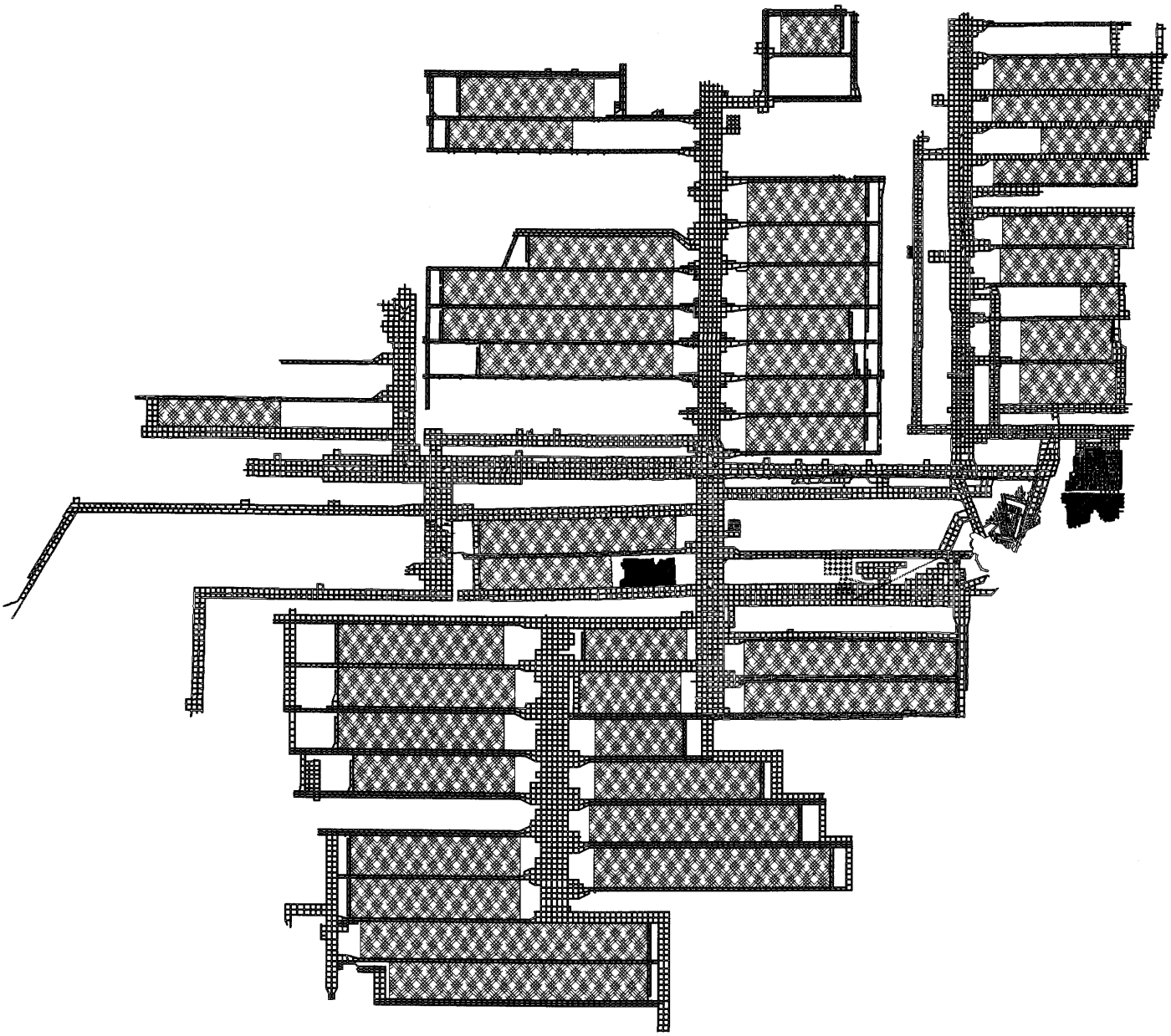
1998 Cottonwood Mine Production Map (No Production)

1998 Deer Creek Production Map

1998 Trail Mountain Production Map

1998 Beehive and Little Dove Mines Map (No Production)

1998 Deseret Mine Map (No Production)



MINING CEASED SEPTEMBER 1995
SEE 1997 PRODUCTION MAP

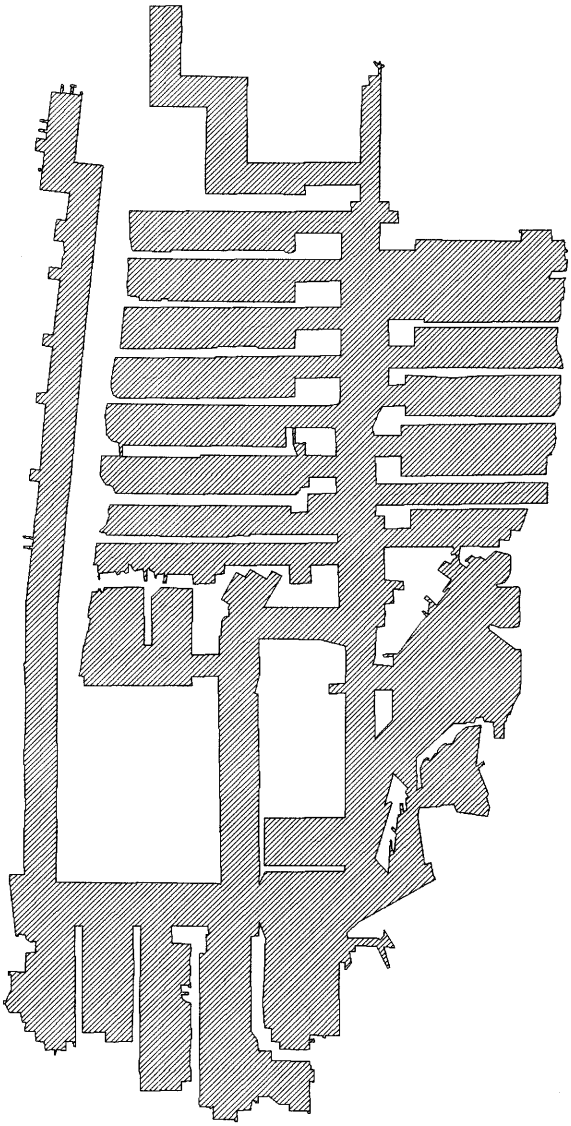
CAD FILE NAME/DISK#: USERS\KJL\VEGMAPS\CW.DWG

ENERGY WEST
MINING COMPANY
HUNTINGTON, UTAH 84528

COTTONWOOD MINE
1998 PRODUCTION MAP

DRAWN BY:	K. LARSEN		
SCALE:	1" = 1000'	DRAWING #:	....
DATE:	JANUARY 22, 1999	SHEET 1 OF 1	REV. ---

N



MINING CEASED FEBRUARY 1987
SEE 1997 PRODUCTION MAP

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

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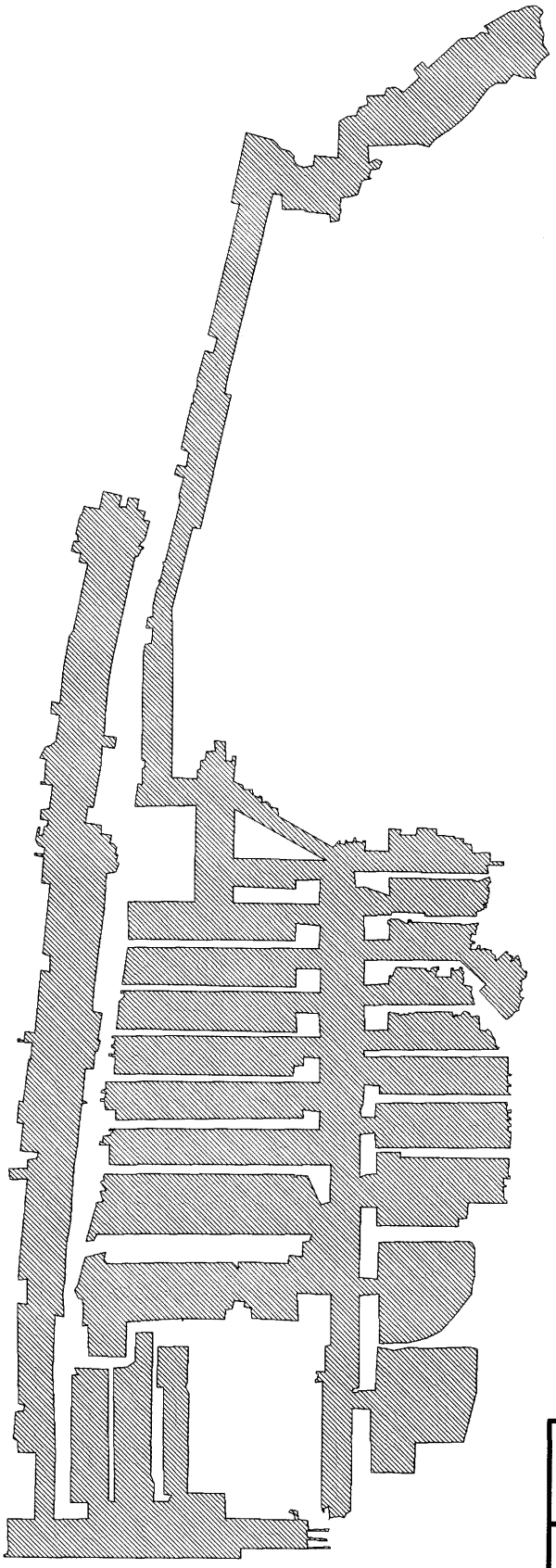
ENERGY WEST
MINING COMPANY
HUNTINGTON, UTAH 84528

DESERET MINE WORKINGS

DRAWN BY:	K. LARSEN	.....	
SCALE:	1" = 2000'	DRAWING #:	
DATE:	JANUARY 22, 1999	SHEET 1 OF 1	REV. ---



N

MINING CEASED FEBRUARY 1987
SEE 1997 PRODUCTION MAP

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

ENERGY WEST
MINING COMPANY
HUNTINGTON, UTAH 84528

BEEHIVE & LITTLE DOVE
MINE WORKINGS

DRAWN BY:	K. LARSEN		
SCALE:	1" = 2000'	DRAWING #:	
DATE:	JANUARY 22, 1999	SHEET 1 OF 1	REV.

APPENDIX E

Other Information

in accordance with the requirements of R645-301 and R645-302.

CONTENTS

Coal Mining Production 1998

UPDES Expiration Dates (All Mines)

Cottonwood/Wilberg North Sediment Pond Analysis Report

Deer Creek Waste Rock Site Analysis Report

Refuse, Roof, Floor and Mid-Seam Data Analysis Reports: Deer Creek Mine

Rock/Coal Ratio Analysis Report: Cottonwood Mine

Abandon Mining Equipment Support Information

Coal Mining Production
1998

ENERGY WEST MINING
PRODUCTION 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	21,352	15,851	14,478	13,256	35,059	1,128	8,733	1,187	7,122	1,158	7,935	88.1	68.5	77.8	67.9	52.8	60.0
1996																						
JAN	437,568	360,082	404,273	330,927	841,841	23030	18952	13041	16546	33674	1,157	10002	884	8273	1,006	9092	106.2	86.4	95.7	81.7	67.1	74.0
FEB	258,210	190,336	185,319	151,198	443,529	15189	14641	10901	12600	26090	1,191	6798	812	6574	1,030	6697	60.5	41.8	51.0	47.0	32.0	39.3
MAR	355,937	284,183	354,232	288,171	710,169	20937	16717	19680	16009	40581	1,139	8612	1032	8233	1,085	8417	87.3	87.9	87.6	66.8	66.2	66.5
APR	409,938	334,780	340,708	287,116	750,646	21576	17620	16224	14356	37532	1,122	9299	924	7975	1,030	8637	101.8	76.6	88.6	80.6	59.2	69.2
MAY	420,264	346,130	438,076	388,145	858,340	23348	19229	20861	18483	44017	1,141	10817	908	10214	1,034	10490	106.6	99.8	103.0	79.7	74.4	76.9
JUN	381,376	318,284	198,841	162,881	580,217	23836	19893	11047	11634	34130	1,034	10609	856	6515	962	8748	100.0	51.3	75.5	76.9	38.6	57.4
JUL	151,610	116,611	220,305	186,012	371,915	13783	14576	16947	15501	30993	1,029	7288	779	8087	888	7760	47.0	63.2	55.4	37.1	50.7	44.1
AUG	358,058	293,657	364,372	305,985	722,430	14919	12236	18219	16999	32838	1,110	7530	957	9000	1,032	8214	92.0	87.3	89.5	66.8	64.9	65.8
SEPT	367,185	303,976	347,386	278,340	714,571	21599	17881	18283	17396	39698	1,053	9499	1132	8979	1,093	9243	91.2	81.5	86.2	74.8	64.7	69.5
OCT	472,369	398,811	236,068	168,029	708,437	23618	19941	10264	12925	32951	1,008	10226	1173	7306	1,081	9143	107.8	43.5	72.2	81.9	34.2	55.9
NOV	343,720	281,538	345,036	266,011	688,756	19096	15641	15683	14778	34438	1,152	9385	1129	7824	1,139	8555	97.8	89.7	93.6	77.6	69.7	73.4
DEC	381,764	329,187	391,031	319,310	772,795	17353	14963	17001	15965	34346	1,095	10287	1025	9391	1,053	9826	101.9	90.5	95.8	77.8	71.0	74.2
96YTD	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

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

Cottonwood/Wilberg North Sediment Pond Analysis Report

Inter·Mountain
Laboratories, Inc.

1633 Terra Avenue
Sheridan, Wyoming 82801
Tel. (307) 672-8945
Fax (307) 672-6053

July 14, 1998

Mr. Richard Northrup
Energy West
P.O. Box 310
Huntington, Utah 84528

Dear Mr. Northrup:

Enclosed are the results for the soil analysis for the samples our laboratory received on June 26, 1998. The analyses were completed according to methods described in USDA Handbook 60 and the American Society of Agronomy monographs.

We have centralized our invoicing. All invoices are mailed separately from the report.

Feel free to contact me at your convenience if you have any questions or concerns.

Sincerely,

Joey Sheeley
Mining Soils

xc: File
Encl.

Inter-Mountain Laboratories, Inc.
1633 Terra Avenue
Sheridan, Wyoming 82801
Tel. (307) 672-8945

ENERGY WEST MINING COMPANY
HUNTINGTON, UTAH
MINE: COTTONWOOD

July 9, 1998

Lab No.	Location	Depths	pH	EC mmhos/cm @ 25°C	Saturation %	Calcium meq/l	Magnesium meq/l	Sodium meq/l	SAR	Sand %	Silt %	Clay %	Texture
155211	CTW1598		8.0	9.96	48.8	6.28	5.79	77.3	31.5	60.0	25.0	15.0	SANDY LOAM

Mis `laneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange ıcity, ESP= Exchangeable Sodium Percentage, Exch= Exchangeable, Avail= Av .ble

Inter-Mountain Laboratories, Inc.
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ENERGY WEST MINING COMPANY
HUNTINGTON, UTAH
MINE: COTTONWOOD

July 9, 1998

Lab No.	Location	Depths	Total Organic Carbon %	Total Sulfur %	T.S. AB t/1000t	Neut. Pot. t/1000t	T.S. ABP t/1000t	Sulfate Sulfur %	Pyritic Sulfur %	Organic Sulfur %	PyrS AB t/1000t	PyrS ABP t/1000t
155211	CTW1598		71.0	0.42	13.1	88.2	75.0					

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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1633 Terra Avenue
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ENERGY WEST MINING COMPANY
HUNTINGTON, UTAH
MINE: COTTONWOOD

July 9, 1998

Lab No.	Location	Depths	P ppm	Total Potassium ppm	Avail Na meq/100g	Exch Na meq/100g	Chloride PE meq/l	Total Boron ppm	Total Calcium ppm	Total Cadmium ppm	Total Copper ppm	Total Chromium ppm	Total Lead ppm	Total Molybdenum ppm	Total Nickel ppm
155211	CTW1598		1.08	2420.	6.18	2.41	1450.	70.5	30000.	0.99	17.8	16.3	13.8	2.47	10.9

Abbreviations for extractants: PE= Saturated Paste Extract, H2OSol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate
Mis laneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange icity, ESP= Exchangeable Sodium Percentage, Exch= Exchangeable, Avail= Av ble

Inter-Mountain Laboratories, Inc.
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ENERGY WEST MINING COMPANY
HUNTINGTON, UTAH
MINE: COTTONWOOD

July 9, 1998

Lab No.	Location	Depths	Total Cobalt ppm	Total Selenium ppm	Total Iron ppm	Total Magnesium ppm	Total Zinc ppm	Total Kjeldahl Nitrogen %	Total Sodium ppm
155211	CTW1598		1.48	1.55	6070.	5230.	32.7	1.23	3420.

Inter-Mountain Laboratories, Inc.

1633 Terra Avenue
Sheridan, WY 82801

Client: **Energy West Mining Co.**
Sample ID: CTW 1598
Lab ID: 0198W03191
Matrix: Soil
Condition: Intact

Date Received: 06/30/98
Date Reported: 07/14/98
Date Sampled: NG

Parameter	Analytical Result		Units
Benzene	0.12	L	ppb
Total Organic Halides (TOX)	46	L	ppm

L - Analyzed by a contract laboratory.

Reference: Test Methods for Evaluating Solid Waste, SW-846, U.S.E.P.A., Third Edition, Final Update II, 1994.

Reviewed By: _____
Joey Sheeley, Soils Lab Supervisor

ENERGY LABORATORIES
Billings • Casper • Gillette • Rapid City

ENE Y LABORATORIES, INC.
SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601
MAILING: P.O. BOX 3258 • CASPER, WY 82602
E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

EXTRACTABLE ORGANIC HALIDES (EOX)
EPA 9020B, MODIFIED

Client:	Inter-Mountain Laboratories	Date Sampled:	06/30/98
Project:	NONE	Time Sampled:	99:99
Sample ID:	CTW 1598	Date Received:	06/30/98
Laboratory ID:	C98 - 39304	Date Extracted:	07/01/98
Matrix:	Soil	Date Analyzed:	07/01/98
		Date Reported:	July 1, 1998

TOX CONCENTRATION

Replicate #1

Concentration	Reporting Limit	
45.6	5.0	ppm (µg Cl^-/g)

Replicate #2

Concentration	Reporting Limit	
47.1	5.0	ppm (µg Cl^-/g)

ND - Parameter not detected at stated detection limit

QUALITY CONTROL DATA

Precision Measurement
Laboratory Limit = 20% or 2*RL

Relative Percent Duplication: 1.6 %

Accuracy Measurement
Laboratory Limits: 80-120%

Matrix Spike Recovery: 99%

REFERENCES

Method 9020B: Total Organic Halides
Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990
Appendix D: Method for Extractable Organic Halides (EOX) in Solids
Cosa Instruments, Instruction Manual, TOX-10, August 1989

Report Approved By: R.A. Leadley

sec r:\reports\clients98\intermountain_labs\98_39304_9020BM.xls

Analyst: wd
Reviewed: sec

ENERGY LABORATORIES
Billings • Casper • Gillette • Rapid City

ENE[illegible]Y LABORATORIES, INC.
SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601
MAILING: P.O. BOX 3258 • CASPER, WY 82602
E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

EPA METHOD 8020
ANALYTICAL RESULTS

Client: Inter-Mountain Laboratories
Project: NONE
Matrix: Soil

Date Sampled: 06/30/98
Time Sampled: NST
Date Received: 06/30/98
Date Reported: July 7, 1998

ANALYTES CONCENTRATION

Laboratory ID	Sample ID	Benzene µg/g
C98 - 39304	CTW 1598	0.12

QUALITY ASSURANCE REPORT

Matrix Spike Analysis:

Laboratory ID	Sample ID	Benzene Recovery, %	Toluene Recovery, %	Ethylbenzene Recovery, %	Xylene(s) Recovery, %
C98 - 39304 S	39304 Spike	97.8%	104%	102%	100%
C98 - 39304 SD	39304 Spike Dup	95.1%	105%	102%	101%
	RPD %	*2.8%*	*0.4%*	*0.2%*	*0.5%*

Method Blank Analysis:

Laboratory ID	Sample ID	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylene(s) µg/L
MB0706	Methanol Blank	< 0.05	< 0.05	< 0.05	< 0.10

Surrogate Report:

Laboratory ID	Sample ID	Surrogate Recovery ααα - Trifluoro-toluene	Surrogate Recovery Acceptance range, %	Date Analyzed
C98 - 39304	CTW 1598	102	80 - 120 %	07/06/98
C98 - 39304 S	39304 Spike	101	80 - 120 %	07/06/98
C98 - 39304 SD	39304 Spike Dup	101	80 - 120 %	07/06/98
cc BTEX CK STD	0623CC	100	80 - 120 %	07/06/98
lc BTEX CK STD	0623LC	100	80 - 120 %	07/06/98
MB0706	Methanol Blank	94	80 - 120 %	07/06/98

Continuing Calibration and Second Source Checks

Laboratory ID	Benzene Recovery, %	Toluene Recovery, %	Ethyl-benzene Recovery, %	Xylene(s) Recovery, %	Date Analyzed
cc BTEX CK STD	98.0%	101%	101%	101%	07/06/98
lc BTEX CK STD	89.0%	94.0%	95.0%	94.5%	07/06/98
Acceptance range, %	**85 - 115 %**	**85 - 115 %**	**85 - 115 %**	**85 - 115 %**	

Report Approved By: R.A. Searling

sec r:\reports\clients98\intermountain_labs\98_39304_8020.xls

Analyst: jlp
Reviewed: sec

Deer Creek Waste Rock Site Analysis Report

Inter·Mountain
Laboratories, Inc.

1633 Terra Avenue
Sheridan, Wyoming 82801
Tel. (307) 672-8945
Fax (307) 672-6053

March 13, 1998

Mr. Richard Northrup
Energy West
P.O. Box 310
Huntington, Utah 84528

Dear Mr. Northrup:

Enclosed are the results for the soil analysis for the samples our laboratory received on March 5, 1998. The analyses were completed according to methods described in USDA Handbook 60 and the American Society of Agronomy monographs.

We have centralized our invoicing. All invoices are mailed separately from the report.

Feel free to contact me at your convenience if you have any questions or concerns.

Sincerely,

Joey Sheeley
Mining Soils

xc: File
Encl.

Inter-Mountain Laboratories, Inc.
1633 Terra Avenue
Sheridan, Wyoming 82801
Tel. (307) 672-8945

ENERGY WEST MINING COMPANY
HUNTINGTON, UTAH
MINE: DEER CREEK

March 13, 1998

Lab No.	Location	Depths	pH	EC mmhos/cm @ 25°C	Calcium meq/l	Magnesium meq/l	Sodium meq/l	SAR	Sand %	Silt %	Clay %	Texture	Boron ppm	Selenium ppm
150894	DC 0198		7.8	15.4	8.45	4.91	130.	50.3	87.0	6.0	7.0	LOAMY SAND	0.54	<0.02
150895	DC 0298		9.3	7.81	14.1	1.90	58.3	20.6	86.0	7.0	7.0	LOAMY SAND	0.62	<0.02
150896	DC 0398		8.7	11.7	15.9	3.27	92.0	29.7	84.0	9.0	7.0	LOAMY SAND	0.48	<0.02

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

Inter-Mountain Laboratories, Inc.
1633 Terra Avenue
Sheridan, Wyoming 82801
Tel. (307) 672-8945

ENERGY WEST MINING COMPANY
HUNTINGTON, UTAH
MINE: DEER CREEK

March 13, 1998

Lab No.	Location	Depths	Sand %	Silt %	Clay %	Texture
			**********	FINES	**********	
150894	DC 0198		59.0	29.0	12.0	SANDY LOAM
150895	DC 0298		53.0	34.0	13.0	SANDY LOAM
150896	DC 0398		56.0	31.0	13.0	SANDY LOAM

Inter-Mountain Laboratories, Inc.

1633 Terra Avenue
Sheridan, Wyoming 82801

Energy West
Munsell Color

Lab No.	Location	Color
150894	DC 0198	10YR 2/1 Black
150895	DC 0298	10YR 2/1 Black
150896	DC 0398	7.5YR 2.5/1 Black

ENERGY WEST MINING COMPANY
Mine: DEER CREEK
HUNTINGTON, UTAH

Location: DC 0198
Lab No.: 150894

Sieve Size	Weight	% Retained	% Passing
#60	74.7	74.7	25.3
#100	7.5	7.5	17.8
#140	3.7	3.7	14.0
#200	2.2	2.2	11.8
#230	7.5	7.5	4.3
PAN	4.3	4.3	

Location: DC 0298
Lab No.: 150895

Sieve Size	Weight	% Retained	% Passing
#60	83.1	83.1	16.9
#100	4.9	4.9	12.0
#140	2.2	2.2	9.8
#200	2.1	2.1	7.7
#230	1.6	1.6	6.1
PAN	6.1	6.1	

Location: DC 0398
Lab No.: 150896

Sieve Size	Weight	% Retained	% Passing
#60	78.6	78.6	21.4
#100	5.8	5.8	15.7
#140	3.2	3.2	12.4
#200	3.0	3.0	9.4
#230	1.7	1.7	7.7
PAN	7.7	7.7	

Refuse, Roof, Floor and Mid-Seam Data Analysis Report:

Deer Creek

Inter·Mountain
Laboratories, Inc.

1633 Terra Avenue
Sheridan, Wyoming 82801
Tel. (307) 672-8945
Fax (307) 672-6053

March 11, 1999

Mr. Richard Northrup
Energy West
P.O. Box 310
Huntington, Utah 84528

Dear Mr. Northrup:

Enclosed are the results for the soil analysis for the samples our laboratory received on February 26, 1999. The analyses were completed according to methods described in USDA Handbook 60 and the American Society of Agronomy monographs.

We have centralized our invoicing. All invoices are mailed separately from the report.

Feel free to contact me at your convenience if you have any questions or concerns.

Sincerely,

Joey Sheeley
Mining Soils

xc: File
Encl.

Inter-Mountain Laboratories, Inc.

1633 Terra Avenue
Sheridan, WY 82801

Energy West Mining Co.

Huntington, UT

Client Project ID: Overburden

Date Received: 02/23/99

Set #0199S01053

Report Date: 03/11/99

Lab Id	Sample Id	Depths (Feet)	pH s.u.	EC @ 25°C mmhos/cm	Saturation %	Calcium meq/L	Magnesium meq/L	Sodium meq/L	SAR
0199S01053	DC 0498	N/A	7.6	0.42	20.1	1.36	1.58	1.21	1.00
0199S01054	DC 0598	N/A	7.7	0.35	24.7	1.08	1.29	0.69	0.63
0199S01055	DC 0698	N/A	6.7	2.84	32.2	16.9	22.8	1.64	0.37
0199S01056	DC 0798	N/A	7.3	0.80	52.3	4.09	2.17	2.10	1.18
0199S01057	DC 0898	N/A	5.8	2.99	26.3	23.4	17.7	1.34	0.30
0199S01058	DC 0998	N/A	6.8	3.17	26.4	23.3	23.8	1.44	0.30
0199S01059	DC 1098	N/A	7.5	0.86	25.5	3.55	3.47	1.64	0.88

Reviewed By:

Joey Sheeley
Soils Lab Supervi

Inter-Mountain Laboratories, Inc.

1633 Terra Avenue
Sheridan, WY 82801

Energy West Mining Co.

Huntington, UT

Client Project ID: Overburden

Date Received: 02/23/99

Set #0199S01053

Report Date: 03/11/99

Lab Id	Sample Id	Depths (Feet)	Sand %	Silt %	Clay %	Texture	Coarse Fragments %	1/3 Bar Field Cap. %	15 Bar Wilt Pt. %
0199S01053	DC 0498	N/A	45.0	35.0	20.0	LOAM	2.2	9.6	2.5
0199S01054	DC 0598	N/A	83.0	8.0	9.0	LOAMY SAND	0.0	4.5	0.9
0199S01055	DC 0698	N/A	67.0	9.0	24.0	SANDY CLAY LOAM	22.2	12.5	5.8
0199S01056	DC 0798	N/A	91.0	4.0	5.0	SAND	0.0	6.5	5.3
0199S01057	DC 0898	N/A	81.0	10.0	9.0	LOAMY SAND	2.0	11.2	2.2
0199S01058	DC 0998	N/A	77.0	12.0	11.0	SANDY LOAM	0.0	12.5	2.8
0199S01059	DC 1098	N/A	84.0	7.0	9.0	LOAMY SAND	0.0	8.9	1.2

Reviewed By:

Joey Sheeley
Soils Lab Supervi

Inter-Mountain Laboratories, Inc.

1633 Terra Avenue
Sheridan, WY 82801

Energy West Mining Co.

Huntington, UT

Client Project ID: Overburden

Date Received: 02/23/99

Set #0199S01053

Report Date: 03/11/99

Lab Id	Sample Id	Depths (Feet)	Boron ppm	Nitrogen Nitrate ppm	Selenium ppm	TKN %	Available Sodium meq/100g	Exch. Sodium meq/100g
0199S01053	DC 0498	N/A	0.08	0.28	0.02	0.03	0.52	0.50
0199S01054	DC 0598	N/A	<0.05	0.22	<0.02	0.01	0.42	0.40
0199S01055	DC 0698	N/A	0.25	0.40	0.42	0.52	0.56	0.51
0199S01056	DC 0798	N/A	0.27	0.46	0.02	1.45	0.61	0.50
0199S01057	DC 0898	N/A	0.14	0.66	0.04	0.12	0.52	0.48
0199S01058	DC 0998	N/A	0.11	0.14	0.04	0.25	0.50	0.46
0199S01059	DC 1098	N/A	<0.05	0.10	<0.02	0.01	0.49	0.45

Reviewed By:

Joey Sheeley
Soils Lab Supervi

Inter-Mountain Laboratories, Inc.

1633 Terra Avenue
Sheridan, WY 82801

Energy West Mining Co.

Huntington, UT

Client Project ID: Overburden

Date Received: 02/23/99

Set #0199S01053

Report Date: 03/11/99

Lab Id	Sample Id	Depths (Feet)	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
0199S01053	DC 0498	N/A	3.3	0.01	0.31	8.77	8.46					
0199S01054	DC 0598	N/A	0.9	<0.01	0.00	171	171					
0199S01055	DC 0698	N/A	33.3	0.66	20.6	20.6	0.00					
0199S01056	DC 0798	N/A	93.4	0.40	12.5	15.6	3.11					
0199S01057	DC 0898	N/A	14.1	0.25	7.81	3.25	-4.56	0.03	0.14	0.08	4.37	-1.12
0199S01058	DC 0998	N/A	17.4	0.56	17.5	238	221					
0199S01059	DC 1098	N/A	1.0	0.01	0.31	154	154					

Reviewed By:

Joey Sheeley
Soils Lab Supervi

Inter-Mountain Laboratories, Inc.

1633 Terra Avenue
Sheridan, WY 82801

Energy West Mining Co.

Huntington, UT

Client Project ID: Overburden

Date Received: 02/23/99

Set #0199S01053

Report Date: 03/11/99

Lab Id	Sample Id	Depths (Feet)	pH s.u.	EC @ 25°C mmhos/cm	Saturation %	Calcium meq/L	Magnesium meq/L	Sodium meq/L	SAR
0199S01058	DC 0998	N/A	6.8	3.17	26.4	23.3	23.8	1.44	0.30
0199S01058D	DC 0998	N/A	6.8	3.26	25.7	23.4	24.0	1.41	0.29

Reviewed By:

Joey Sheeley
Soils Lab Supervi

Inter-Mountain Laboratories, Inc.

1633 Terra Avenue
Sheridan, WY 82801

Energy West Mining Co.

Huntington, UT

Client Project ID: Overburden

Date Received: 02/23/99

Set #0199S01053

Report Date: 03/11/99

Lab Id	Sample Id	Depths (Feet)	Sand %	Silt %	Clay %	Texture	Coarse Fragments %	1/3 Bar Field Cap. %	15 Bar Wilt Pt. %
0199S01058	DC 0998	N/A	77.0	12.0	11.0	SANDY LOAM	0.0	12.5	2.8
0199S01058D	DC 0998	N/A	78.0	11.0	11.0	SANDY LOAM	0.0	13.4	2.9

Reviewed By:

Joey Sheeley
Soils Lab Supervi

Inter-Mountain Laboratories, Inc.

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Sheridan, WY 82801

Energy West Mining Co.

Huntington, UT

Client Project ID: Overburden

Date Received: 02/23/99

Set #0199S01053

Report Date: 03/11/99

Lab Id	Sample Id	Depths (Feet)	Boron ppm	Nitrogen Nitrate ppm	Selenium ppm	TKN %	Available Sodium meq/100g	Exch. Sodium meq/100g
0199S01058	DC 0998	N/A	0.11	0.14	0.04	0.25	0.50	0.46
0199S01058D	DC 0998	N/A	0.10	0.14	0.04	0.24	0.50	0.46

Reviewed By:

Joey Sheeley
Soils Lab Supervi

Inter-Mountain Laboratories, Inc.

1633 Terra Avenue
Sheridan, WY 82801

Energy West Mining Co.

Huntington, UT

Client Project ID: Overburden

Date Received: 02/23/99

Set #0199S01053

Report Date: 03/11/99

Lab Id	Sample Id	Depths (Feet)	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
0199S01058	DC 0998	N/A	17.4	0.56	17.5	238	221					
0199S01058D	DC 0998	N/A	17.6	0.56	17.5	242	225					

Reviewed By:

Joey Sheeley
Soils Lab Supervi

Cottonwood Mine Coal/Rock Ratio Analysis Report

Cottonwood Mine

November 3, 1998
Annual Sampling
Sampled by Tom Lloyd, Don Shurtz
Sampled on October 29th, 1998

	Ash	Weight (lbs)	Weighted Ash % Rock
Fines	49.6	339.0	18.4
Coal	6.6	195.0	1.4
Rock	100.0	380.0	41.6
Total		914.0	61.4

Total Coal	38.6
Total Rock	61.4

Abandon Mining Equipment Support Information

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

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801
(801) 538-5340
(801) 359-3940 (Fax)

September 11, 1998

To: File

Thru: Joe Helfrich, Permit Supervisor, Compliance

From: Wm. J. Malencik, Reclamation Specialist

RE: Longwall Meeting, PacifiCorp, Trail Mountain Mine, ACT/015/009, Folder #2, Emery County, Utah; IE., Information Verbalized Over the Phone, 7:30 a.m. 9/11/98

Date of Meeting	September 10, 1998
Length of Meeting	8 Hours (9:00a.m.-5:00p.m.)
Who Requested Meeting:	PacifiCorp through BLM
Where Meeting Held:	Trail Mountain Mine Site and USFS Office
People Present:	PacifiCorp: Larry LaFrentz, Earl Snow, Karl Polastro BLM: Stan Perks, Barry Grossley USFS: Carter Reed DOGM: Bill Malencik
Goal of Meeting:	Determine disposition of longwall in light of September 9, 1998 final 125 foot cave-in.
Conclusion of Meeting:	No decision made on disposition of the longwall (see Follow-up).

PacifiCorp would provide additional documentation to BLM on the following:

(1) Longwall components that would remain and what would be removed.
(2) Fluid specifications.
(3) Photos.
(4) Letter from MSHA regarding hazard/safety.
(5) Letter from MTA concerning prior salvage discussion.

CS

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

October 19, 1998

Mr. Richard Manus
District Area Manager
Bureau of Land Management
Moab District, Price River Resource Area
900 North 700 East
Price, Utah 84501

Subject: **TRAIL MOUNTAIN 10TH RIGHT LONGWALL SYSTEM; TRAIL MOUNTAIN MINE; FEDERAL LEASE UTU-64375**

re: **INFORMATION REQUEST CONCERNING THE FOLLOWING:**

- **GENERAL INFORMATION PACKET WITH CHRONOLOGY OF EVENTS**
- **MSHA INSPECTOR ACTIVITY LOG - SEPTEMBER 9, 1998**
- **UMWA SAFETY COMMITTEE LETTER - SEPTEMBER 9, 1998**
- **PROPOSED EQUIPMENT AND MATERIAL RECOVERY/ABANDONMENT LISTING.**
- **OVERVIEW OF REMAINING MINING FLUIDS WITH MSDS INFORMATION.**
- **10TH RIGHT FOREMAN REPORTS FROM 08/31/98 THROUGH 09/08/98.**
- **LETTER FROM MTA CONCERNING EQUIPMENT SALVAGE DISCUSSIONS [LW ROOF SUPPORTS]**
- **PHOTOGRAPHS - 10TH RIGHT LW FACE CAVE AREA**

Mr. Manus,

PacifiCorp, by and through its wholly-owned subsidiaries, Interwest Mining Company ("Interwest") as managing agent and Energy West Mining Company ("Energy West") as mine operator hereby submits the above referenced detailed information concerning the Trail Mountain 10th Right longwall system and the approved abandonment of equipment at cross-cut #34 due to unsafe mining and geologic conditions on the longwall face.

On September 9, 1998 Energy West management withdrew the workforce from the 10th Right longwall face due to unsafe mining and geologic conditions. The unsafe conditions were present from approximately shield #97, toward the tailgate, to shield #122. The face was located just "outby" cross-cut #34, approximately 190 feet west of the planned final extraction location at cross-cut #32.

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

On this same date (09/09/98), Energy West held a conference call with your Price River Office [Pollastro/LaFrentz - EW; Grosley/Faulk/ Rassmussen/Tetrault - BLM] concerning the present status and existing face conditions of the Trail Mountain 10th Right longwall system. That afternoon, the local MSHA District Office conducted a site visit/ inspection of the 10th Right longwall face with company and union representatives [SEE MSHA INSPECTOR ACTIVITY LOG - SEPT. 9, 1998].

On September 10, 1998, a site visit was conducted by Energy West and applicable governmental agencies to evaluate conditions within the 10th Right section [Pollastro/ LaFrentz/ Snow - EW; Grosley/Perks - BLM; Reed - USFS; Malencik - DOGM]. This visit included a detailed discussion/explanation of existing geologic and operational conditions present on the 10th Right longwall face; a review of the chronology of events from September 4, 1998 through September 10, 1998; and, a underground site inspection of the 10th Right longwall face [from the headgate @ XC-34, to shield #97; and from the tailgate, to shield #122]. It was observed that the face had broken out approximately 15 ft. in front of the retreating shield tips within the referenced 25 shield area and a cave had been initiated approximately 10 ft. above the immediate shield horizon. Caved debris covered the panline and walkway area of the shields throughout this area. The LW face conveyor was unable to start due to the amount of caved material on the conveyor. Loose material was observed falling from the caved area onto the panline below. Course sandstone blocks were observed resting in the shield operator's walkway.

Due to the present conditions, Energy West requested approval from the governmental agencies present to cease longwall mining activity and begin recovery of the 10th Right section equipment as soon as possible. A list of all section equipment and material with proposed disposition is attached [SEE ENCLOSURE #4].

On September 11, 1998 (AM), Mr. Rassmussen and Mr. Grosley [from your Price River BLM Office called Energy West (LaFrentz) with verbal approval to recover as much of the 10th Right equipment and material as was safely possible, and approved the abandonment of the remaining equipment and material due to safety concerns.

Mr. Rassmussen said that due to the obvious safety concerns involved with continued operation of the 10th Right longwall, the government agencies all concur that abandonment is the only choice available. Mr. Rassmussen said that an environmental audit would be required of the area prior to final sealing operations. Mr. Rassmussen/Mr. Grosley also requested a listing of equipment for recovery/abandonment, an evaluation of all fluids and lubricants to be left with MSDS information and a copy of the mine foreman reports for the 10th Right section from Aug. 31, 1998 through Sept. 8, 1998 (See Attachments). Additional information was requested at the September 10, 1998 site inspection close-out and is included as attachments with this letter [SEE ENCLOSURES].

PacifiCorp/ Energy West appreciates the efforts of your staff and the other agencies involved in arriving at such a timely decision regarding this matter. It is unfortunate that such unforseen conditions and events curtailed the 10th Right panel short of it's projected extraction point and that equipment had to be left in place. It is important that every effort be made to maximize resource recovery, but not to the point that mine personnel safety is diminished or jeopardized.

If you have any questions or require additional information, please contact Larry LaFrentz [Energy West] at (435) 687-4726.

Sincerely,

for: Steven E. Kochevar, P.E.
Mine Planning Administrator

EIGHT (8) Enclosures:

. #1 Enclosure - GENERAL INFORMATION PACKET WITH CHRONOLOGY OF EVENTS.

. #2 Enclosure - MSHA INSPECTOR ACTIVITY LOG - SEPT. 9, 1998

. #3 Enclosure - UMWA SAFETY COMMITTEE LETTER - SEPT. 9, 1998

. #4 Enclosure - PROPOSED EQUIPMENT AND MATERIAL RECOVERY/ ABANDONMENT LISTING.

. #5 Enclosure - OVERVIEW OF REMAINING MINING FLUIDS WITH MSDS INFORMATION.

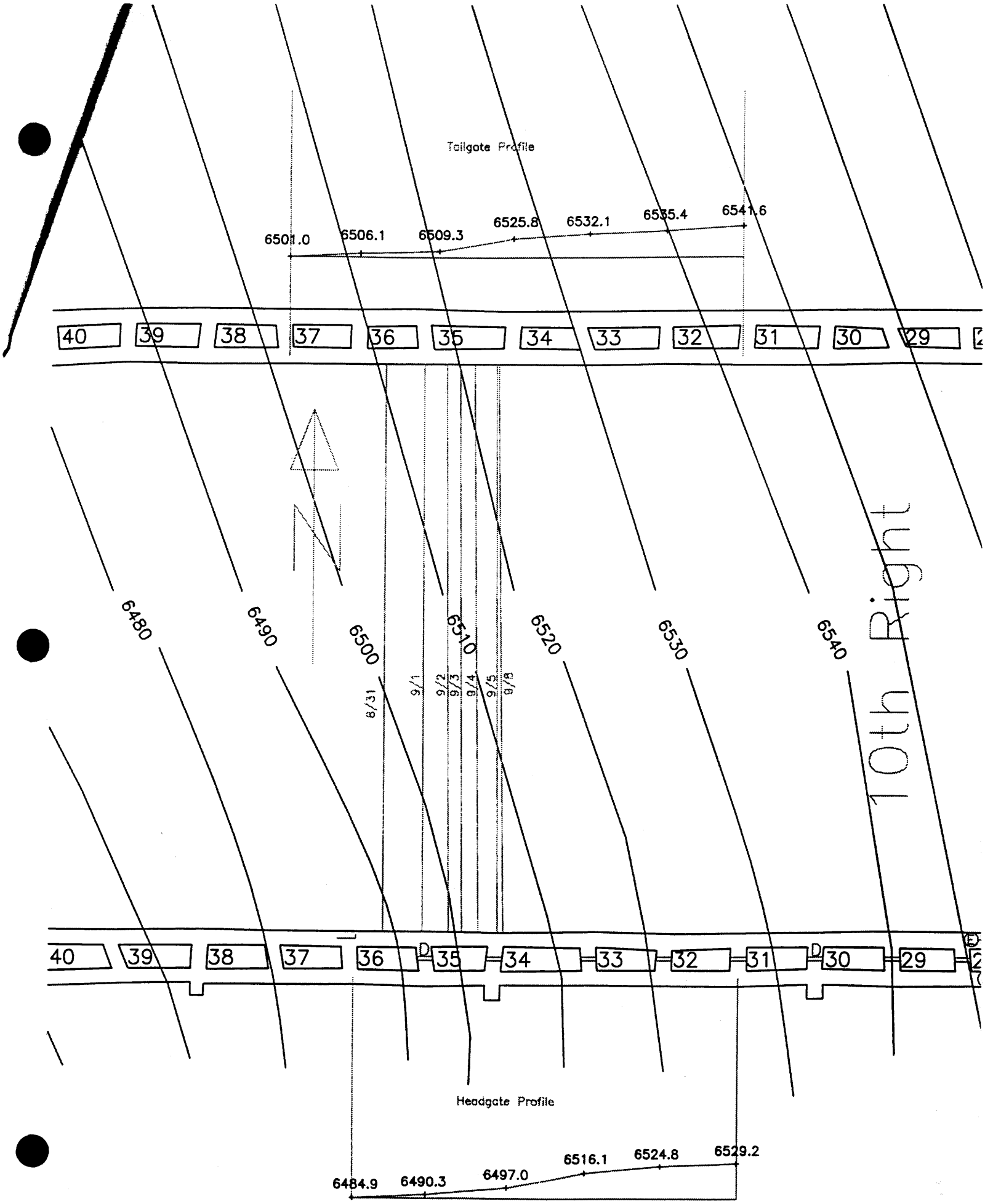
. #6 Enclosure - 10TH RIGHT FOREMAN REPORTS FROM 08/31/98 THROUGH 09/08/98.

. #7 Enclosure - LETTER FROM MTA CONCERNING EQUIPMENT SALVAGE DISCUSSIONS [LW ROOF SUPPORTS].

. #8 Enclosure - PHOTOGRAPHS - 10TH RIGHT LW FACE CAVE AREA

cc w/ enclosures:

Doug Koza, BLM (SLC)
Kate Kitchell, BLM (Moab)
Bill Malencik, DOGM (Price)
Carter Reed, USFS (Price)
Dan Baker, Interwest
Steve Kochevar, Interwest
Dave Lauriski, EWMC
Scott Child, Interwest
Carl Pollastro, EWMC
Earl Snow, EWMC
Donnie Durrant, EWMC
Ray Ferguson, EWMC
Tom Lloyd, EWMC
Chuck Semborski, EWMC
L.J. LaFrentz, EWMC


Tailgate Profile
6501.0
6506.1
6509.3
6525.8
6532.1
6535.4
6541.6
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38
37
36
35
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33
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31
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29
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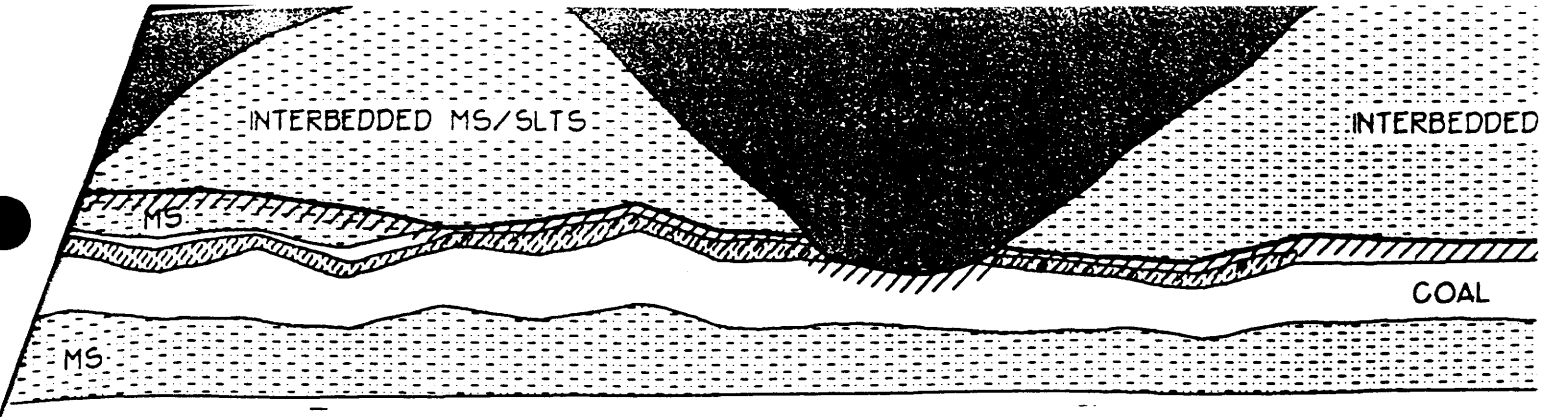
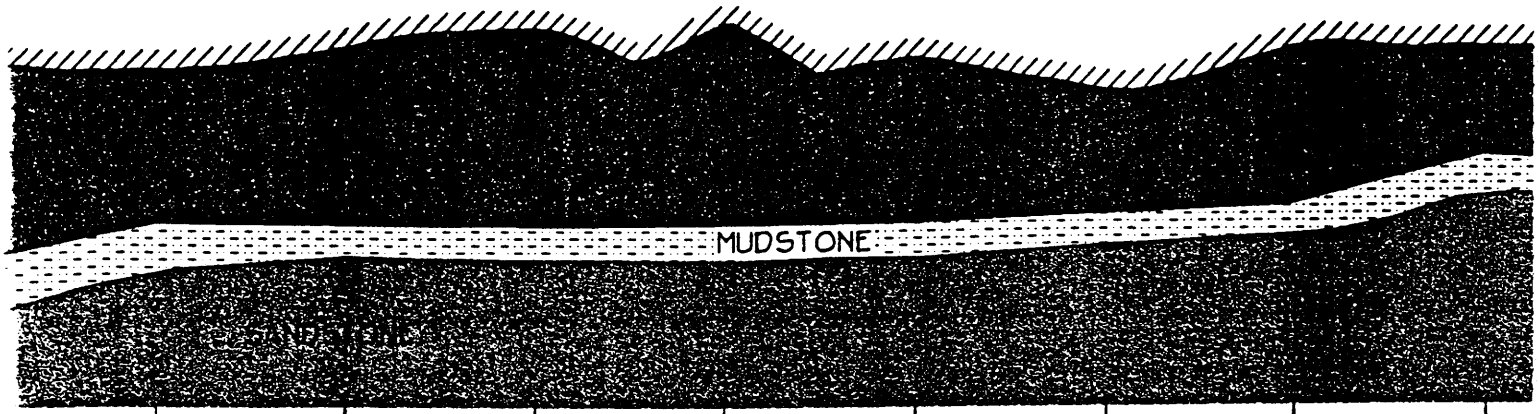
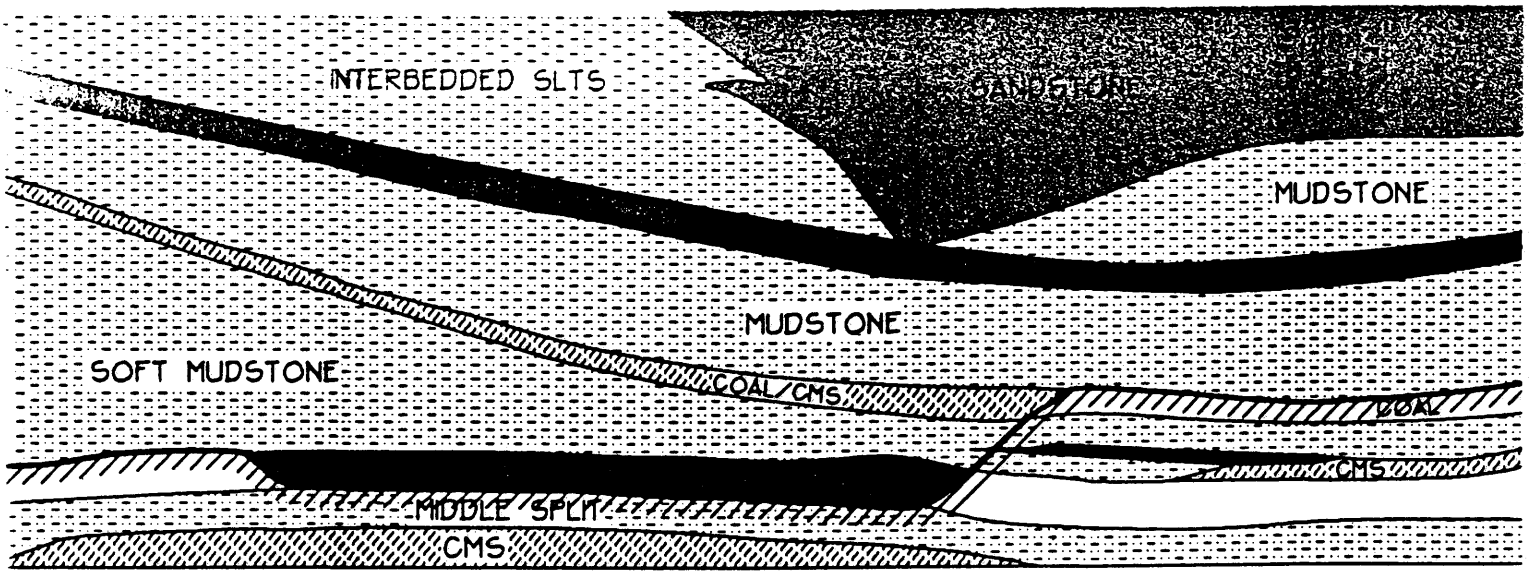
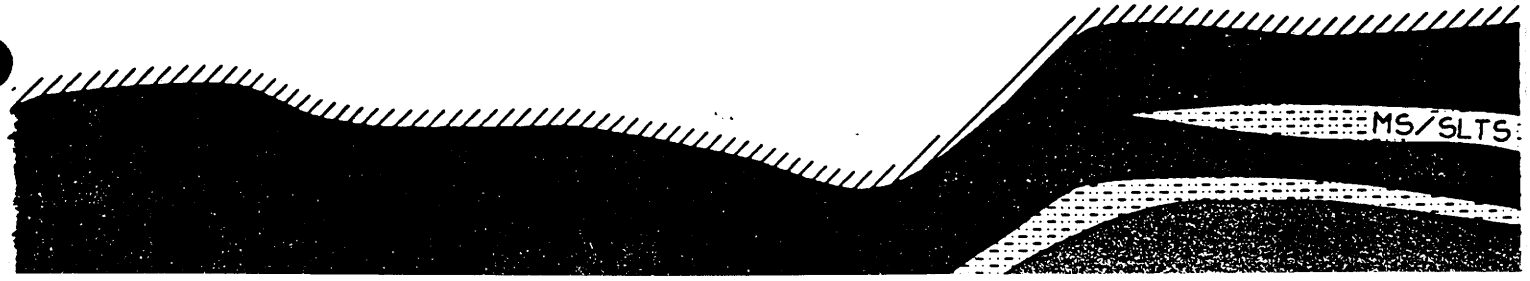
6480
6490
6500
6510
6520
6530
6540
8/31
9/1
9/2
9/3
9/4
9/5
9/8
10th Right
Headgate Profile
6484.9
6490.3
6497.0
6516.1
6524.8
6529.2



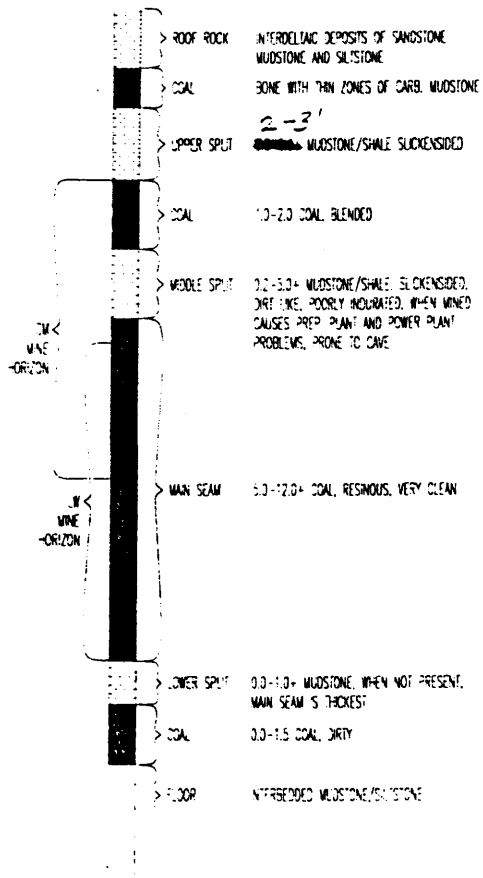


42	40	38	36	34	32	30	28
2.0	1.6	2.0	1.8	1.8	1.6	1.8	1.6
9.0		9.2		9.2		8.7	7.5
42.0	39.4	37.2	35.2	31.0	33.5	35.4	35.0





TYPICAL HIAWATHA SEAM COAL SECTION
SOUTHERN PART OF TRAIL MOUNTAIN MINE



The following are the events from August 31, 1998 to September 9th, 1998 in the 10th Right Longwall mining section of Trail Mountain Mine. These events lead up to the current face location and conditions described. They are taken from shift reports and the accounts of the section foremen.

Monday, August 31

Day: Normal production. 4,900 tons reported. 7 cuts to headgate and tailgate. Some chunks during the shift.

Afternoon: Normal production. 6,300 tons reported. 9 cuts to headgate and tailgate.

Tuesday, September 1

Day: Normal production. 5,950 tons reported. 8 cuts to headgate and 9 cuts to tailgate. Some chunks during shift.

Afternoon: Normal production. 7,350 tons reported. 11 cuts to headgate and 10 cuts to tailgate. Some chunks during shift.

Wednesday, September 2

Day: Normal production. 5,600 tons reported. 8 cuts estimated. Stage loader chain broken one side.

Afternoon: Normal production. 4,400 tons reported. Belt torn in half. Moved to 6th Right longwall.

Thursday, September 3

Day: Mined 6th Right longwall. Belt still down in 10th Right.

Afternoon: Tailgate started to climb hill. 4,900 tons reported. Timbered both sides of stage loader. Raised face conveyor and blocked gob side of pan from 110 to 140 shield. 7 cuts to headgate and tailgate.

Friday, September 4

Day: 3,150 tons reported. 4 cuts to headgate and 5 cuts to tailgate. Recutting tailgate due to chunks. Tailgate had rolls in floor, 20 to 30 feet long and half the height of face. Graded floor to maintain height.

Afternoon: 5,000 tons reported. 8:25 p.m. got first cave to sandstone, 3.5 hours face conveyor plugged due to chunks. More timber in stageloader area. Lost top from 105 to 115, buried shields.

Saturday, September 5

Graveyard: Clean face and unplugged face conveyor.

Day: Clean face and unplug face conveyor to 10:30 am. Broke face conveyor chain twice due to rock in the pan. Run shear, regraded floor until 5:30pm

Afternoon: Clean face and hang belt along face conveyor. Cleaned walkway and face.

Sunday, September 6

Idle

Monday, September 7

Idle

Tuesday, September 8

Graveyard: Face was buried from 97 to 122 and face conveyor was stalled. Worked remaining shift and in to day shift shoveling conveyor, and repairing broken conveyor chain.

Day Worked to get face conveyor, started clearing at 1:30 pm to 4:30 pm.

Afternoon Took two tapers on tailgate, regraded tail, top fell again at 8:30 pm with 3 to 4 feet of sandstone. Started cleaning, and trying to get face conveyor to run.

Wednesday, September 9

Graveyard: Worked on face conveyor and shoveled pan.

Day Continued cleaning until 11:00am when people were withdrwn off the face.

INSPECTOR ACTIVITY LOG

TRAIL MOUNTAIN MINE 42-01211

DATE	INSPECTOR(S)	COMPANY REP.	MINER REP
9/9/98	Jim Martin	John C. Lewis	Bill Sherman

INFORMATION	
AREA(S) TRAVELED	Went to 10th Right longwall and traveled to shield #96 where the face had caved up to 16 ft. in height. Travelled down the 9th right gateroad (10th Right tailgate). Observed the caved area from the other side. Noted that the area of concern extended from #96 to approximately #106. Inspected the 5th Left seals and traveled up the 5th Left Eastern return inspecting the 2nd East seals and 1st East seals.
EQUIPMENT CHECKED	
VIOLATIONS ISSUED (By Violation #)	None

COMMENTS: Inspector commented that he believed it would not be in the best interest of the company to continue mining with the longwall given the current circumstances. Inspector expressed his concern that there was a great probability for serious injury to longwall personnel. He indicated that there was no reason for MSHA to get involved at this time and that it was up to the company and other relevant governmental agencies to decide the proper course of action. However, in his opinion he the safest option is to leave the shields behind.

PARAMETERS CHECKED

Location	Velocity (fpm)	Methane(%)	Oxygen (%)	CO (ppm)
LW headgate	335	0.0	21.0	3

September 9, 1998

To All Parties, (Agencies or Individuals) Concerned

RE: Extraction of 10th Right Longwall
Trail Mountain Mine
Energy West Mining Company

Dear Sir(s):

The intent of this letter is to express the safety concerns that were encountered during my personal inspection of 10th right longwall on 9-9-98.

Energy West was attempting to mine this longwall to 32 x-cut in order to have the safest and most practical area for it's extraction. About 190 feet from x-cut 32 extremely adverse conditions have been encountered, the roof has caved above the shields approximately 5 to 7 feet for 10 shields. The company has been trying to advance this longwall in these conditions since 9-4-98, but due to the amount and massiveness of the rock falling it has only moved about 3 to 6 feet.

Due to the exposure of personnel to extremely hazardous conditions the company withdrew all persons from this face at approximately 10:30 a.m. on 9-9-98. After my inspection and findings of this area, it is my decision to support Mine Management and leave this longwall where it sits. I will not agree to allow any represented employee to jeopardize his safety in any attempts to advance this longwall any further. Equipment that can be removed safely should be removed but the safety of the employee takes precedence above all else.

I would like to stress the point that anything done in an attempt to remove the shields or panline will certainly place employees in harms way.

If there are any questions, please contact me.

Sincerely,

James Ceal
Safety Committee Chairman
UMWA Local 2176
United Mine Workers of America

10TH RIGHT LONGWALL SECTION EQUIPMENT LIST:

ITEM	STATUS
. LINE POWER 2500KVA TRANSFORMER	RECOVER(22-152)
. LINE POWER LW FACE ELECTRICS	RECOVER(22-173)
. SHARFF MONRAIL	RECOVER
. 48" CONVEYOR BELT	RECOVER
. 48" BELT STRUCTURE	RECOVER
. DOWTY-MECO MOBILE TAILPIECE	RECOVER(08-679)
. AMERICAN LW STAGELOADER	RECOVER(22-175)
. AMERICAN LW CRUSHER	RECOVER(22-174)
. SPENDRUP S/L DUST SCRUBBER	RECOVER
. VICTOR LIGHT FIXTURES	ABANDON(22-152)
. VICTOR POWER SUPPLIES	RECOVER
. COMTROL COMMUNICATIONS	RECOVER
. MONORAIL HYD. + H20 HOSE	RECOVER
. MONORAIL ELECTRICAL CABLE	RECOVER
. STAGELOADER CHAIN/FLIGHTS	RECOVER
. UNITECK FILTER STATION	RECOVER
. TEFFENBACH DUMP VALVE	RECOVER
. HG VALVES/FITTINGS	RECOVER
. EMULSION RETURN PUMP AND SURGE TANK	RECOVER(22-182)
. SECTION EMULSION PRESSURE AND RETURN PIPE	RECOVER
. SECTION H20 SUPPLY PIPE	RECOVER
. TG ROCKDUST PIPE	RECOVER
. WESTFALIA HEADGATE DRIVE FRAME + GRADIENT	RECOVER(22-086)
. HG 600 HP MOTOR	RECOVER
. HG VOITH 650 FLUID COUPLING	RECOVER
. HG JAHNEL JPL-25 GEARCASE	RECOVER
. HG LWA CHAIN TENSIONER	RECOVER
. AFC CHAIN/FLIGHTS	ABONDON
. JOY 4LS-5 SHEARER	RECOVER(22-178)
. JOY 4LS-5 CUTTING DRUMS + COWLS	RECOVER
. WESTFALIA TAILGATE DRIVE FRAME	ABANDON(22-123)
. TG 600 HP MOTOR	RECOVER
. TG VOITH 650 FLUID COUPLING	ABANDON
. TG JAHNAL KPL-25 GEARCASE	ABANDON
. TG LWA CHAIN TENSIONER	RECOVER
. WESTFALIA AFC PANLINE SECTIONS (144 EA.) CPL. W/ FACE AND GOB SIDE ACCESSORIES	ABANDON(22-147)
. HEMSHIEDT LW ROOF SUPPORTS (151 EA.) CLP. W/ CYLINDERS, VALVES, HOSES, FITTINGS	ABANDON(21-123)
. MISC. ELECTRIC/COMM. CABLE & HOSE [AFC CABLE TRAY; SHIELD TO SHIELD; ETC.	ABANDON
. MISC. SECTION EQUIPMENT/TOOLS AND SUPPLIES	RECOVER

FLUIDS:

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

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

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

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

PACIFICORP 07/27/95
MATERIAL SAFETY DATA SHEET

PRODUCT: POWERGEAR SERIES

MANUFACTURER:
CENTURY LUBRICATING OILS
MSDS: 12187

GENERAL INFORMATION

PRODUCT: POWERGEAR SERIES

MANUFACTURER: CENTURY LUBRICANTS CO.
2140 S. 88TH ST.
KANSAS CITY, KS 66111-8701

EMERGENCY - CHEMTREC: 800-424-9300

BUSINESS: 800-800-6457

REVISION DATE: December 15, 1988 (AD HPC 9) 3612XX

A MEMBER OF THE FUCHS GROUP

UNK Means Unknown EST Means Estimated N.A. Means Not Applicable

HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	TLV, TWA, PEL	IARC, NTP, OSHA
Mineral Oil	TLV 5mg/M (Mist)	Not listed
Extreme pressure additive	No TLV established	Not listed

PHYSICAL DATA

SOLUBILITY IN WATER (@ 20 C) : NEGLIGIBLE

VAPOR DENSITY (AIR) : >1.0
STRONG ACID: NO
STRONG BASE: NO

SPECIFIC GRAVITY (WATER=1) : <1.0

VAPOR PRESSURE (MM HG @ 20 C): <0.1

EVAPORATION RATE (ETHER = 1) : <0.01

PERCENT VOLATILE (BY WEIGHT) : ZERO

BOILING POINT (DEG F) : +600 F

MELTING POINT (DEG F) : N.A.

APPEARANCE AND ODOR : AMBER LIQUID, MILD PETROLEUM ODOR

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD): 450 F COC EST

FLAMMABILITY LIMITS: LEL - UNK UEL - UNK

EXTINGUISHING AGENTS: DRY CHEMICAL CO2 FOAM

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

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

HEALTH HAZARD DATA & FIRST AID

PERMISSIBLE CONCENTRATIONS (AIR): NONE ESTABLISHED

ROUTE	EFFECT OF OVEREXPOSURE	EMERGENCY FIRST AID PROCEDURE
EYES	CAN CAUSE IRRITATION	FLUSH WITH WATER. SEE PHYSICIAN
SKIN	CAN CAUSE IRRITATION	WASH WITH SOAP & WATER. IF HIGH PRESSURE, GET IMMEDIATE MEDICAL ATTENTION.
INHALATION	MIST MAY CAUSE IRRITATION	REMOVE FROM CONTAMINATED AREA
INGESTION	NONE EXPECTED	

REACTIVITY DATA

STABILITY: STABLE

INCOMPATIBILITY: KEEP AWAY FROM STRONG OXIDIZERS

NOTE: HAZARDOUS POLYMERIZATION WILL NOT OCCUR

SPILL OR LEAK PROCEDURES

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

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

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

SPECIAL PROTECTION INFORMATION

PRESPIRATION PROTECTION: None normally needed.

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

SKIN PROTECTION: Chemically resistant gloves.

EYE PROTECTION: Goggles or faceshield.

OTHER PROTECTIVE MEASURES: None normally needed.

DISCLAIMER

The information contained herein is based on data considered accurate. However, no warranty, expressed or implied, is given regarding the accuracy of these data or the results to be obtained from the use thereof.

CENTURY LUBRICANTS CO. FUCHS

MATERIAL SAFETY DATA SHEET

MATERIAL SAFETY DATA SHEET

PRODUCT: SOLCENIC 3B EMULSION
MADE WITH DEIONIZED WATER

SECTION I

MANUFACTURER : CENTURY LUBRICATING OILS, INC.
ADDRESS : 2140 S. 88TH ST.
KANSAS CITY, KS 66111-8701
REVISION DATE: 1/25/93 HPC - 11 DOC:114

TELEPHONE : 800-255-4107
CHEM TREC : 800-424-9300

PREPARED BY : M.D. HART

SECTION II CHEMICAL AND PHYSICAL PROPERTIES

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

APPEARANCE AND ODOR : CLEAR LIQUID, BLAND ODOR

SECTION III REACTIVITY DATA

STABILITY : STABLE INCOMPATIBILITY : KEEP AWAY FROM STRONG OXIDIZERS

NOTE : HAZARDOUS POLYMERIZATION WILL NOT OCCUR

SECTION IV FIRE AND EXPLOSION DATA

FLASH POINT (METHOD) : N/A FLAMMABLE LIMITS-LEL: UNK UEL: UNK

EXTINGUISHING AGENTS : DRYCHEMICAL(X) CO2 (X) WATERSPRAY (X) FOAM (X)

SPECIAL FIRE FIGHTING: PROCEDURES : Avoid breathing vapors. Use breathing apparatus in confined areas. Cool exposed containers with waterspray

HAZARDOUS THERMAL DECOMPOSITION PRODUCT : Carbon monoxide, carbon dioxide and unidentified organic compounds.

SECTION V PRECAUTIONS FOR SAFE HANDLING AND USE

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

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

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

442395

SECTION VI HEALTH HAZARD DATA

PERMISSIBLE CONCENTRATIONS (AIR) : None established

ROUTE	EFFECT OF OVEREXPOSURE	EMERGENCY FIRST AID PROCEDURE
EYES	NONE EXPECTED	FLUSH WITH WATER. SEE PHYSICIAN
SKIN	PROLONGED OR REPEATED CONTACT MAY CAUSE MILD IRRITATION	WASH WITH SOAP AND WATER. IF HIG PRESSURE, GET IMMEDIATE MEDICAL ATTENTION.
INHALATION	MIST MAY CAUSE IRRITATION	REMOVE FROM CONTAMINATED AREA
INGESTION	NONE EXPECTED	

CHRONIC : NONE EXPECTED WITH NORMAL EXPOSURE

HAZARDOUS INGREDIENTS	TLV, TWA, PEL	IARC, NTP, OSHA
MINERAL OIL	TLV 5mg/M (MIST)	NOT LISTED
ORGANIC ACID SALT	NONE ESTABLISHED	NTP LISTED

SECTION VII CONTROL MEASURES

RESPIRATION PROTECTION : NONE NORMALLY NEEDED

VENTILATION TYPE : GENERAL ADEQUATE. USE LOCAL MECHANICAL TO INSURE TLV'S NOT SURPASSED WHERE APPLICABLE.

SKIN PROTECTION : CHEMICALLY RESISTANT DESIRABLE

EYE PROTECTION : GOGGLES OR FACESHIELD DESIRABLE

OTHER PROTECTIVE MEASURES : NONE NORMALLY NEEDED

SECTION VIII MISCELLANEOUS

UNK MEANS UNKNOWN
EST MEANS ESTIMATED
N.A. MEANS NOT APPLICABLE

The hazard evaluation of this Century product is based on a formulation using deionized water.

The information contained herein is based on data considered accurate. However, no warranty, expressed or implied, is given regarding the accuracy of these data or the results to be obtained from the use thereof.

CENTURY LUBRICANTS CO. FUCHS

MATERIAL SAFETY DATA SHEET

MATERIAL SAFETY DATA SHEET **PRODUCT: SOLCENIC 3B**

SECTION I

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

SECTION II CHEMICAL AND PHYSICAL PROPERTIES

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

APPEARANCE AND ODOR : AMBER LIQUID, MILD PETROLEUM ODOR

SECTION III REACTIVITY DATA

STABILITY : STABLE INCOMPATIBILITY : KEEP AWAY FROM STRONG OXIDIZERS

NOTE : HAZARDOUS POLYMERIZATION WILL NOT OCCUR

SECTION IV FIRE AND EXPLOSION DATA

FLASH POINT (METHOD) : N.A. FLAMMABLE LIMITS-LEL: UNK UEL: UNK

EXTINGUISHING AGENTS : DRYCHEMICAL(X) CO2 (X) WATERSPRAY ( ) FOAM (X)

SPECIAL FIRE FIGHTING: PROCEDURES : Avoid breathing vapors. Use breathing apparatus in confined areas. Cool exposed containers with waterspray

HAZARDOUS THERMAL DECOMPOSITION PRODUCT : Carbon monoxide, carbon dioxide, nitrogen oxide and unidentified organic compounds.

SECTION V PRECAUTIONS FOR SAFE HANDLING AND USE

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

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

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

442350

SECTION VI HEALTH HAZARD DATA

PERMISSIBLE CONCENTRATIONS (AIR) : None established for product

ROUTE	EFFECT OF OVEREXPOSURE	EMERGENCY FIRST AID PROCEDURE
EYES	MAY BE CORROSIVE	FLUSH WITH WATER. SEE PHYSICIAN
SKIN	MAY CAUSE IRRITATION AND ALLERGIC SENSITIZATION IN SOME INDIVIDUALS.	WASH WITH SOAP AND WATER. IF HIG PRESSURE HAS CAUSED PENETRATION BENEATH SKIN SEEK IMMEDIATE MEDICAL ATTENTION.
INHALATION	MISTS CAN CAUSE IRRITATION	
INGESTION	MAYBE HARNFUL OR FATAL IF SWALLOWED CAUSING TREMORS, DIZZINESS, VOMITING AND NAUSEA.	IF CONSCIOUS, GIVE 2 GLASSES OF MILK. DO NOT INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION.
CHRONIC	NONE EXPECTED WITH NORMAL EXPOSURE	

HAZARDOUS INGREDIENTS	TLV, TWA, PEL	IARC, NTP, OSHA
TRIAZINE COMPOUND	NONE ESTABLISHED	NOT LISTED
MINERAL OIL	TLV 5mg/M (MIST)	NOT LISTED
ORGANIC ACID SALT	NONE ESTABLISHED	NTP LISTED
ORGANIC AMIDE	NONE ESTABLISHED	NOT LISTED
ALKYL AMINES	TWA 3 ppm 8-Hr	NOT LISTED
FATTY ACID	NONE ESTABLISHED	NOT LISTED

SECTION VII CONTROL MEASURES

RESPIRATION PROTECTION : NONE NORMALLY NEEDED

VENTILATION TYPE : GENERAL ADEQUATE. USE LOCAL MECHANICAL TO INSURE TLV'S NOT SURPASSED WHERE APPLICABLE.

SKIN PROTECTION : CHEMICALLY RESISTANT GLOVES

EYE PROTECTION : GLASSES WITH SHIELD, GOGGLES OR FACESHIELD

OTHER PROTECTIVE MEASURES : WASH HANDS BEFORE EATING OR SMOKING

SECTION VIII MISCELLANEOUS

UNK MEANS UNKNOWN
EST MEANS ESTIMATED
N.A. MEANS NOT APPLICABLE

The information contained herein is based on data considered accurate. However, no warranty, expressed or implied, is given regarding the accuracy of these data or the results to be obtained from the use thereof.

conoco®

MSDS MATERIAL SAFETY DATA SHEET

GREP0298

Revised 25-JUN-1997 Printed 21-APR-1998

TACNA Rx RED MULTIPURPOSE GREASE, NO. 2

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

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

Tradenames and Synonyms
9440 - Conoco Base Code

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

PHONE NUMBERS

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

COMPOSITION/INFORMATION ON INGREDIENTS

 # Components

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

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

(Continued)

HAZARDS IDENTIFICATION

Potential Health Effects

#

Primary Route of Entry: Skin

The product, as with many petroleum products, may cause minor skin, eye, and lung irritation, but good hygienic practices can minimize these effects.

Carcinogenicity Information
None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

FIRST AID MEASURES

First Aid
INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

SKIN CONTACT

Wipe off excess with towel. Wash skin thoroughly with soap and water. If irritation develops and persists, consult a physician.

If injected under the skin, necrosis could occur. See physician.

EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

INGESTION

If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

Notes to Physicians
Activated charcoal mixture may be administered. To prepare activated charcoal mixture, suspend 50 grams activated charcoal in 400 mL water and mix thoroughly. Administer 5 mL/kg, or 350 mL for an average adult.

High velocity injection under the skin can cause a bloodless puncture wound and result in necrosis. Immediate attention by a surgical specialist is recommended.

(Continued)

FIRE FIGHTING MEASURES

Flammable Properties

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

Extinguishing Media

Water Spray, Foam, Dry Chemical, CO2.

Water spray may spread fire.

Fire Fighting Instructions

Cool tank/container with water spray.

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

ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)

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

Spill Clean Up

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

HANDLING AND STORAGE

Handling (Personnel)

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

Handling (Physical Aspects)

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

Storage

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

(Continued)

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls
Keep container tightly closed.

Normal ventilation.

Personal Protective Equipment
Respiratory Protection: None required except under unusual circumstances such as described under Fire Fighting Measures.

Protective Gloves: Should be worn when the potential exists for prolonged or repeated skin contact. NBR or neoprene recommended.

Eye/Face Protection: Safety glasses with side shields if splashing is probable.

Other Precautions: Avoid prolonged skin contact by practicing good personal hygiene and laundering contaminated clothing.

Exposure Guidelines
Exposure Limits
TACNA Rx RED MULTIPURPOSE GREASE, NO. 2

PEL	(OSHA)	None Established
TLV	(ACGIH)	None Established

PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Boiling Point	Not Applicable
Vapor Pressure	<0.01 mm Hg
Vapor Density	>1 (Air = 1)
Evaporation Rate	<1 (Butyl Acetate = 1)
Odor	Petroleum (mild).
Form	Semi-solid (Grease)
Color	Red
Specific Gravity	0.93 (Water=1.0)
Density	7.5 lb/gal

STABILITY AND REACTIVITY

Chemical Stability
Stable.

Conditions to Avoid
Heat, sparks, and flames.

Incompatibility with Other Materials
Incompatible with strong oxidizing materials, acids.

Decomposition
Normal combustion forms carbon dioxide; incomplete combustion may produce carbon monoxide.

Polymerization
Polymerization will not occur.

(Continued)

TOXICOLOGICAL INFORMATION

Animal Data

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

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

ECOLOGICAL INFORMATION

Ecotoxicological Information

No specific aquatic data available for this product.

DISPOSAL CONSIDERATIONS

Waste Disposal

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

Container Disposal

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

TRANSPORTATION INFORMATION

Shipping Information

DOT

Not regulated.

ICAO/IMO

Not restricted.

Shipping Information -- Canada

This material is Not Regulated.

REGULATORY INFORMATION

 # U.S. Federal Regulations

OSHA HAZARD DETERMINATION

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

CERCLA/SUPERFUND

(Continued)

REGULATORY INFORMATION(Continued)

Not applicable; this material is covered by the CERCLA petroleum exclusion.

SARA, TITLE III, 302/304
This material is not known to contain extremely hazardous substances.

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute : No
Chronic : No
Fire : No
Reactivity : No
Pressure : No

SARA, TITLE III, 313
This material contains the following chemical(s) at a level of 1.0% or greater (0.1% for carcinogens) on the list of Toxic Chemicals and is subject to toxic chemical release reporting requirements:

Toxic Chemical(s) Zinc Compound

TSCA
Material and/or components are listed in the TSCA Inventory of Chemical Substances (40 CFR 710).

RCRA
This material has been evaluated for RCRA characteristics and does not meet hazardous waste criteria if discarded in its purchased form. Because of product use, transformation, mixing, processing, etc., which may render the resulting material hazardous, it is the product user's responsibility to determine at the time of disposal whether the material meets RCRA hazardous waste criteria.

CLEAN WATER ACT
The material contains the following ingredient(s) which is considered hazardous if spilled into navigable waters and therefore reportable to the National Response Center (1-800-424-8802).

Ingredient(s)	Petroleum Hydrocarbons
Reportable Quantity	Film or sheen upon or discoloration of any water surface

State Regulations (U.S.)

CALIFORNIA "PROP 65"
The material contains ingredient(s) known to the State of California to cause cancer, birth defects, or other reproductive harm. Read and follow all label directions.

Ingredient	Arsenic	@ <0.01%
Ingredient	Cadmium	@ <0.01%
Ingredient	Ethyl acrylate	@ <0.01%

(Continued)

REGULATORY INFORMATION(Continued)

Ingredient	Lead	@ <0.01%

PENNSYLVANIA WORKER & COMMUNITY RIGHT TO KNOW ACT
This material may contain the following ingredient(s) subject to the Pennsylvania Worker and Community Right to Know Hazardous Substances List.

Ingredient	Zinc Compound
Category	Environmental Hazard

 # Canadian Regulations
This is not a WHMIS Controlled Product.

Transport/Medical Emergency Phone Number: 1-613-348-3616

OTHER INFORMATION

NFPA, NPCA-HMIS

NFPA Rating	
Health	0
Flammability	1
Reactivity	0
NPCA-HMIS Rating	
Health	1
Flammability	1
Reactivity	0

Personal Protection rating to be supplied by user depending on use conditions.

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS	: MSDS Coordinator
Address	: Conoco Inc.
>	: PO Box 2197
>	: Houston, TX 77252
Telephone	: 1-281-293-5550

# Indicates updated section.

End of MSDS

CONOCO -- DEXRON II AND MERCON - HYDRAULIC FLUID,AUTOMATIC TRANSMISSION
MATERIAL SAFETY DATA SHEET
NSN: 9150006574959
Manufacturer's CAGE: 5R396
Part No. Indicator: A
Part Number/Trade Name: DEXRON II AND MERCON

General Information

Item Name: HYDRAULIC FLUID,AUTOMATIC TRANSMISSION
Company's Name: CONOCO INC
Company's P. O. Box: 2197
Company's City: HOUSTON
Company's State: TX
Company's Country: US
Company's Zip Code: 77252
Company's Emerg Ph #: 800-424-9300/441-3637
Company's Info Ph #: 713-293-5550
Distributor/Vendor # 1: AIM CHEMICALS INC (713-529-4251)
Distributor/Vendor # 1 Cage: 0AR58
Record No. For Safety Entry: 024
Tot Safety Entries This Stk#: 039
Status: SE
Date MSDS Prepared: 01APR89
Safety Data Review Date: 17JAN95
Supply Item Manager: CX
MSDS Preparer's Name: ENVIRO & OCCUP HEALTH SRV
Preparer's Company: CONOCO INC. (713-293-5550)
Preparer's St Or P. O. Box: (MSDS CODE:ATFC0039)
MSDS Serial Number: BWDXC
Specification Number: DEXRON II
Hazard Characteristic Code: N1
Unit Of Issue: CN
Unit Of Issue Container Qty: 5 GALLONS
Type Of Container: CAN
Net Unit Weight: 36.3 LBS

Ingredients/Identity Information

Proprietary: NO
Ingredient: PER MSDS:MATL NOT HAZ AS DEFINED BY OSHA HAZ COMMUN STD, 20CFR1910.1200.
Ingredient Sequence Number: 01
Percent: 100
NIOSH (RTECS) Number: 9999999ZZ
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED
Other Recommended Limit: NONE RECOMMENDED

Physical/Chemical Characteristics

Appearance And Odor: CLEAR RED LIQUID, MILD PETROLEUM HYDROCARBON ODOR.
Boiling Point: 650F,343C
Vapor Density (Air=1): >1
Specific Gravity: 0.87
Evaporation Rate And Ref: NIL, REF=UNK
Solubility In Water: INSOLUBLE
Percent Volatiles By Volume: NIL
Autoignition Temperature: 650F

Fire and Explosion Hazard Data

Flash Point: 325F,163C
Flash Point Method: PMCC
Extinguishing Media: USE WATER SPRAY, DRY CHEMICAL, CO2, FOAM.
Special Fire Fighting Proc: WATER/FOAM MAY CAUSE FROTHING.USE WATER TO KEEP FIRE-EXPO CNTNRS COOL.WATERSPRAY MAY BE USED TO FLUSH SPILLS AWAY FROM EXPOSURES.
Unusual Fire And Expl Hazrds: PROD OF COMBUST MAY CONTAIN CARBON MONOXIDE,

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

Reactivity Data

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

Health Hazard Data

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

Precautions for Safe Handling and Use

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

Control Measures

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

Transportation Data

Trans Data Review Date: 95017

DOT PSN Code: ZZZ
DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
IMO PSN Code: ZZZ
IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION
IATA PSN Code: ZZZ
IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
AFI PSN Code: ZZZ
AFI Prop. Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

Disposal Data

Label Data

Label Required: YES
Technical Review Date: 17JAN95
Label Status: F
Common Name: DEXRON II AND MERCON
Chronic Hazard: NO
Signal Word: CAUTION!
Acute Health Hazard-Slight: X
Contact Hazard-Slight: X
Fire Hazard-None: X
Reactivity Hazard-None: X
Special Hazard Precautions: PROD DOES NOT POSE SIG HEALTH HAZ BUT AS W/ MANY PETROLEUM PROD POOR HYGIENIC PRACT/INADEQUATE ENGINEERING DESING THAT ALLOW PROLONGED/REPEATED EXPOSURE MAY CAUSE MINOR SKIN IRRIT. HANDLE & STORE IAW NFPA PROCEDURE FOR CLASS IIIB COMBUST LIQ. TARGET ORGANS:SKIN. 1STAID:EYE:IMMED FLUSH W/LOTS OF WATER FOR @LEAST 15MINS.CALL DR.SKIN:CMPD NOT LIKELY TO BE HAZ BY SKIN CONTACT BUT CLEANSING SKIN AFT USE IS ADVISABLE.INHAL:NO SPECIFIC INTERVENTION IS INDICATED AS CMPD NOT LIKELY TO BE HAZ BY INHAL.HOWEVER CONSULT DR IF NECESSARY.INGEST:DO NOT INDUCE VOMIT. GIVE LG AMTS OF WATER.CALL DR.NOTE TO DR:GASTRIC LAVAGE BY QUAL PERSON DEPENDING ON AMT INGESTED
Protect Eye: Y
Protect Skin: Y
Protect Respiratory: Y
Label Name: CONOCO INC
Label P.O. Box: 2197
Label City: HOUSTON
Label State: TX
Label Zip Code: 77252
Label Country: US
Label Emergency Number: 800-424-9300/441-3637

UTAH POWER & LIGHT COMPANY - MINING DIVISION

LONGWALL FOREMAN'S DAILY OPERATING REPORT

Mine: TM Section: 10th R. Foreman: [illegible]

Location: 1 Section No.: 0 0 Date: Month 0 8 Day 3 1 Year 1 Day Shift (Circle) Day Swing

Foreman's Employee Number: 20016 No. of Men: 015 Tons Loaded:

— PRODUCTION INFORMATION —

SHEAR OPERATION		FACE MEASUREMENTS	
Headgate Advance		H.G. Beg.	
Tailgate Advance		T.G. Beg.	
Cuts-Headgate to Tailgate		H.G. End.	
Cuts-Tailgate to Headgate		T.G. End.	
Shear At Shield No.			

AIR QUANTITY	C.F.M.
Headgate	411
Tailgate	602
[illegible]	58020

— SAFETY INFORMATION —

ACCIDENTS	YES	NO
Any [illegible]		
[illegible]		
[illegible]		

FEDERAL or STATE INSPECTOR'S NAME

— TIME INFORMATION —

Time Mantrip Left Portal	1201A	Time Production Started	:	Time Mantrip Left Section	:
Time Mantrip Arrived Sec.	1255A	Time Production Stopped	:	Time Mantrip Arrived	:

— MATERIALS USED —

A	Emulsion Oil		Bars/Beams		Powder Used
	Timbers Installed		Crib Block-Used		Caps Used
	Rock Dust Used		Other		

— DELAYS AND EQUIPMENT INFORMATION —

— DELAYS — Time Started	Time Ended	EQUIPMENT NUMBER	EQUIPMENT DOWNTIME Hours Mins.	LOADING TIME LOST Hours Mins.	REASONS FOR DELAYS OR REPAIRS NEEDED	Serviced
			15	:	AVRP + Exercise	
			:	:		
			:	:		
			:	:		
			:	:		
			:	:		
			:	:		
			:	:		
			:	:		

— SUGGESTIONS — COMMENTS — REMARKS —

SVC, RPR Face Conveyor Chain, RPR Monorail Hoist
RPR Push the Pull me, Set Timber, Pulled Belt Stat

Injury/Accident Report? Yes No

LONGWALL FOREMAN'S SIGNATURE SHIFT FOREMAN'S SIGNATURE OTHER SUPERVISOR'S SIGNATURE

DISTRIBUTION: Original, Main Office; Green Copy to Superintendent; 1 Copy to Maintenance; 1 Copy to Shift Foreman

UTAH POWER & LIGHT COMPANY - MINING DIVISION

LONGWALL FOREMAN'S DAILY OPERATING REPORT

Mine: Trail Mt. Section: 10 Right Foreman:

Location: 1 | Section No.: 0 0 | Date: 01 31 98 (Month Day Year) | Day: monday

Foreman's Employee Number: 13041 | No. of Men: 04 | Tons Loaded: | Shift (Circle): 1 Grave Day Swin

— PRODUCTION INFORMATION —

SHEAR OPERATION		FACE MEASUREMENTS	
Headgate Advance		H.G. Beg.	
Tailgate Advance		T.G. Beg.	
Cuts-Headgate to Tailgate		H.G. End.	
Cuts-Tailgate to Headgate		T.G. End.	
Shear At Shield No.			

— SAFETY INFORMATION —

AIR QUANTITY	C.F.M.
Headgate	
Tailgate	

ACCIDENTS	YES	NO
Any Reported		✓
Form Filled In		✓
Name		

FEDERAL or STATE INSPECTORS NAME

— TIME INFORMATION —

Time Mantrip Left Portal	01 7 00	Time Production Started	:	Time Mantrip Left Section	01 2 30
Time Mantrip Arrived Sec.	01 7 30	Time Production Stopped	:	Time Mantrip Arrived Port.	01 3 00

— MATERIALS USED —

	Emulsion Oil		Bars/Beams		Powder Used	
	Timbers Installed		Crib Block-Used		Caps Used	
	Rock Dust Used		Other			

— DELAYS AND EQUIPMENT INFORMATION —

— DELAYS — Time Started	Time Ended	EQUIPMENT NUMBER	EQUIPMENT DOWNTIME Hours Mins.	LOADING TIME LOST Hours Mins.	REASONS FOR DELAYS REPAIRS NEEDED	Delay Code	Serviced (✓)
730	745		:	: 15	AVRP & Stretchs		
			:	:			
			:	:			
			:	:			
			:	:			
			:	:			
			:	:			
			:	:			
			:	:			

— SUGGESTIONS — COMMENTS — REMARKS —

Set cans into intersection nailed plank up in Belt Entry pulled and Load Chain up put outby. Got push pipe Ready To go For move Rubber pipe up ~~at~~ 20-21 intersection. pulled Belt out of winder.

Surveyors Needed ☐ Yes - ☐ No

LONGWALL FOREMAN'S SIGNATURE | SHIFT FOREMAN'S SIGNATURE | OTHER SUPERVISOR'S INITIALS

DISTRIBUTION: Original, Mine Office; Green Copy to Superintendent; 1 Copy to Maintenance; 2 Copy to Cost Control

YELLOW COPY TO DATA PROCESSING

Form No. UPL M002

UTAH POWER & LIGHT COMPANY - MINING DIVISION

LONGWALL FOREMAN'S DAILY OPERATING REPORT

Mine: Trail Mountain Section: 10th R Foreman: Lobato (Print Last Name)

Location: 1 Section No.: 0 0 Date: 8 / 31 / 98 (Month / Day / Year) Day: Monday

Foreman's Employee Number: 98899 No. of Men: 18 Tons Loaded: 4910 Shift (Circle): 1 Grave 2 Day 3 Swin

— PRODUCTION INFORMATION —

SHEAR OPERATION		FACE MEASUREMENTS	
Headgate Advance		H.G. Beg.	0+28
Tailgate Advance		T.G. Beg.	0+29
Cuts-Headgate to Tailgate	7	H.G. End.	0+42
Cuts-Tailgate to Headgate	7	T.G. End.	0+51
Shear At Shield No.	46		

— SAFETY INFORMATION —

AIR QUANTITY	C.F.M.	ACCIDENTS	YES	NO
Headgate	400	Any Reported		X
Tailgate	540	Form Filled In		
Entire 58075		Name		
FEDERAL or STATE INSPECTORS NAME				

— TIME INFORMATION —

Time Mantrip Left Portal	8:00	Time Production Started	8:40	Time Mantrip Left Section	:
Time Mantrip Arrived Sec.	8:35	Time Production Stopped	3:30	Time Mantrip Arrived Port.	:

— MATERIALS USED —

	Emulsion Oil		Bars/Beams		Powder Used	
	Timbers Installed		Crib Block-Used		Caps Used	
	Rock Dust Used		Other			

— DELAYS AND EQUIPMENT INFORMATION —

DELAYS Time Started	DELAYS Time Ended	EQUIPMENT NUMBER	EQUIPMENT DOWNTIME Hours Mins.	LOADING TIME LOST Hours Mins.	REASONS FOR DELAYS REPAIRS NEEDED	Delay Code	Serviced (✓)
			:	:	AJ.RP & Expertise		
8:45	8:50		:	:15	Belts off 10th		
			:	:30	Tail Gate over Loads Through		
			:	:	out Shift		
			:	:25	Plug up can. Cut During Shift		
			:	:			
			:	:			
			:	:			
			:	:			

— SUGGESTIONS — COMMENTS — REMARKS —

Pulled Structure. Wash Shield Worked on Hose.
Took Tape off Tail Gate

Surveyors Needed ☐ Yes - ☐ No

LONGWALL FOREMAN'S SIGNATURE: [signature] SHIFT FOREMAN'S SIGNATURE: OTHER SUPERVISOR'S INITIALS:

DISTRIBUTION: Original, Main Office; Green Copy to Superintendent; 1 Copy to Maintenance; 1 Copy to Cost Control

UTAH POWER & LIGHT COMPANY - MINING DIVISION

LONGWALL FOREMAN'S DAILY OPERATING REPORT

Mine: Trail Section: 10th Right Foreman: C Cox (Print Last Name)

Location: 1 Section No.: 00 Date: 8 (Month) 31 (Day) 98 (Year) Day: Monday

Foreman's Employee Number: 97812 No. of Men: 8 Tons Loaded: 6300 Shift (Circle): 1 Grave 2 Day 3 Swi

— PRODUCTION INFORMATION —

SHEAR OPERATION		FACE MEASUREMENTS	
Headgate Advance		H.G. Beg.	-43
Tailgate Advance		T.G. Beg.	-50
Cuts-Headgate to Tailgate	9	H.G. End.	
Cuts-Tailgate to Headgate	9	T.G. End.	
Shear At Shield No.	HG		

— SAFETY INFORMATION —

AIR QUANTITY	C.F.M.	ACCIDENTS	YES	NO
Headgate	440	Any Reported		✓
Tailgate	590	Form Filled In		
Intake	58,430	Name		

FEDERAL or STATE INSPECTORS NAME: Jim Marti

— TIME INFORMATION —

Time Mantrip Left Portal	4:00p	Time Production Started	5:12	Time Mantrip Left Section	11:25
Time Mantrip Arrived Sec.	4:35	Time Production Stopped	11:23	Time Mantrip Arrived Port.	12:00

— MATERIALS USED —

	Emulsion Oil		Bars/Beams		Powder Used	
	Timbers Installed		Crib Block-Used		Caps Used	
	Rock Dust Used		Other			

— DELAYS AND EQUIPMENT INFORMATION —

— DELAYS — Time Started	Time Ended	EQUIPMENT NUMBER	EQUIPMENT DOWNTIME Hours Mins.	LOADING TIME LOST Hours Mins.	REASONS FOR DELAYS REPAIRS NEEDED	Delay Code	Service (✓)
4:35	4:45			:10	Exer + AVRP		
4:45	5:10			:25	Grade high belt structure		
					down as start of incline		
7:05	8:15			1h:10min	Replace 50mm hose (wa		
					(short one) 1/2 in Bretby		
					1/2 in Pan		

— SUGGESTIONS — COMMENTS — REMARKS —

Pull Structure and Monorail
Grade Belt Structure
Replace water hose (2") at midface
Took 1 Taper off TG (needs more = out of Monorail)

Surveyors Needed ☐ Yes - ☐ No

Clayton M. Cox
LONGWALL FOREMAN'S SIGNATURE

SHIFT FOREMAN'S SIGNATURE

OTHER SUPERVISOR'S INITIALS

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UTAH POWER & LIGHT COMPANY - MINING DIVISION

LONGWALL FOREMAN'S DAILY OPERATING REPORT

Mine: Trail Mountain Section: 10th R Foreman: Lobato (Print Last Name)

Location: 1 Section No.: 00 Date: 9 (Month) 1 (Day) 98 (Year) Day: Tuesday

Foreman's Employee Number: 98899 No. of Men: 18 Tons Loaded: 5950 Shift (Circle): 1 Graveyard 2 Day 3 Swing

— PRODUCTION INFORMATION —

SHEAR OPERATION		FACE MEASUREMENTS	
Headgate Advance		H.G. Beg.	0+68
Tailgate Advance		T.G. Beg.	0+63
Cuts-Headgate to Tailgate	9	H.G. End.	0+95
Cuts-Tailgate to Headgate	8	T.G. End.	0+90
Shear At Shield No.	70 To Tail		

— SAFETY INFORMATION —

AIR QUANTITY	C.F.M.
Headgate	400
Tailgate	425
	58 / 150

ACCIDENTS	YES	NO
Any Reported		X
Form Filled In		
Name		

FEDERAL or STATE INSPECTORS NAME

— TIME INFORMATION —

Time Mantrip Left Portal	8:00	Time Production Started	8:45	Time Mantrip Left Section	3:315
Time Mantrip Arrived Sec.	8:315	Time Production Stopped	3:30	Time Mantrip Arrived Port.	4:00

— MATERIALS USED —

	Emulsion Oil		Bars/Beams		Powder Used	
	Timbers Installed		Crib Block-Used		Caps Used	
	Rock Dust Used		Other			

— DELAYS AND EQUIPMENT INFORMATION —

Time Started	Time Ended	EQUIPMENT NUMBER	EQUIPMENT DOWNTIME Hours Mins.	LOADING TIME LOST Hours Mins.	REASONS FOR DELAYS REPAIRS NEEDED	Delay Code	Serviced (✓)
					AVRS & Exercise		
10.10	1025			:15	Repaired Bretbar		
1125	1150			:25	Repaired Bretbar		
				:25	Chunks all shift		

— SUGGESTIONS — COMMENTS — REMARKS —

Pulled Structures

Surveyors Needed ☐ Yes - ☐ No

Leland Lobato — LONGWALL FOREMAN'S SIGNATURE

SHIFT FOREMAN'S SIGNATURE

OTHER SUPERVISOR'S INITIALS

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LONGWALL FOREMAN'S DAILY OPERATING REPORT

ne Trail Section 10th Right Foreman C Cox (Print Last Name)

cation | | Section No. 0 0 | Date 9 / 1 / 98 (Month / Day / Year) | Day Tuesday

man's ployee mber 97812 | No. of Men 8 | Tons Loaded 7350 | Shift (Circle) 1 Grave 2 Day 3 Swing

— PRODUCTION INFORMATION —

SHEAR OPERATION		FACE MEASUREMENTS	
eadgate Advance	28	H.G. Beg.	93
ailgate Advance	29	T.G. Beg.	88
uts-Headgate to Tailgate	10	H.G. End.	1+21
uts-Tailgate to Headgate	11	T.G. End.	1+17
hear At Shield No.	HG		

— SAFETY INFORMATION —

AIR QUANTITY	C.F.M.	ACCIDENTS	YES	NO
Headgate	430	Any Reported		✓
Tailgate	505	Form Filled In		
Intake	59130	Name		
FEDERAL or STATE INSPECTORS NAME				

— TIME INFORMATION —

me Mantrip Left Portal	4:00p	Time Production Started	:	Time Mantrip Left Section	11:30
me Mantrip Arrived Sec.	4:30	Time Production Stopped	11:28	Time Mantrip Arrived Port.	12:00p

— MATERIALS USED —

	Emulsion Oil		Bars/Beams		Powder Used	
	Timbers Installed		Crib Block-Used		Caps Used	
	Rock Dust Used		Other			

— DELAYS AND EQUIPMENT INFORMATION —

— DELAYS — Time Started	Time Ended	EQUIPMENT NUMBER	EQUIPMENT DOWNTIME Hours Mins.	LOADING TIME LOST Hours Mins.	REASONS FOR DELAYS REPAIRS NEEDED	Delay Code	Serviced (✓)
430	4:40		:	:10	Exer + AURP		
440	445		:	:5	Checking Cowl Flusher		
:30	5:45		:	:15	Take off Ranging Arm		
			:	:	cover to un-kink flush hose		
:17	7:24		:	:7	Belts		
:45	9:55		:	:10	Stage Loader Plugged		
			:	:	(chunk stuck in)		
			:	:			
			:	:			

— SUGGESTIONS — COMMENTS — REMARKS —

Pull Structure + Mono-rail
work on shear cowl flush hose.
Took 1 Taper off HG

Surveyors Needed ☐ Yes - ☐ No

C Clayton McCoy
LONGWALL FOREMAN'S SIGNATURE

SHIFT FOREMAN'S SIGNATURE

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UTAH POWER & LIGHT COMPANY - MINING DIVISION

LONGWALL FOREMAN'S DAILY OPERATING REPORT

Mine: TM Section: 10TH R Foreman: Cooper (Print Last Name)

Location: Section No.: 00 Date: 09 (Month) 01 (Day) 95 (Year) Day:

Foreman's Employee Number: 20016 No. of Men: 05 Tons Loaded: Shift (Circle): 1 Grave 2 Day 3 Swing

— PRODUCTION INFORMATION —

SHEAR OPERATION		FACE MEASUREMENTS
Headgate Advance		H.G. Beg.
Tailgate Advance		T.G. Beg.
Cuts-Headgate to Tailgate		H.G. End.
Cuts-Tailgate to Headgate		T.G. End.
Shear At Shield No.		

— SAFETY INFORMATION —

AIR QUANTITY	C.F.M.	ACCIDENTS	YES	NO
Headgate	465	Any Reported		✓
Tailgate	611	Form Filled In		✓
	59690	Name		

FEDERAL or STATE INSPECTORS NAME

— TIME INFORMATION —

Time Mantrip Left Portal	Data	Time Production Started		Time Mantrip Left Section	
Time Mantrip Arrived Sec.	1245A	Time Production Stopped		Time Mantrip Arrived Port.	

— MATERIALS USED —

	Emulsion Oil		Bars/Beams		Powder Used	
	Timbers Installed		Crib Block-Used		Caps Used	
	Rock Dust Used		Other			

— DELAYS AND EQUIPMENT INFORMATION —

— DELAYS — Time Started	Time Ended	EQUIPMENT NUMBER	EQUIPMENT DOWNTIME Hours Mins.	LOADING TIME LOST Hours Mins.	REASONS FOR DELAYS REPAIRS NEEDED	Delay Code	Serviced (✓)
			15		AVRP + Exercise		

— SUGGESTIONS — COMMENTS — REMARKS —

SVC, Moved Power, RRR Shields, Moved Dust pipe

Surveyors Needed ☐ Yes - ☐ No

LONGWALL FOREMAN'S SIGNATURE SHIFT FOREMAN'S SIGNATURE OTHER SUPERVISOR'S INITIALS

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UTAH POWER & LIGHT COMPANY - MINING DIVISION

LONGWALL FOREMAN'S DAILY OPERATING REPORT

Mine: Tri-Mountain Section: 10th R Foreman: Lobato (Print Last Name)

Location: 1 Section No.: 00 Date: 9 (Month) 12 (Day) 98 (Year) Day: Wednesday

Foreman's Employee Number: 95899 No. of Men: 18 Tons Loaded: 5760 Shift (Circle): 1 Grave 2 Day 3 Swing

— PRODUCTION INFORMATION —

SHEAR OPERATION		FACE MEASUREMENTS	
Headgate Advance		H.G. Beg.	1+19
Tailgate Advance		T.G. Beg.	1+12
Cuts-Headgate to Tailgate		H.G. End.	1+42
Cuts-Tailgate to Headgate		T.G. End.	1+30
Shear At Shield No.			

— SAFETY INFORMATION —

AIR QUANTITY	C.F.M.	ACCIDENTS	YES	NO
Headgate	420	Any Reported		✓
Tailgate	450	Form Filled In		
Intake 59350		Name		
FEDERAL or STATE INSPECTORS NAME				

— TIME INFORMATION —

Time Mantrip Left Portal	8:010	Time Production Started	8:515	Time Mantrip Left Section	3:45
Time Mantrip Arrived Sec.	8:315	Time Production Stopped	3:40	Time Mantrip Arrived Port.	4:00

— MATERIALS USED —

	Emulsion Oil		Bars/Beams		Powder Used	
	Timbers Installed		Crib Block Used		Caps Used	
	Rock Dust Used		Other			

— DELAYS AND EQUIPMENT INFORMATION —

Time Started	Time Ended	EQUIPMENT NUMBER	EQUIPMENT DOWNTIME Hours Mins.	LOADING TIME LOST Hours Mins.	REASONS FOR DELAYS REPAIRS NEEDED	Delay Code	Serviced (✓)
					AURP & Exercise		
					Safty Talk		
930	955			:25	Cover on Dump Point	Stageload	
					Broke Put New Bolts In.		
130	220			:50	Stageloader Chain Broke		
					one Side. Repaired		

— SUGGESTIONS — COMMENTS — REMARKS —

Pulled Structure, Repaired Stageloader Chain Put New Bolts In Cover Stageloader Washed Shield. Took 1 Cover off Head Gate

Surveyors Needed ☐ Yes - ☐ No

LONGWALL FOREMAN'S SIGNATURE | SHIFT FOREMAN'S SIGNATURE | OTHER SUPERVISOR'S INITIALS

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UTAH POWER & LIGHT COMPANY - MINING DIVISION

LONGWALL FOREMAN'S DAILY OPERATING REPORT

ne Trail Section 10th Right Foreman C Cox (Print Last Name)

tion | Section No. 0 0 | Date 9 (Month) 2 (Day) 98 (Year) | Day Wednesday

man's ployee mber 97812 | No. of Men 8 | Tons Loaded 4400 | Shift (Circle) 1 Grave 2 Day 3 Swing

— PRODUCTION INFORMATION —

SHEAR OPERATION		FACE MEASUREMENTS
eadgate Advance		H.G. Beg.
ailgate Advance		T.G. Beg.
uts-Headgate to Tailgate		H.G. End.
uts-Tailgate to Headgate		T.G. End.
hear At Shield No.		

— SAFETY INFORMATION —

AIR QUANTITY	C.F.M.	ACCIDENTS	YES	NO
Headgate	430	Any Reported		✓
Tailgate	510	Form Filled In		
Intake	59,320	Name		

FEDERAL or STATE INSPECTORS NAME Jim Martin

— TIME INFORMATION —

me Mantrip Left Portal	4:00p	Time Production Started	4:51	Time Mantrip Left Section	11:18
me Mantrip Arrived Sec.	4:30p	Time Production Stopped	11:16	Time Mantrip Arrived Port.	12:00p

— MATERIALS USED —

	Emulsion Oil		Bars/Beams		Powder Used	
	Timbers Installed		Crib Block-Used		Caps Used	
	Rock Dust Used		Other			

— DELAYS AND EQUIPMENT INFORMATION —

— DELAYS — Time Started	Time Ended	EQUIPMENT NUMBER	EQUIPMENT DOWNTIME Hours Mins.	LOADING TIME LOST Hours Mins.	REASONS FOR DELAYS REPAIRS NEEDED	Delay Code	Serviced (✓)
430	4:40			:10	Safety Mtg		
40	4:50			:10	Exer + A BRP		
30	5:42			:12	Cleaning Tight		
					side of Belt		
40				1 hr 35 min	10th R Belt #1		
					tore in half		
	9:15				went into 6th Right		

— SUGGESTIONS — COMMENTS — REMARKS —

Made 4½ cuts in 10th

Made 1 and 2/3 cuts in 6th

Surveyors Needed ☐ Yes - ☐ No

Clayton McCox
LONGWALL FOREMAN'S SIGNATURE

SHIFT FOREMAN'S SIGNATURE

OTHER SUPERVISOR'S INITIALS

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UTAH POWER & LIGHT COMPANY - MINING DIVISION

LONGWALL FOREMAN'S DAILY OPERATING REPORT

Mine TM Section 10th R Foreman [illegible]

Location | | Section No. 0 0 | Date 09 02 98 (Month Day Year) | Day Shift (Circle) 1 Grave 2 Day 3 Swi

Foreman's Employee Number 20016 | No. of Men 05 | Tons Loaded

— PRODUCTION INFORMATION —

SHEAR OPERATION		FACE MEASUREMENTS
Headgate Advance		H.G. Beg.
Tailgate Advance		T.G. Beg.
Cuts-Headgate to Tailgate		H.G. End.
Cuts-Tailgate to Headgate		T.G. End.
Shear At Shield No.		

— SAFETY INFORMATION —

AIR QUANTITY	C.F.M.	ACCIDENTS	YES	NO
Headgate		Any Reported		
Tailgate		Form Filled In		
		Name		

FEDERAL or STATE INSPECTORS NAME

— TIME INFORMATION —

Time Mantrip Left Portal	1201A	Time Production Started	:	Time Mantrip Left Section	:
Time Mantrip Arrived Sec.	1240A	Time Production Stopped	:	Time Mantrip Arrived Port.	:

— MATERIALS USED —

	Emulsion Oil		Bars/Beams		Powder Used	
	Timbers Installed		Crib Block-Used		Caps Used	
	Rock Dust Used		Other			

— DELAYS AND EQUIPMENT INFORMATION —

— DELAYS — Time Started	Time Ended	EQUIPMENT NUMBER	EQUIPMENT DOWNTIME Hours Mins.	LOADING TIME LOST Hours Mins.	REASONS FOR DELAYS REPAIRS NEEDED	Delay Code	Serviced (✓)
			15	:	AVRP & Exercize		
			:	:			
			:	:			
			:	:			
			:	:			
			:	:			
			:	:			
			:	:			
			:	:			

— SUGGESTIONS — COMMENTS — REMARKS —

SVC, RPR, Mid Pace cables, Checked Tail drive Nips, & O.G. in Controller, moved conspec in Return up, Removed mon Rail

Surveyors Needed ☐ Yes - ☐ No

Emery Cooper

LONGWALL FOREMAN'S SIGNATURE | SHIFT FOREMAN'S SIGNATURE | OTHER SUPERVISOR'S INITIALS

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UTAH POWER & LIGHT COMPANY - MINING DIVISION

LONGWALL FOREMAN'S DAILY OPERATING REPORT

Mine: Trail Mt. Section: 10 Right Foreman: Swasey (Print Last Name)

Location: | Section No.: 00 | Date: 09 (Month) 02 (Day) 98 (Year) | Day: Wen.

Foreman's Employee Number: 13041 | No. of Men: 04 | Tons Loaded: | Shift (Circle): 1 Grave (2) Day 3 Swing

— PRODUCTION INFORMATION —

SHEAR OPERATION		FACE MEASUREMENTS
Headgate Advance	/	H.G. Beg.
Tailgate Advance	/	T.G. Beg.
Cuts-Headgate to Tailgate	/	H.G. End.
Cuts-Tailgate to Headgate	/	T.G. End.
Shear At Shield No.		

— SAFETY INFORMATION —

AIR QUANTITY	C.F.M.	ACCIDENTS	YES	NO
Headgate	/	Any Reported		✓
Tailgate	/	Form Filled In		✓
		Name		

FEDERAL or STATE INSPECTORS NAME

— TIME INFORMATION —

Time Mantrip Left Portal	:	Time Production Started	:	Time Mantrip Left Section	:
Time Mantrip Arrived Sec.	:	Time Production Stopped	:	Time Mantrip Arrived Port.	:

— MATERIALS USED —

	Emulsion Oil		Bars/Beams		Powder Used	
	Timbers Installed		Crib Block-Used		Caps Used	
	Rock Dust Used		Other			

— DELAYS AND EQUIPMENT INFORMATION —

— DELAYS — Time Started	Time Ended	EQUIPMENT NUMBER	EQUIPMENT DOWNTIME Hours Mins.	LOADING TIME LOST Hours Mins.	REASONS FOR DELAYS REPAIRS NEEDED	Delay Code	Serviced (✓)
			:	:			
			:	:			
			:	:			
			:	:			
			:	:			
			:	:			
			:	:			
			:	:			
			:	:			

— SUGGESTIONS — COMMENTS — REMARKS —

Set can into intersection Loaded 4" Steel pipe Also monna Rail Also Some Belt. Structure Had Trouble on Hill Between 34-33 XC put Some Rock dust Line Toghten Set Timber's on Belt Line At Hill Rib Rolled Broke Two Timber.

Surveyors Needed ☐ Yes - ☐ No

[signature] LONGWALL FOREMAN'S SIGNATURE | SHIFT FOREMAN'S SIGNATURE | OTHER SUPERVISOR'S INITIALS

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UTAH POWER & LIGHT COMPANY - MINING DIVISION

LONGWALL FOREMAN'S DAILY OPERATING REPORT

Mine: Trail Section: 10th Right Foreman: C Cox (Print Last Name)

Location: 1 Section No.: 00 Date: 9 (Month) 3 (Day) 98 (Year) Day: Thursday

Foreman's Employee Number: 97812 No. of Men: 7 Tons Loaded: 4900 Shift (Circle): 1 Grave 2 Day 3 Swing

— PRODUCTION INFORMATION —

SHEAR OPERATION		FACE MEASUREMENTS
Headgate Advance		H.G. Beg.
Tailgate Advance		T.G. Beg.
Cuts-Headgate to Tailgate	7	H.G. End.
Cuts-Tailgate to Headgate	7	T.G. End.
Shear At Shield No.	HG	

— SAFETY INFORMATION —

AIR QUANTITY	C.F.M.	ACCIDENTS	YES	NO
Headgate	465	Any Reported		✓
Tailgate	515	Form Filled In		
Intake	60/70	Name		

FEDERAL or STATE INSPECTORS NAME

— TIME INFORMATION —

Time Mantrip Left Portal	4:00p	Time Production Started	4:40	Time Mantrip Left Section	11:28
Time Mantrip Arrived Sec.	4:30	Time Production Stopped	11:25	Time Mantrip Arrived Port.	12:00

— MATERIALS USED —

	Emulsion Oil		Bars/Beams		Powder Used	
	Timbers Installed		Crib Block-Used		Caps Used	
	Rock Dust Used		Other			

— DELAYS AND EQUIPMENT INFORMATION —

— DELAYS — Time Started	Time Ended	EQUIPMENT NUMBER	EQUIPMENT DOWNTIME Hours Mins.	LOADING TIME LOST Hours Mins.	REASONS FOR DELAYS REPAIRS NEEDED	Delay Code	Serviced (✓)
430	440			:10	Exer + AURP		
4:40	5:05			:25	Get rib fall off Belt		
					structure + clean under	tail pc	
745	9:00			1hr:15min	HG Ranging arm		
					wouldn't drop - replaced		
					check valve		

— SUGGESTIONS — COMMENTS — REMARKS —

Pulled structure + Monorail
Timbered on both sides of Stage loader
Raised Face Conveyor + blocked gob side of pan
112 to 140
Repaired shear

Surveyors Needed ☐ Yes - ☐ No

Clayton M. Cox
LONGWALL FOREMAN'S SIGNATURE SHIFT FOREMAN'S SIGNATURE OTHER SUPERVISOR'S INITIALS

DISTRIBUTION: Original, Main Office; Green Copy to Superintendent; 1 Copy to Maintenance; 1 Copy to Cost Control

UTAH POWER & LIGHT COMPANY - MINING DIVISION

LONGWALL FOREMAN'S DAILY OPERATING REPORT

Mine: Trail Mountain Section: 10th R Foreman: Lobato (Print Last Name)

Location: 1 Section No.: 0 0 Date: 9 (Month) 4 (Day) 98 (Year) Day: Friday

Foreman's Employee Number: 98899 No. of Men: 8 Tons Loaded: 3150 Shift (Circle): 1 Grave 2 Day 3 Swing

— PRODUCTION INFORMATION —

SHEAR OPERATION		FACE MEASUREMENTS
Headgate Advance		H.G. Beg.
Tailgate Advance		T.G. Beg.
Cuts-Headgate to Tailgate	15	H.G. End. -1+80
Cuts-Tailgate to Headgate	4	T.G. End. -1+68
Shear At Shield No.	1/8	

— SAFETY INFORMATION —

AIR QUANTITY	C.F.M.	ACCIDENTS	YES	NO
Headgate	500	Any Reported		✓
Tailgate	535	Form Filled In		✓
5-5	450	Name		

FEDERAL or STATE INSPECTORS NAME

— TIME INFORMATION —

Time Mantrip Left Portal	8:00	Time Production Started	8:45	Time Mantrip Left Section	3:35
Time Mantrip Arrived Sec.	8:30	Time Production Stopped	3:30	Time Mantrip Arrived Port.	4:00

— MATERIALS USED —

Emulsion Oil		Bars/Beams		Powder Used	
Timbers Installed		Crib Block-Used		Caps Used	
Rock Dust Used		Other			

— DELAYS AND EQUIPMENT INFORMATION —

DELAYS Time Started	DELAYS Time Ended	EQUIPMENT NUMBER	EQUIPMENT DOWNTIME Hours Mins.	LOADING TIME LOST Hours Mins.	REASONS FOR DELAYS REPAIRS NEEDED	Delay Code	Serviced (✓)
					AVRP & Exercise		
					Safty Talk.		
				50	Chunks cutting Through		
					Tail Gate		
					Change Bits ~~[illegible]~~		
200	300			60	Ground Fault S.L. #2 Motor		

— SUGGESTIONS — COMMENTS — REMARKS —

Pulled Structure, Worked on Shields

Surveyors Needed ☐ Yes - ☐ No

[signature] LONGWALL FOREMAN'S SIGNATURE SHIFT FOREMAN'S SIGNATURE OTHER SUPERVISOR'S INITIALS

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UTAH POWER & LIGHT COMPANY - MINING DIVISION

LONGWALL FOREMAN'S DAILY OPERATING REPORT

Mine Trailmantain Section 10th Light Foreman [illegible] (Print Last Name)

Location [ ] Section No. 0 0 Date 9 (Month) 4 (Day) 98 (Year) Day Fri

Foreman's Employee Number 70962 No. of Men 7 Tons Loaded ~~[illegible]~~ ~~3000~~ 5000 Shift (Circle) 1 Grave 2 Day 3 Swing

— PRODUCTION INFORMATION —

SHEAR OPERATION		FACE MEASUREMENTS
Headgate Advance	9'	H.G. Beg. -1+80
Tailgate Advance	9'	T.G. Beg. -1+68
Cuts-Headgate to Tailgate	~~[illegible]~~	H.G. End. -1+89
Cuts-Tailgate to Headgate	~~[illegible]~~	T.G. End. -1+77
Shear At Shield No.	119	

— SAFETY INFORMATION —

AIR QUANTITY	C.F.M.	ACCIDENTS	YES	NO
Headgate	500	Any Reported		
Tailgate	525	Form Filled In		
	50,500	Name		

FEDERAL or STATE INSPECTORS NAME

— TIME INFORMATION —

Time Mantrip Left Portal	4:00	Time Production Started	4:50	Time Mantrip Left Section	11:30
Time Mantrip Arrived Sec.	4:35	Time Production Stopped	8:25	Time Mantrip Arrived Port.	12:00

— MATERIALS USED —

	Emulsion Oil		Bars/Beams		Powder Used	
	Timbers Installed		Crib Block-Used		Caps Used	
	Rock Dust Used		Other			

— DELAYS AND EQUIPMENT INFORMATION —

— DELAYS — Time Started	Time Ended	EQUIPMENT NUMBER	EQUIPMENT DOWNTIME Hours Mins.	LOADING TIME LOST Hours Mins.	REASONS FOR DELAYS REPAIRS NEEDED	Delay Code	Serviced (✓)
				15	Exercise/AVRT		
650	700			10	Crusher Torque Shaft		
750	805			15	Broken fitting on cowl flusher		
825	1130			3:05	Face conveyor plugged, kicking on overload, shoveled pan		

— SUGGESTIONS — COMMENTS — REMARKS —

Set timber by master 2 off walkway side, shoveled face conveyor

Surveyors Needed ☐ Yes - ☐ No

LONGWALL FOREMAN'S SIGNATURE SHIFT FOREMAN'S SIGNATURE OTHER SUPERVISOR'S INITIALS

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UTAH POWER & LIGHT COMPANY - MINING DIVISION

LONGWALL FOREMAN'S DAILY OPERATING REPORT

Mine: TM Section: 10th R Foreman: Cooper (Print Last Name)

Location: | | Section No.: 0 0 | | Date: 09 (Month) 04 (Day) 98 (Year) Day:

Foreman's Employee Number: 20016 No. of Men: 09 Tons Loaded: | | | Shift (Circle): 1 (Graves) 2 Day 3 Swing

— PRODUCTION INFORMATION —

SHEAR OPERATION		FACE MEASUREMENTS
Headgate Advance		H.G. Beg.
Tailgate Advance		T.G. Beg.
Cuts-Headgate to Tailgate		H.G. End.
Cuts-Tailgate to Headgate		T.G. End.
Shear At Shield No.		

— SAFETY INFORMATION —

AIR QUANTITY	C.F.M.	ACCIDENTS	YES	NO
Headgate	520	Any Reported		✓
Tailgate	640	Form Filled In		✓
	58545	Name		

FEDERAL or STATE INSPECTORS NAME

— TIME INFORMATION —

Time Mantrip Left Portal	[illegible]	Time Production Started		Time Mantrip Left Section	
Time Mantrip Arrived Sec.	[illegible]	Time Production Stopped		Time Mantrip Arrived Portal	

— MATERIALS USED —

Emulsion Oil		Bars/Beams		Powder Used	
Timbers Installed		Crib Block-Used		Caps Used	
Rock Dust Used		Other			

— DELAYS AND EQUIPMENT INFORMATION —

DELAYS — Time Started	Time Ended	EQUIPMENT NUMBER	EQUIPMENT DOWNTIME Hours Mins.	LOADING TIME LOST Hours Mins.	REASONS FOR DELAYS REPAIRS NEEDED	Delay Code	Sec-ced
			15		AVRP + Exercize		

— SUGGESTIONS — COMMENTS — REMARKS —

SVC, RPR Hose in pan, Changed All Bits on Shear to 94
Hauled pump out of Return, move conspectup, + Phone
RPR water Leak AT XC 30 H.P., Changed Ballast #34 #88

Surveyors Needed ☐ Yes - ☐ No

LONGWALL FOREMAN'S SIGNATURE SHIFT FOREMAN'S SIGNATURE OTHER SUPERVISOR'S INITIALS

DISTRIBUTION: Original, Main Office; Green Copy to Superintendent; 1 Copy to Maintenance; 1 Copy to Cost Control

Form No. UPLMD02

YELLOW COPY TO DATA PROCESSING

UTAH POWER & LIGHT COMPANY - MINING DIVISION

LONGWALL FOREMAN'S DAILY OPERATING REPORT

Mine Trail Mt Section 10 Right

Location [ ] Section No. 0 0 Date 01 9 01 9 85 Day Month Day Year (Shift) 3 Swing

Foreman's Employee Number 13041 No. of Men 013 Tons Coal Loaded (Circle) Day

— PRODUCTION INFORMATION —

SHEAR OPERATION		FACE MEASUREMENTS	
Headgate Advance		H.G. Beg.	
Tailgate Advance		T.G. Beg.	
Cuts-Headgate to Tailgate		H.G. End.	
Cuts-Tailgate to Headgate		T.G. End.	
Shear At Shield No.			

— SAFETY INFORMATION —

AIR QUANTITY	C.F.M.	ACCIDENTS	YES	NO
Headgate		Any Reported		✓
Tailgate		Form Filled In		✓
		Name		
FEDERAL or STATE INSPECTOR NAME				

— TIME INFORMATION —

Time Mantrip Left Portal	0 7 00	Time Production Started	01	Time Mantrip Left Section	0 7 30
Time Mantrip Arrived Sec.	0 7 30	Time Production Stopped	01	Time Mantrip Arrived Portal	0 8 00

— MATERIALS USED —

	Emulsion Oil		Bars/Beams		Powder Used
	Timbers Installed		Crib Block-Used		Caps Used
	Rock Dust Used		Other		Explained in Remarks for Delays

— DELAYS AND EQUIPMENT INFORMATION —

— DELAYS — Time Started	Time Ended	EQUIPMENT NUMBER	EQUIPMENT DOWNTIME Hours Mins.	LOADING TIME LOST Hours Mins.	REASONS FOR DELAYS REPAIRS NEEDED	Delay Code	Serviced (✓)

— SUGGESTIONS — COMMENTS — REMARKS —

Set Can up Hill About 20' Ahead of wall Loade Belt Structure And Cleaned up intake To 25 Cleaned up 10 Right Room's

Surveyors Needed ☐ Yes - ☐ No

LONGWALL FOREMAN'S SIGNATURE | SHIFT FOREMAN'S SIGNATURE | OTHER SUPERVISOR'S INITIALS

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Form No. UPLMD02

ENERGY WEST MINING COMPANY
SECTION FOREMAN'S DAILY OPERATING REPORT

General Information

Date: 9/5/98	Foreman: J Basso	Ft. of Adv.:	Ton/ft. Adv.:
Mine: TM	Shift: G D (A)	S/Cs Loaded:	
Section: 10" R.	# of Men: Tons:	Ton/Min. Operating:	
Mining Height (Avg.):	Bottom Coal: Y N	Split Thickness (Avg.):	
Water Problems (describe):	Surveyors Needed: Y N	Stopping Lines Examined 1,000 ft.: Y N	
		Section Clean 1,000 ft. Outby feeder: Y N	

Time Information

Leave Surface 4:00 A.M. P.M.	Production Start : A.M. P.M.	Leave Section : A.M. P.M.
Arrive Section 4:55 A.M. P.M.	Production Stop : A.M. P.M.	Arrive Surface 4:55 A.M. (P.M.)

Section Information

Face Location						
Places Mined						
Places Bolted						
Places Not Bolted						

Operational Information

# Men on O/T:	Stopping Complete: Y N	# Mats Installed:	Type of Bolts Installed:
# of O/T hours Pd.:	Belt Hanger Inst. (ft.):	# Mesh Installed:	Length of Bolts Installed:
Assignments:	Bolter Stocked (%):	# Bags Dust Used:	Other:
	# Bolts Installed:	# Blocks Used:	

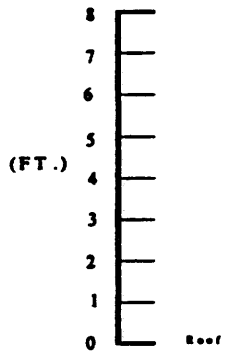
Delay and Equipment Information

Start	End	EQ. #	EQ. Time	Loading Time	Repair Completed or Reason for Delay
:	:		:	:	IDLE
:	:		:	:	
:	:		:	:	
:	:		:	:	
:	:		:	:	
:	:		:	:	
:	:		:	:	
:	:		:	:	
:	:		:	:	

Safety Information

LOXC (cfm):	Shop Car Clean/Stocked: Y N
Faces Vented: (Y) N	Accident Reported: Y N
AVRP: (Y) N	Name:
Stretching: Y N	Form Filed: Y N
Safety Meeting Y N	Stay on Job: Y N
SCSR's Checked: Y N	Inspector:
Dust at Duster: Y N	Citations: Y N
Roadway Scooped: Y N	Describe Citation(s):
Feeder Clean: Y N	
Kitchen Clean: Y N	

Coal = C
Carb. Mudstone = CMS
Mudstone = MS
Sandstone = SS
Interbeds = IB
Fracture Zone = FZ



Suggestions/Comments

Was not able to save side shield #81. We truned it Loose Got Top of three sheild Cleaned off & up enought for shear to clear. Got sheilds cleaned off Too where the toes are Level or higher then the gobe every sheild is clean Hung up one peice of belt & the other No chains on sheild gobed it. washed the intire Face down & washed out brattle troff. Finsh TMA Slant stopping #6 & 8

Section Foreman: [signature] Shift Foreman:

ENERGY WEST MINING COMPANY
SECTION FOREMAN'S DAILY OPERATING REPORT

General Information

Date: 9-5-98	Foreman: R.N. HCBI	Ft. of Adv.:	Ton/ft. Adv.:
Mine: Tw	Shift: G (D) A	S/Cs Loaded:	
Section: GEN MINE	# of Men: 12 Tons:	Ton/Min. Operating:	
Mining Height (Avg.):	Bottom Coal: Y N	Split Thickness (Avg.):	
Water Problems (describe):	Surveyors Needed: Y N	Stopping Lines Examined 1,000 ft.: Y N	
		Section Clean 1,000 ft. Outby feeder: Y N	

Time Information

Leave Surface 7:00 (A.M.) P.M.	Production Start : A.M. P.M.	Leave Section 3:25 A.M. (P.M.)	
Arrive Section 8:35 (A.M.) P.M.	Production Stop : A.M. P.M.	Arrive Surface 4:00 A.M. (P.M.)	

Section Information

Face Location						
Places Mined						
Places Bolted						
Places Not Bolted						

Operational Information

# Men on O/T:	Stopping Complete: Y N	# Mats Installed:	Type of Bolts Installed:
# of O/T hours Pd.:	Belt Hanger Inst. (ft.):	# Mesh Installed:	Length of Bolts Installed:
Assignments:	Bolter Stocked (%):	# Bags Dust Used:	Other:
	# Bolts Installed:	# Blocks Used:	

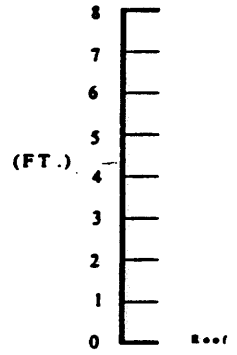
Delay and Equipment Information

Start	End	EQ. #	EQ. Time	Loading Time	Repair Completed or Reason for Delay
:	:		:	:	
:	:		:	:	
:	:		:	:	
:	:		:	:	
:	:		:	:	
:	:		:	:	
:	:		:	:	
:	:		:	:	
:	:		:	:	

Safety Information

LOXC (cfm):		Shop Car Clean/Stocked: Y N	
Faces Vented: Y N		Accident Reported: Y N	
AVRP: Y N		Name:	
Stretching: Y N		Form Filed: Y N	
Safety Meeting Y N		Stay on Job: Y N	
SCSR's Checked: Y N		Inspector:	
Dust at Duster: Y N		Citations: Y N	
Roadway Scooped: Y N		Describe Citation(s):	
Feeder Clean: Y N			
Kitchen Clean: Y N			

Coal = C
Carb. Mudstone = CMS
Mudstone = MS
Sandstone = SS
Interbeds = IB
Fracture Zone = FZ



Suggestions/Comments

HAD 3 MEN ON THE BELTS, 3 FIREBOSSES, 2 MEN IN THE DIESEL SHOP, & 4 MEN CLEANING & TRYING TO FIX THE 10TH RM. LONG WALL FACE

Section Foreman: Shift Foreman:

UTAH POWER & LIGHT COMPANY - MINING DIVISION

LONGWALL FOREMAN'S DAILY OPERATING REPORT

Mine Trail mountain Section 10th Right

Location | Section No. 00 | Date 9 (Month) 8 (Day) 51 (Year) | Day | Shift

Foreman's Employee Number 70962 | No. of Men 14 | Tons Loaded 433

— PRODUCTION INFORMATION —

SHEAR OPERATION		FACE MEASUREMENTS
Headgate Advance		H.G. Beg.
Tailgate Advance		T.G. Beg.
Cuts-Headgate to Tailgate	3	H.G. End. -1+92
Cuts-Tailgate to Headgate		T.G. End. -1+80
Shear At Shield No.		

— SAFETY INFORMATION —

AIR QUANTITY	C.F.M.	ACCIDENTS	YES
Headgate	575	Any Reported	
Tailgate	810	Form	
		Name	

FEDERAL or STATE INSPECTORS NAME

— TIME INFORMATION —

Time Mantrip Left Portal	8001	Time Production Started	:	Time Mantrip Left Section	8:30
Time Mantrip Arrived Sec.	8:30	Time Production Stopped	:	Time Mantrip Arrived Port.	8:50

— MATERIALS USED —

	Emulsion Oil		Bars/Beams		Powder Used
	Timbers Installed		Crib Block-Used		Caps Used
	Rock Dust Used		Other		

— DELAYS AND EQUIPMENT INFORMATION —

— DELAYS — Time Started	Time Ended	EQUIPMENT NUMBER	EQUIPMENT DOWNTIME Hours Mins.	LOADING TIME LOST Hours Mins.	REASONS FOR DELAYS REPAIRS NEEDED	Delay Code
			:	: 15	Goerbe/Auto	
			:	:	[illegible]	
			:	:	[illegible]	
			:	:	[illegible]	
			:	:		
			:	:		
			:	:		
			:	:		
			:	:		

— SUGGESTIONS — COMMENTS — REMARKS —

SVC shearer, shoveled face conveyor, Inspected face chain for damage

Surveyors Needed ☐ Yes - ☐ No

LONGWALL FOREMAN'S SIGNATURE | SHIFT FOREMAN'S SIGNATURE | OTHER SUPERVISOR'S INITIALS

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LONGWALL FOREMAN'S DAILY OPERATING REPORT

Trail Mountain Section 10th R Foreman Lobato (Print Last Name)

ation		Section No.	0 0	Date	9 8 98 (Month Day Year)
Day	Tuesday				
Shift (Circle)	1 Grave	2 Day	3 Swing		
man's oloyee nber	98899	No. of Men	18	Tons Loaded	1225

— PRODUCTION INFORMATION —

SHEAR OPERATION		FACE MEASUREMENTS
eadgate Advance		H.G. Beg.
ailgate Advance		T.G. Beg.
uts-Headgate to Tailgate	3	H.G. End.
uts-Tailgate to Headgate	1	T.G. End.
near At Shield No.	70	

— SAFETY INFORMATION —

AIR QUANTITY	C.F.M.	ACCIDENTS	YES	NO
Headgate	540	Any Reported		X
Tailgate	400	Form Filled In		
Intak 58975		Name		
FEDERAL or STATE INSPECTORS NAME				

— TIME INFORMATION —

me Mantrip Left Portal	4:00	Time Production Started	6:00	Time Mantrip Left Section	11:40
me Mantrip Arrived Sec.	4:30	Time Production Stopped	9:00	Time Mantrip Arrived Port.	12:00

— MATERIALS USED —

	Emulsion Oil		Bars/Beams		Powder Used	
	Timbers Installed		Crib Block-Used		Caps Used	
	Rock Dust Used		Other			

— DELAYS AND EQUIPMENT INFORMATION —

— DELAYS — Time Started	Time Ended	EQUIPMENT NUMBER	EQUIPMENT DOWNTIME Hours Mins.	LOADING TIME LOST Hours Mins.	REASONS FOR DELAYS REPAIRS NEEDED	Delay Code	Serviced (✓)
					AVRP & Exercise		
					Safty Talk		
45	600			1hr 15m	3 Back Links Face		
					Conveyor Chain Replaced		
				:60	Plug up Face conveyor		
					Both Directions		
					Added Hoops to Bretbeer		
55	11:30				Rocks Down on Face		
					Conveyor.		

— SUGGESTIONS — COMMENTS — REMARKS —

ut through Tail Gate 3 Times Strighten Pan.
Had to Replace Hoops in Bret-Bee Hose's Comming out
Cleaned Spray on Shear Crasher.
Sand Stone Comming Down Stuck Face Conveyor.
3 To 4' Rock Comming Down

Surveyors Needed ☐ Yes - ☐ No

LONGWALL FOREMAN'S SIGNATURE | SHIFT FOREMAN'S SIGNATURE | OTHER SUPERVISOR'S INITIALS

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MINE TECHNIK AMERICA INC.

1814 North 1500 West
P.O. Box 1016 • Price, Utah 84501

Telephone (801) 637-6136

Telefax (801) 637-9754

Attn: Carl Pollastro
Energy West
P.O. Box 310
Huntington, Utah 84528

RE: Trail Mountain Hemscheidt Supports

Dear Carl;

Per our conversation on Friday September 11, 1998, we discussed the possibility of having a customer interested with the purchase of the Hemscheidt Trail Mountain supports. Two weeks ago we contacted the customer and supplied them with the specifications of the supports.

Last week the customer notified us that they would like to arrange a 2-day underground visit to inspect the Trail Mountain Hemscheidt supports.

Last Thursday we were notified by Trail Mountain representatives that, due to unsafe mining conditions, the Trail Mountain Hemscheidt supports would not be available for sale.

Confirming my conversation with Dave Lauriski, we have contacted our MTA personnel in the field and have determined that none of the components that are on the supports have a market value.

We would like to thank Energy West for working with MTA on this project.

Regards,

Dan Espinoza

CC: Keith O'Neil
Bert Whitt
Linda Amoroso
Harry Martin

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

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801
(801) 538-5340
(801) 359-3940 (Fax)

December 11, 1998

To: File

Thru: Joe Helfrich, Permit Supervisor, Compliance

From: Wm. J. Malencik, Reclamation Specialist

RE: Longwall Underground Meeting, PacifiCorp, Trail Mountain Mine, ACT/015/009, Folder #2, Emery County, Utah

Date of Meeting	12/8/98
Length of Meeting	½ day
Who Requested Meeting:	PacifiCorp and BLM
Where Meeting Held:	Trail Mountain Mine Site
People Present:	PacifiCorp: Larry LaFrentz, Tom Lloyd
	BLM: Barry Grossley
	USFS: Invited, but did not attend.
	DOGM: Bill Malencik

Goal of Meeting: To confirm and validate noncoal waste items abandoned in the mine, items removed from under ground, and pending items that are needed and will be removed later.

Conclusion of Meeting: -PacifiCorp complied with their commitment on removing noncoal waste items associated with the longwall. Refer to Appendix I. Also, please refer to attachment I and II for other background information.

-It should be noted that pending items will be removed at a later date. The removal of pending items is associated with future mining of the 5th left west side longwall coal block. Mining of this block is scheduled for the year 2001.

Follow-up

DOGM: Internal - need for permit amendment under review.

sd
enclosures
cc: Barry Grossley, BLM, Price
Stan Perks, BLM, SLC
Carter Reed, USFS, Price
Chuck Semborski, PacifiCorp, Huntington
Larry, LaFrentz, PacifiCorp, Huntington
Daron Haddock, DOGM, SLC

10TH RIGHT LONGWALL SECTION EQUIPMENT LIST:

A*	B* ITEM	C* STATUS
RECOVERED	LINE POWER 2500KVA TRANSFORMER	RECOVER(22-152)
RECOVERED	LINE POWER LW FACE ELECTRICS	RECOVER(22-173)
RECOVERED	SHARFF MONRAIL	RECOVER
RECOVERED	48" CONVEYOR BELT	RECOVER
RECOVERED	48" BELT STRUCTURE	RECOVER
RECOVERED	DOWTY-MECO MOBILE TAILPIECE	RECOVER(08-679)
RECOVERED	AMERICAN LW STAGELOADER	RECOVER(22-175)
RECOVERED	AMERICAN LW CRUSHER	RECOVER(22-174)
RECOVERED	SPENDRUP S/L DUST SCRUBBER	RECOVER
PENDING	VICTOR LIGHT FIXTURES	ABANDON(22-152)
RECOVERED	VICTOR POWER SUPPLIES	RECOVER
RECOVERED	COMTROL COMMUNICATIONS	RECOVER
RECOVERED	MONORAIL HYD. + H20 HOSE	RECOVER
RECOVERED	MONORAIL ELECTRICAL CABLE	RECOVER
RECOVERED	STAGELOADER CHAIN/FLIGHTS	RECOVER
RECOVERED	UNITECK FILTER STATION	RECOVER
RECOVERED	TEFFENBACH DUMP VALVE	RECOVER
RECOVERED	HG VALVES/FITTINGS	RECOVER
RECOVERED	EMULSION RETURN PUMP AND SURGE TANK	RECOVER(22-182)
RECOVERED	SECTION EMULSION PRESSURE AND RETURN PIPE	RECOVER
RECOVERED	SECTION H20 SUPPLY PIPE	RECOVER
PENDING	TG ROCKDUST PIPE	RECOVER
PENDING	WESTFALIA HEADGATE DRIVE FRAME + GRADIENT	RECOVER(22-086)
RECOVERED	HG 600 HP MOTOR	RECOVER
RECOVERED	HG VOITH 650 FLUID COUPLING	RECOVER
RECOVERED	HG JAHNEL JPL-25 GEARCASE	RECOVER
RECOVERED	HG LWA CHAIN TENSIONER	RECOVER
PENDING	AFC CHAIN/FLIGHTS	ABONDON
RECOVERED	JOY 4LS-5 SHEARER	RECOVER(22-178)
RECOVERED	JOY 4LS-5 CUTTING DRUMS + COWLS	RECOVER
PENDING	WESTFALIA TAILGATE DRIVE FRAME	ABANDON(22-123)
RECOVERED	TG 600 HP MOTOR	RECOVER
RECOVERED	TG VOITH 650 FLUID COUPLING	ABANDON
RECOVERED	TG JAHNAL KPL-25 GEARCASE	ABANDON
RECOVERED	TG LWA CHAIN TENSIONER	RECOVER
PENDING	WESTFALIA AFC PANLINE SECTIONS (144 EA.) CPL. W/ FACE AND GOB SIDE ACCESSORIES	ABANDON(22-147)
PENDING	HEMSHIEDT LW ROOF SUPPORTS (151 EA.) CLP. W/ CYLINDERS, VALVES, HOSES, FITTINGS	ABANDON(21-123)
PENDING	MISC. ELECTRIC/COMM. CABLE & HOSE [AFC CABLE TRAY; SHIELD TO SHIELD; ETC.	ABANDON
RECOVERED	MISC. SECTION EQUIPMENT/TOOLS AND SUPPLIES	RECOVER

12/11/98

PENDING = Recovery on completion of the 5th left west side longwall panel block! (August 2001)

*A Malencik's Notes of 12/8/98
*B, C Original Submission of 10/19/98