

### Document Information Form

Mine Number: C/015/018

File Name: Incoming

To: DOGM

From:

Person N/A

Company N/A

Date Sent: April 14, 1997

Explanation:

Inspection and Certified Report

cc:

File in: C/015/018, Incoming

Refer to:

- Confidential
- Shelf
- Expandable

Date \_\_\_\_\_ For additional information

10/18/97 #6

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILES OR REFUSE PILES		Page 1 of 3	
Permit Number	ACT/015/018	Report Date	3/27/97
Mine Name	Deer Creek Mine		
Company Name	Energy West Mining Co.		
Excess Spoil Pile or Refuse Pile Identification	File Name	Elk Canyon/Original Site	
	File Number		
	MSHA ID Number	1211-UT-09-0041	
Inspection Date	3/17/97		
Inspected By	John Christensen		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		1997 First Quarter Inspection	
		Attachments to Report <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
<b>Field Evaluation</b>			
<p>1. Foundation preparation, including the removal of all organic material and topsoil.</p> <p>The construction of both sites have been complete for some time in excess of 8 years. The foundations appear to be stable.</p>			
<p>2. Placement of underdrains and protective filter systems.</p> <p>None</p>			
<p>3. Installation of final surface drainage systems.</p> <p>The slopes of both sites have no rills, gullies or sloughage present.</p>			

File in:  
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Refer to Record No. 0046 Date 4-14-97  
In C/ 015, 018, Incoming  
For additional information \_\_\_\_\_

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REGISTRATION

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.

The seepage area at the base of the original site was damp at the time of the 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.

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

Signature: John Christensen Date: 4/1/97

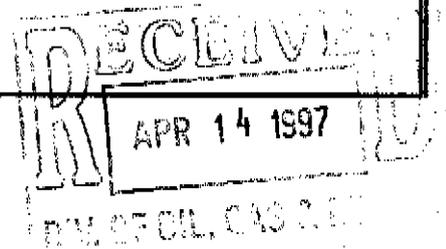
P.E. Number & State: 165651 UTAH

<b>Permit Number</b>	ACT/015/018	<b>Report Date</b>	3/26/97
<b>Mine Name</b>	Deer Creek		
<b>Company Name</b>	Energy West Mining Co.		
<b>Excess Spoil Pile or Refuse Pile Identification</b>	<b>Pile Name</b>	Waste Rock Disposal Site	
	<b>Pile Number</b>		
	<b>MSHA ID Number</b>	1211-UT-09-00121-02	
<b>Inspection Date</b>	3/17/97		
<b>Inspected By</b>	John Christensen		

<b>Reason for Inspection</b> <small>(Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)</small>	1997 First Quarter Inspection
	Attachments to Report? <input checked="" type="checkbox"/> No <input type="checkbox"/> 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.


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

The site was leveled in early January with trash and extraneous materials removed. The active lift is at approximately 50% 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.**

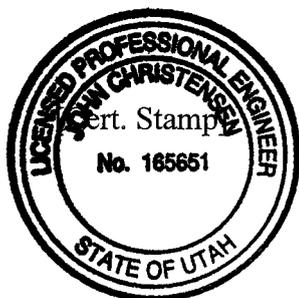
There were no signs of instability or weakness observed at the waste rock site area.

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 6342 ft. The final design elevation will be 6369 ft. The Area #1 cell is approximately 30% capacity.

The estimated volume of material hauled in 1997 to the site, as of March 1, is 2200 yards.

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.

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

Signature: John Christensen Date: 4/1/97

P.E. Number & State: 165651, UTAH