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Incoming
C/007/0005

From: "Galecki, Gregg" <GGalecki@archcoal.com>
To: <OGMCOAL@utah.gov>
CC: <jimdsmith@utah.gov>, <karlhouskeeper@utah.gov>
Date: 11/24/2008 8:27 AM
Subject: Certified Refuse Reports
Attachments: 2008 REFUSE_1st-3rd Qtr.pdf

Jim / Karl,

On Karl's recommendation, attached are the certified Refuse Pile inspections for Skyline Mine. The 4th Quarter Refuse Pile report and certified pond inspections will be conducted later this year.

Call or email if you have questions,

Gregg A. Galecki

Environmental Engineer

Skyline Mines,

Canyon Fuel Company, LLC

(435)448-2636

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INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE			
Permit Number	C/007/005	**Report Date**	October 23, 2008
Mine Name	Skyline Mines		
Company Name	Canyon Fuel Company, LLC		
Excess Spoil Pile or Refuse Pile Identification	**Pile Name**	Skyline Waste Rock Site	
	Pile Number	1211-UT-09-01566-01	
	MSHA Mine ID Number	42-01566	
Inspection Date	September 29, 2008		
Inspected By	Gregg Galecki / Carl Winters		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		Quarterly	
		Attachments to Report? ✗ No Yes	

Field Evaluation

No significant problems with the waste site were observed during the 3rd quarter 2008. Approximately 7,106 tons of waste rock material was hauled to the site during the 3rd quarter 2008. Approximately 108,471tons were removed from the site in the quarter – totaling a net removal from the pile of approximately 101,365 tons.

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

No contemporaneous reclamation was performed at the site during the quarter. The Mine continued the reallocation or removal of material from the waste rock site throughout the 3rd quarter 2008. Topsoil and/or organic material was stripped off a portion of the north side of the pile, and stockpiled in a designated area approved by the Utah Division of Oil, Gas, and Mining.

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

No underdrains are present or required at this site. Areas that are to final grade, are capped with the prescribed amount of topsoil, seeded, top-dressed with straw, then held in place with a matting material.

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

Existing surface is not at final contour. Therefore, final surface drainages have not yet been constructed. All surface runoff from the refuse pile is treated by the sediment pond. No water is allowed to impound on the pile. Runoff from the main access road below the sediment pond is treated by straw bale and silt fence dikes. The sediment pond was cleaned of sediment in August 2007.

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

Approximately 7,106 tons of waste rock was shipped to the site from the Mine during the quarter. Removal of material from the site continued in the 3rd Quarter 2008. Approximately 108,471 tons were removed from the pile, while the 7,106 tons were added to the pile – representing a net removal of approximately 101,365 tons from the site. The removal of material includes screening off over-sized material prior to shipment from the site. This screened material will be stockpiled for final placement into the pile at a later date. This material will be re-worked, placed in lifts, and compacted in place using a tracked dozer or sheeps-foot roller or another method to insure final stabilization. Approximately 3,438 tons (estimated ~3%) of screened oversized material has been generated in 2008 for final placement in the refuse pile. Proper compaction will take place when sufficient room and material are available. Assuming working of the site will cease during the winter months, temporary placement of materials and drainage will be secured prior to shut-down.

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE

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

When the waste rock is placed permanently, contemporaneous reclamation of the waste rock pile will take place as the site is backfilled. The backfill slopes are built to 1 1/2h:1v or less and seeded as described in the final reclamation plan. The seed mix specified in the Reclamation Plan is planted after the placement of topsoil.

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

No obvious instability or structural weakness was noted during the 3rd quarter 2008 inspection. No signs of slumping or heating were observed. The highwall that is reappearing due to the removal of material will be monitored to ensure no loose coal or rock is retained on the highwall.

The sedimentation pond contained minor water at the time of the inspection.

No hazardous conditions were observed at the time of the inspection.

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.**

Historic records indicated the total storage capacity was approximately 334,125 tons. An application to expand the size of the refuse pile was approved February 29, 2008. A portion of the expansion area has been used for topsoil storage. Beginning in June, material from the site was re-allocated and sold as high ash coal. Approximately 108,471 tons of material were hauled from the site during the 3rd Quarter 2008. However, during the quarter approximately 7,106 tons were also sent to the refuse pile from the mine – creating a net reduction in the refuse pile of approximately 101,365 tons during the quarter. A net total of 114,265 tons of material has been removed from the site in 2008. Approximately 3,438 tons (~3%) of screened oversized material has been generated for final placement in the refuse pile.

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, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

REGISTERED PROFESSIONAL ENGINEER
Cert. Stamp
CARL W WINTERS
NO. 22 157858-2202
STATE OF UTAH

By: Carl W. Winters, Engineering Manager

(Full Name and Title)

Signature: **Date:** November 11, 2008

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE			
Permit Number	C/007/005	**Report Date**	July 21, 2008
Mine Name	Skyline Mines		
Company Name	Canyon Fuel Company, LLC		
Excess Spoil Pile or Refuse Pile Identification	**Pile Name**	Skyline Waste Rock Site	
	Pile Number	1211-UT-09-01566-01	
	MSHA Mine ID Number	42-01566	
Inspection Date	June 25, 2008		
Inspected By	Gregg Galecki / Carl Winters		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		Quarterly	
		Attachments to Report? ✗ No Yes	

Field Evaluation

No significant problems with the waste site were observed during the 2nd quarter 2008. No waste rock material was hauled to the site during the 2nd quarter 2008. Approximately 12,900 tons were removed from the site in the quarter.

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

No Waste Rock was hauled to the site during the quarter. No contemporaneous reclamation was performed at the site during the quarter. The Mine initiated a reallocation or removal of material from the waste rock site late in the 2nd quarter 2008. No topsoil or organic material was removed for this activity – work was limited to the currently disturbed area until a new Topsoil Stockpile location was approved by UDOGM.

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

No underdrains are present or required at this site. Areas that are to final grade, are capped with the prescribed amount of topsoil, seeded, top-dressed with straw, then held in place with a matting material.

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

Existing surface is not at final contour. Therefore, final surface drainages have not yet been constructed. All surface runoff from the refuse pile is treated by the sediment pond. Runoff from the main access road below the sediment pond is treated by straw bale and silt fence dikes. The sediment pond was cleaned of sediment in August 2007.

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

No material was hauled to the site during the 2nd quarter 2008. A removal of material was initiated late in the 2nd Quarter 2008 – removing approximately 12,900 tons from the site. The removal of material includes screening off over-sized material prior to shipment from the site. This screened material will be stockpiled for final placement into the pile at a later date. Proper compaction will take place later in 2008. The waste rock will be re-worked, placed in lifts of 24-inches or less, and compacted in place using a tracked dozer and sheeps-foot roller.

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

When the waste rock is placed permanently, contemporaneous reclamation of the waste rock pile will take place as the site is backfilled. The backfill slopes are built to 1 1/2h:1v or less and seeded as described in the final reclamation plan. The seed mix specified in the Reclamation Plan is planted after the placement of topsoil.

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE

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

No obvious instability or structural weakness was noted during the 2nd quarter 2008 inspection. No signs of slumping or heating were observed. There were no signs of significant concentration sediment runoff due to Spring melting.

The sedimentation pond contained minor water at the time of the inspection.

No hazardous conditions were observed at the time of the inspection.

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.**

Historic records indicated the total storage capacity was approximately 334,125 tons. An application to expand the size of the refuse pile was approved February 29, 2008. Beginning in June, material from the site was re-allocated and sold as high ash coal. Approximately 12,900 tons of material was hauled from the site during the 2nd Quarter 2008.

Certification Statement

REGISTERED PROFESSIONAL ENGINEER
[Cert Stamp]
W
WINTERS
NO 22 157958 2202
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, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: Carl W. Winters, Engineering Manager

(Full Name and Title)

Signature: **Date:** July 21, 2008

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE			
Permit Number	C/007/005	**Report Date**	March 28, 2008
Mine Name	Skyline Mines		
Company Name	Canyon Fuel Company, LLC		
Excess Spoil Pile or Refuse Pile Identification	**Pile Name**	Skyline Waste Rock Site	
	Pile Number	1211-UT-09-01566-01	
	MSHA Mine ID Number	42-01566	
Inspection Date	March 18, 2008		
Inspected By	Gregg Galecki		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		Quarterly	
		Attachments to Report? No ✗ Yes	

Field Evaluation

No significant problems with the waste site were observed during the 1st quarter 2008. Approximately 2,947 tons of waste rock material was hauled to the site during the 1st quarter 2008.

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

Waste Rock that was hauled to the site during the quarter was temporarily placed in 3-4 foot layers to be properly compacted later in 2008. No contemporaneous reclamation was performed at the site during the quarter; only regular maintenance was performed. No topsoil/substitute topsoil piles remain on site – all the material has been used.

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

No underdrains are present or required at this site. Areas that are to final grade, are capped with the prescribed amount of topsoil, seeded, top-dressed with straw, then held in place with a matting material.

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

Existing surface is not at final contour. Therefore, final surface drainages have not yet been constructed. All surface runoff from the refuse pile is treated by the sediment pond. Runoff from the main access road below the sediment pond is treated by straw bale dikes. The sediment pond was cleaned of sediment in August 2007.

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

Material that was hauled to the site during the 1st quarter 2008 was placed in temporary 3-4 foot layers. Proper compaction will take place in 2008 following natural minor percolation of the snowpack, and drying of the material. The waste rock will be re-worked, and placed in lifts of 24-inches or less and compacted in place using a tracked dozer and sheeps-foot roller.

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

Contemporaneous reclamation of the waste rock pile is taking place as the site is backfilled with waste rock. The backfill slopes are built to 1 1/2h:1v or less and seeded as described in the final reclamation plan. The seed mix specified in the Reclamation Plan is planted after the placement of topsoil.

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE

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

No obvious instability or structural weakness was noted during the 1st quarter 2008 inspection. The entire site was snow-covered – see attached photos. No signs of slumping or heating were observed. There were no signs of significant melting or concentration of runoff.

The sedimentation pond was snow covered and contained no water at the time of the inspection.

No hazardous conditions were observed at the time of the inspection.

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.**

Historic records indicated the total storage capacity was approximately 334,125 tons. The Waste Rock area was surveyed with a total station during September 2005, determining that the north toe of the pile could be extended under the current permit to accommodate additional storage. The pile was resurveyed again in December 2006. The 2006 survey estimates approximately 25,000 to 30,000 tons of capacity remain at the site. During the quarter, approximately 2,947 tons of material was hauled to the site. An application to expand the size of the refuse pile was approved February 29, 2008.

Certification Statement

REGISTERED PROFESSIONAL ENGINEER
CARL
[Cert Stamp]
WINTERS
NO. 22 157868-2202
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, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: Carl W. Winters, Engineering Manager

(Full Name and Title)

Signature: **Date:** March 28, 2008