

**2008 ANNUAL REPORT  
TO THE  
UTAH DIVISION OF OIL, GAS AND MINING**

**DUGOUT CANYON MINE  
C/007/039**

Canyon Fuel Company, LLC  
P.O. Box 1029  
Wellington, UT 84542

File in:

Confidential

Shelf

Expandable

Refer to Record No.

Date

In C/007/0039, 2009, Incoming

For additional information

*Confidential*

*0027* *05052009*

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TO THE  
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Canyon Fuel Company, LLC  
P.O. Box 1029  
Wellington, UT 84542

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*Confidential*

Refer to Record No. 0027 Date 05052009

In C 0070039 2007 *Information*

**Canyon Fuel Company, LLC**  
**Dugout Canyon Mine**  
P.O. Box 1029  
Wellington, Utah 84542

**COPY**



May 5, 2009

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

RE: 2008 Annual Report for Dugout Canyon Mine, C/007/039

To Whom It May Concern:

Enclosed please find two copies of the Annual Report for 2008 for the Dugout Canyon Mine. In addition a copy has been delivered to the Price Field Office.

Upon review of the "commitment and conditions" section on the 2008 Annual Report Form, we have determined that certain commitments do not represent what is in the M&RP. We believe a review of the commitments is needed to determine what is to be included in the annual reports in the future.

Should you have any questions concerning this submittal, please contact me at (435) 636-2869.

Sincerely yours,

A handwritten signature in black ink that reads "Vicky S. Miller". The signature is written in a cursive, flowing style.

Vicky S. Miller

enclosures

cc: Chris Hansen (letter only)  
Dave Spillman (enclosures)  
Price Field Office, Steve Demczak (enclosures)

RECEIVED

MAY 07 2009

DIV. OF OIL, GAS & MINING

This Annual Report shows information the Division has for your mine. Please review the information to see if it is current. If the information needs to be updated please do so in this document. At the end of each section the operator is asked to verify if the information is correct. Please answer these questions and make all comments on this document. Submit the completed document and any additional information identified in the Appendicies to the Division by April 30, 2009. During a complete inspection an inspector will check and verify the information. To enter text, click in the cell and type your response. You can use the tab key to move from one field to the next. To enter an X in a box, click next to the box, right click, and select properties, then the checked circle, then hit enter, or hit the unchecked circle if the X is to be removed.

## GENERAL INFORMATION

Permittee Name	Canyon Fuel Company, LLC
Mine Name	<b>Dugout Canyon Mine</b>
Operator Name (If other then Permittee)	NA
Permit Expiration Date	March 16, 2013
Permit Number	C/007/0039
Authorized Representative Title	Erwin Sass, General Manager
Phone Number	(435) 637-6360
Fax Number	(435) 636-2897
E-mail Address	esass@archcoal.com
Mailing Address	P.O.Box 1029, Wellington, Utah 84542
Designated Representative	
Resident Agent	C.T. Corporation Systems
Resident Agent Mailing Address	50 West Broadway, Salt Lake City, Utah 84101
Number of Binders Submitted	(1) Binder, Two Copies

Operator, please update any incorrect information.

## IDENTIFICATION OF OTHER PERMITS

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

Permit Type	ID Number	Description	Expiration Date
MSHA Mine ID(s)	42-01890	Rock Canyon Seam	N/A
	42-01888	Gilson Seam	N/A
MSHA Impoundment(s)	N/A		
NPDES/UPDES Permit(s)	UT0025593	UPDES Discharge Permit and Storm Water Discharge Permit	November 20, 2009
PSD Permit(s) (Air)	DAQE-001-1999	Air Quality Permit	N/A
<b>Other</b>			
MSHA Mine ID(s)	1211-UT-09-01890-01	Refuse Pile	N/A

Operator, please update any incorrect information.

**CERTIFIED REPORTS**

List the certified inspection reports as required by the rules and under the approved plan that must be periodically submitted to the Division. Specify whether the information is included as Appendix A to this report or currently on file with the Division.

Certified Reports:	Required		Included or Included	DOG M file location Vol, Chapter, Page
	Yes	No		
Excess Spoil Piles	<input type="checkbox"/>	X	<input type="checkbox"/>	
Refuse Piles	X	<input type="checkbox"/>	X	
Impoundments	X	<input type="checkbox"/>	X	
<b>Other</b>				
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**Operator Comments:**

**Inspector:**

Has the operator complied with this section? Yes  No

**Inspector Comments:**

**COMMITMENTS AND CONDITIONS**

The Permittee is responsible for ensuring annual technical commitments in the MRP and conditions accepted with the permit are completed throughout the year. The Division has identified these commitments below and has provided space for you to report what you have done during the past year for each commitment. If the particular section is blank, no commitment has been identified and no response is required for this report. If additional written response is required, it should be filed under Appendix B to this report.

Admin R645-301-100
Soils R645-301-200
Biology R645-301-300

**Title: RAPTOR SURVEYS.**

**Objective:** Obtain data prior to mining disturbances. Conduct follow-up surveys within one year if nests were observed during the baseline surveys and if operations resulted in subsidence.

**Frequency:** Annually.

**Status:** On going.

**Reports:** Annual Report.

**Citation:** Annual Reports. Citation: Vol. Chap 3, Sec. 322, p. 3-13.

**Operator:** Has this commitment been acted on this year?

Yes  No  Not required this year. If yes, comment;

**Operator Comments:**

Survey data sheet Included in Appendix B, a map can be reviewed in the Confidential Folder.

**Inspector:**

Has the operator complied with this commitment? Yes  No

**Inspector Comments:**

Landuse, Cultural Resources, Air Quality R645-301- 400

Engineering R645-301-500

**Title: SUBSIDENCE MONITORING VISUAL INSPECTIONS.**

**Objective:** Check for surface subsidence features.

**Frequency:** Annually.

**Status:** On going.

**Reports:** Annual Report.

**Citation:** 525.100 (Subsidence Monitoring)

**Operator:** Has this commitment been acted on this year?

Yes  No  Not required this year. If yes, comment;

**Operator Comments:**

Included in Appendix B

**Inspector:**

Has the operator complied with this commitment? Yes  No

**Inspector Comments:**

**Title: WASTE ROCK SAMPLING.**

**Objective:** Protection of ground and surface water and potentially substantiate lesser cover at the waste rock site.

**Frequency:** One sample per 5,000 cu yds taken to the waste rock site.

**Status:** Material stored at the mine site for a "short period of time"

**Reports:** To be submitted with the annual report (\*and to be included in RA Attachment 5-4).

**Citation:** Chap. 5, Sec. 513.400., Sec. 528.300, Sec. 536 and Refuse Pile Amendment Volume Section 536.

**Operator:** Has this commitment been acted on this year?

Yes  No  Not required this year. If yes, comment;

**Operator Comments:**

See Attachment 5-4 and Appendix E of Annual Report

**Inspector:**

Has the operator complied with this commitment? Yes  No

**Inspector Comments:**

Geology R645-301-600

Hydrology R645-301-700

Bonding & Insurance R645-301-800

Other Commitments


\*Reminder: If equipment has been abandoned during 2008, an amendment must be submitted that includes a map showing its location, a description of what was abandoned, whether there were any hazardous or toxic materials and any revision to the PHC as necessary.

**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 report or currently on file with the Division.

**Operator Comments:**

Snotel Report, located in Appendix B

**Inspector:**

Has the operator complied with this section? Yes  No

**Inspector Comments**

**LEGAL, FINANCIAL, COMPLIANCE AND RELATED INFORMATION**

Change 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. Please 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 change 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 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 the report.

Legal / Financial Update	Required		Included or Included	DOGM File location Vol, Chapter, Page	Comments
	Yes	No			

Department of Commerce, Annual Report Officers	X	<input type="checkbox"/>		General Chapter 1, Appendix 1-1	
Other					
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

**Operator Comments:**

**Inspector:**

Has the operator complied with this section? Yes  No

**Inspector Comments:**

**MAPS**

Copies of mine maps, current and up-to-date through at least December 31, 2008, are to be provided to the Division as Appendix D to this report in accordance with the requirements of R 645-301-525.240. The map copies shall be made in accordance with 30 CFR 75.1200 as required by MSHA. Mine maps are not considered confidential. (Please provide a CD.)

Confidential information is limited to:

R645-300-124.310. Information that pertains only to the analysis of the chemical and physical properties of the coal to be mined, except information on components of such coal which are potentially toxic in the environment.

R645-300-124.330. Information on the nature and location of archeological resources on public land and Indian land as required under the Archeological Resources Protection Act of 1979 (P. L. 96-95, 93 Stat. 721, 16 U.S.C. 470).

R645-301-322, Fish and Wildlife Information; R645-301-322.100, the scope and level of detail for such information will be determined by the Division in consultation with state and federal agencies with responsibilities for fish and wildlife and will be sufficient to design the protection and enhancement plan required under R645-301-333 and R645-301-322.230, other species or habitats identified through agency consultation as requiring special protection under state or federal law; R645-301-333.300, Include protective measures that will be used during the active mining phase of operation.

The Division will provide procedures, including notice and opportunity to be heard for persons both seeking and opposing disclosure.

**Map Number(s)                      Map Title/ Description**

		Confidential	
		Yes	No
Annual subsidence map	Subsidence Report 2008	<input type="checkbox"/>	X
Mine map(s)	Gilson Seam 2009 Budget Map	<input type="checkbox"/>	X
	Rock Canyon Seam 2009 Budget Map	<input type="checkbox"/>	X
		<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>
Other maps		<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>

**Operator Comments:**

**Inspector:**

Has the operator complied with this section? Yes  No

**Inspector Comments:**

**OTHER INFORMATION**

Please provide any comments of further information to be included as part of the Annual Report. Any other attachments are to be provided as Appendix E to this report. If information is submitted as a group rather than by individual mine, please identify each of the mine's data in the list below.

**Additional attachment to this report?                      Yes X                      No**

Waste Rock Sample Analysis

**Operator Comments:**

**Inspector:**

Has the operator complied with this section? Yes  No

**Inspector Comments:**

**APPENDIX A**

**Certified Reports**

Excess Spoil Piles  
Refuse Piles  
Impoundments

As required under R645-301-514

**CONTENTS**

**Refuse Pile Reports**  
**Impoundment Reports**

To enter text, click in the box and type your response. If a box already contains an entry select the entry and type the replacement. You can use the **tab** key to move from one field to the next. To select a check box, click in the box or type an **x**.

**GENERAL INFORMATION**

Report Date April 11, 2008  
Permit Number C/007/039  
Company Name Canyon Fuel Company, LLC - Dugout Canyon Mine

**EXCESS SPOIL PILE OR REFUSE PILE IDENTIFICATION**

Pile Name Dugout Canyon Mine Refuse Pile  
Pile Number 1211-UT-09-01890-01  
MSHA ID Number 42-01890

Inspection Date March 28, 2008  
Inspected By David G. Spillman  
Reason for Inspection Quarterly Inspection & Certification

Attachment to Report? Yes  No

**Field Evaluation**

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

The foundation preparation was found to be in accordance with the approved plan.

2. Placement of underdrains and protective filter systems.

N/A

3. Installation of final surface drainage systems

All necessary drainage systems were constructed, functional and well established at the time of the inspection.

4. Placement and compaction of fill materials

At the time of the inspection, approximately 113,729 tons of refuse had been hauled into the facility from the preparation plant at SCT. Placement and compaction of this refuse appears to have been completed in accordance with the approved plan.

5. Final grading and revegetation of fill.

N/A

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

There was no appearance of instability, structural weakness or other hazardous conditions observed during this 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

**CERTIFICATION STATEMENT**

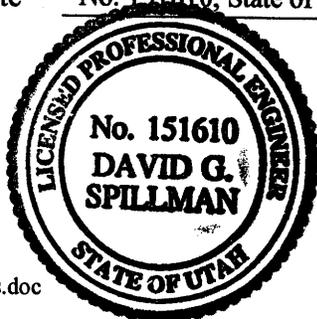
I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure has been maintained in accordance with the 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 David G. Spillman, Technical Services Manager  
*Full Name and Title*

Signature David G. Spillman Date 4/11/08

P.E. Number and State No. 151610, State of Utah

[Cert. Stamp]



**INSPECTION AND CERTIFIED REPORT ON  
EXCESS SPOIL PILE OR REFUSE PILE**

*To enter text, click in the box and type your response. If a box already contains an entry select the entry and type the replacement. You can use the **tab** key to move from one field to the next. To select a check box, click in the box or type an x.*

**GENERAL INFORMATION**

Report Date September 2, 2008  
Permit Number C/007/039  
Company Name Canyon Fuel Company, LLC - Dugout Canyon Mine

**EXCESS SPOIL PILE OR REFUSE PILE IDENTIFICATION**

Pile Name Dugout Canyon Mine Refuse Pile  
Pile Number 1211-UT-09-01890-01  
MSHA ID Number 42-01890

Inspection Date June 7, 2008  
Inspected By David G. Spillman  
Reason for Inspection Quarterly Inspection & Certification

Attachment to Report?    Yes     No

**Field Evaluation**

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

The foundation preparation was found to be in accordance with the approved plan.

2. Placement of underdrains and protective filter systems.

N/A

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

All necessary drainage systems were constructed, functional and well established at the time of the inspection.

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

At the time of the inspection, approximately 125,298 tons of refuse had been hauled into the facility from the preparation plant at SCT (as per Jared Noyes). Placement and compaction of this refuse appears to have been completed in accordance with the approved plan.

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

N/A

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

There was no appearance of instability, structural weakness or other hazardous conditions observed during this 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

**CERTIFICATION STATEMENT**

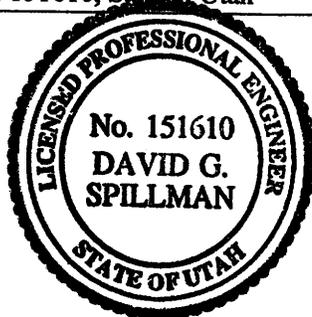
I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure has been maintained in accordance with the 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 David G. Spillman, Technical Services Manager  
*Full Name and Title*

Signature David Spillman Date 9/2/08

P.E. Number and State No. 151610, State of Utah

[Cert. Stamp]



**INSPECTION AND CERTIFIED REPORT ON  
EXCESS SPOIL PILE OR REFUSE PILE**

To enter text, click in the box and type your response. If a box already contains an entry select the entry and type the replacement. You can use the tab key to move from one field to the next. To select a check box, click in the box or type an x.

**GENERAL INFORMATION**

Report Date October 8, 2008  
Permit Number C/007/039  
Company Name Canyon Fuel Company, LLC - Dugout Canyon Mine

**EXCESS SPOIL PILE OR REFUSE PILE IDENTIFICATION**

Pile Name Dugout Canyon Mine Refuse Pile  
Pile Number 1211-UT-09-01890-01  
MSHA ID Number 42-01890

Inspection Date September 21, 2008  
Inspected By David G. Spillman  
Reason for Inspection Quarterly Inspection & Certification

Attachment to Report?    Yes     No

**Field Evaluation**

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

The foundation preparation was found to be in accordance with the approved plan.

2. Placement of underdrains and protective filter systems.

N/A

3. Installation of final surface drainage systems

All necessary drainage systems were constructed, functional and well established at the time of the inspection.

4. Placement and compaction of fill materials

At the time of the inspection, approximately 165,142 tons of refuse had been hauled into the facility from the preparation plant at SCT (as per Jared Noyes). Placement and compaction of this refuse appears to have been completed in accordance with the approved plan.

5. Final grading and revegetation of fill.

N/A

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

There was no appearance of instability, structural weakness or other hazardous conditions observed during this 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

**CERTIFICATION STATEMENT**

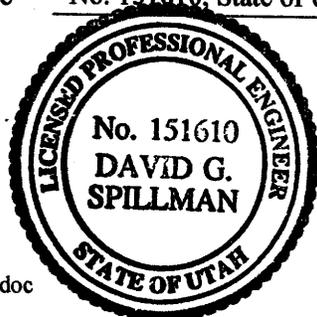
I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure has been maintained in accordance with the 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 David G. Spillman, Technical Services Manager  
*Full Name and Title*

Signature *David Spillman* Date 10/8/08

P.E. Number and State No. 151610, State of Utah

[Cert. Stamp]



To enter text, click in the box and type your response. If a box already contains an entry select the entry and type the replacement. You can use the **tab** key to move from one field to the next. To select a check box, click in the box or type an **x**.

**GENERAL INFORMATION**

Report Date December 16, 2008  
Permit Number C/007/039  
Company Name Canyon Fuel Company, LLC - Dugout Canyon Mine

**EXCESS SPOIL PILE OR REFUSE PILE IDENTIFICATION**

Pile Name Dugout Canyon Mine Refuse Pile  
Pile Number 1211-UT-09-01890-01  
MSHA ID Number 42-01890

Inspection Date November 15, 2008  
Inspected By David G. Spillman  
Reason for Inspection Quarterly Inspection & Certification

Attachment to Report? Yes  No

**Field Evaluation**

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

The foundation preparation was found to be in accordance with the approved plan.

2. Placement of underdrains and protective filter systems.

N/A

3. Installation of final surface drainage systems

All necessary drainage systems were constructed, functional and well established at the time of the inspection.

4. Placement and compaction of fill materials

At the time of the inspection, approximately 181,673 tons of refuse had been hauled into the facility from the preparation plant at SCT (as per Jared Noyes). Placement and compaction of this refuse appears to have been completed in accordance with the approved plan.

5. Final grading and revegetation of fill.

N/A

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

There was no appearance of instability, structural weakness or other hazardous conditions observed during this 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

**CERTIFICATION STATEMENT**

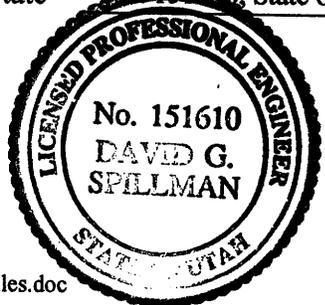
I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure has been maintained in accordance with the 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 David G. Spillman, Technical Services Manager  
*Full Name and Title*

Signature *David G. Spillman* Date 12/16/08

P.E. Number and State No. 151610, State of Utah

[Cert. Stamp]



**IMPOUNDMENT INSPECTION AND CERTIFIED REPORT**

Permit Number	C/007/039	Report Date	4/1/08
Mine Name	Dugout Canyon Mine		
Company Name	Canyon Fuel Company, LLC		
Impoundment Identification	Impoundment Name	Surface Facility Sedimentation Pond	
	Impoundment Number	None	
	UPDES Permit Number	UT0025593	
	MSHA ID Number	Impoundment - None (Mine - 42-01890)	

**IMPOUNDMENT INSPECTION**

Inspected On	3/18/08
Inspected By	Vicky Miller
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Routine Quarterly Inspection

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

*There were no signs of instability, structural weakness or other hazardous conditions observed during this inspection. Pond levels have fluctuated with snow/rain storm runoff during the quarter. Pond frozen.*

<b>Required for an impoundment which functions as a SEDIMENTATION POND.</b>	<b>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.</b>  <i>Sediment Storage Capacity (as designed) - 100% = 0.40 acre-feet @ an elevation of 6,954.4 feet                  - 60% = 0.24 acre-feet @ an elevation of 6,952.2 feet                   Sediment accumulation estimated at 22%, because sediment is covered by water. A noticeable accumulation of sediment from the discharge pipe on the upper end of the pond.</i>
	<b>3. Principle and emergency spillway elevations.</b>  <i>Principal Spillway Elevation (as designed) - 6,964.0 feet                  Emergency Spillway Elevation (as designed) - 6,964.5 feet</i>

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

No discharge from the pond during the first quarter of 2008. Pond has a layer of ice covering it.

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.

Refer to comment in No.2 and 4.

**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: Victory S. Miller Date: 4/1/08

**CERTIFIED REPORT**

**IMPOUNDMENT EVALUATION (If NO, explain under Comments)**

	YES	NO
1. Is impoundment designed and constructed in accordance with the approved plan?	X	
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**

*The construction of the Dugout Canyon Mine sedimentation pond is believed to be in accordance with the approved plan. This is based on the as-built design details as surveyed by Johansen and Tuttle Engineering Inc., Blackhawk Engineering Inc. and the Dugout Engineering staff.*

**Certification Statement:**

[PE Cert. Stamp]

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.

By: \_\_\_\_\_  
(Full Name and Title)

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

P.E. Number & State: \_\_\_\_\_

**IMPOUNDMENT INSPECTION AND CERTIFIED REPORT**

Permit Number	C/007/039	Report Date	7/2/08
Mine Name	Dugout Canyon Mine		
Company Name	Canyon Fuel Company, LLC		
Impoundment Identification	Impoundment Name	Surface Facility Sedimentation Pond	
	Impoundment Number	None	
	UPDES Permit Number	UT0025593	
	MSHA ID Number	Impoundment - None (Mine - 42-01890)	

**IMPOUNDMENT INSPECTION**

	5/30/08
Inspected By	Vicky Miller
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Routine Quarterly Inspection

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

*There were no signs of instability, structural weakness or other hazardous conditions observed during this inspection.*

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.
	<p><i>Sediment Storage Capacity (as designed) - 100% = 0.40 acre-feet @ an elevation of 6,954.4 feet</i></p> <p><i>- 60% = 0.24 acre-feet @ an elevation of 6,952.2 feet</i></p> <p><i>A noticeable accumulation of sediment from the discharge pipe on the upper end of the pond. Sediment cleanout will be required soon, sediment storage capacity is estimated to be approximately 8% below the 60% cleanout level.</i></p>
	3. Principle and emergency spillway elevations.
	<p><i>Principal Spillway Elevation (as designed) - 6,964.0 feet</i></p> <p><i>Emergency Spillway Elevation (as designed) - 6,964.5 feet</i></p>

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

No discharge from the pond during the second quarter of 2008.

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.

*Refer to comment in No.2 and 4.*

**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: Verby A Miller Date: 7/2/08

**CERTIFIED REPORT**

**IMPOUNDMENT EVALUATION (If NO, explain under Comments)**

	YES	NO
1. Is impoundment designed and constructed in accordance with the approved plan?	X	
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**

*The construction of the Dugout Canyon Mine sedimentation pond is believed to be in accordance with the approved plan. This is based on the as-built design details as surveyed by Johansen and Tuttle Engineering Inc., Blackhawk Engineering Inc. and the Dugout Engineering staff.*

**Certification Statement:**

[PE Cert. Stamp]

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.

By: \_\_\_\_\_  
(Full Name and Title)

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

P.E. Number & State: \_\_\_\_\_

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of 3	
Permit Number	ACT/007/039	Report Date	09/02/08
Mine Name	Dugout Canyon Mine		
Company Name	Canyon Fuel Company, LLC		
Impoundment Identification	Impoundment Name	Surface Facility Sedimentation Pond	
	Impoundment Number	None	
	UPDES Permit Number	UT0025593	
	MSHA ID Number	Impoundment - None (Mine - 42-01890)	
<b>IMPOUNDMENT INSPECTION</b>			
Inspection Date	08/04/08		
Inspected By	Dave Spillman		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Routine Quarterly Inspection and Annual Certification		
<p><b>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</b></p> <p><i>There were no signs of instability, structural weakness or other hazardous conditions observed during this inspection.</i></p>			
<b>Required for an impoundment which functions as a SEDIMENTATION POND.</b>	<p><b>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.</b></p> <p><i>Sediment Storage Capacity - 100% = 0.34 acre-feet @ an elevation of 6,953.56 feet</i></p> <p><i>- 60% = 0.20 acre-feet @ an elevation of 6,951.66 feet</i></p>		
	<p><b>3. Principle and emergency spillway elevations.</b></p> <p><i>Principal Spillway Elevation - 6,964.44 feet</i></p> <p><i>Emergency Spillway Elevation - 6,964.5 feet</i></p>		
<p><b>4. Field Information.</b> Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on out slopes of embankments, etc.</p> <p><i>Nielson Construction was contracted to clean the sediment accumulation out of the Dugout Canyon Mine sedimentation pond. Cleanout operations were conducted from July 28<sup>th</sup> through August 4<sup>th</sup>. Nielson Construction also cleaned the pond in 2003, 2004, 2006 and 2007. Following the 2003 cleanout, Johansen and Tuttle Engineering, Inc., was contracted to survey the as-built details of the sedimentation pond. The as-built details of the pond were subsequently submitted to DOGM in September 2003 and were approved by DOGM in October 2003.</i></p> <p><i>During the 2003 cleanout, it was observed that the original pond was excavated to a point where the bottom was solid and substantial. This bottom is easily recognizable during cleaning operations. Given the fact that the pond volume was surveyed and well documented in 2003, no additional surveying was recommended following the 2004, 2006, 2007 and 2008 cleanout. During the 2008 cleanout, it was observed that Nielson Construction cleaned sediment down to the same solid bottom.</i></p>			

**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.

**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: \_\_\_\_\_

**CERTIFIED REPORT**

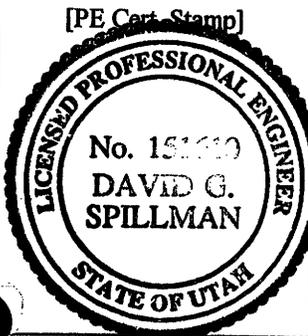
**IMPOUNDMENT EVALUATION (If NO, explain under Comments)**

	YES	NO
1. Is impoundment designed and constructed in accordance with the approved plan?	X	
Is impoundment free of instability, structural weakness, or any other hazardous condition?	X	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	X	

**COMMENTS AND OTHER INFORMATION**

**Certification Statement:**

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.



By: David G. Spillman, Technical Services Manager  
(Full Name and Title)

Signature: *David G. Spillman* Date: 9/02/08

P.E. Number & State: No. 151610, State of Utah

**IMPOUNDMENT INSPECTION AND CERTIFIED REPORT**

Permit Number	C/007/039	Report Date	8/26/08
Mine Name	Dugout Canyon Mine		
Company Name	Canyon Fuel Company, LLC		
Impoundment Identification	Impoundment Name	Surface Facility Sedimentation Pond	
	Impoundment Number	None	
	UPDES Permit Number	UT0025593	
	MSHA ID Number	Impoundment - None (Mine - 42-01890)	

**IMPOUNDMENT INSPECTION**

	8/12/08
Inspected By	Vicky Miller
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Routine Quarterly Inspection

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

*There were no signs of instability, structural weakness or other hazardous conditions observed during this inspection.*

Required for an impoundment which functions as a SEDIMENTATION POND.	<p>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.</p> <p><i>Sediment Storage Capacity (as designed) - 100% = 0.40 acre-feet @ an elevation of 6,954.4 feet</i>  <i>- 60% = 0.24 acre-feet @ an elevation of 6,952.2 feet</i></p> <p><i>Pond was cleaned the later part of July and completed the first week of August. Sediment storage capacity should be at 100%.</i></p>
	<p>3. Principle and emergency spillway elevations.</p> <p><i>Principal Spillway Elevation (as designed) - 6,964.0 feet</i>  <i>Emergency Spillway Elevation (as designed) - 6,964.5 feet</i></p>

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

*The pond discharged during July to facilitate the cleaning.*

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.

*Refer to comment in No.2 and 4.*

**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: Ucky S Meller Date: 8-26-08

**CERTIFIED REPORT**

**IMPOUNDMENT EVALUATION (If NO, explain under Comments)**

	YES	NO
1. Is impoundment designed and constructed in accordance with the approved plan?	X	
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**

*The construction of the Dugout Canyon Mine sedimentation pond is believed to be in accordance with the approved plan. This is based on the as-built design details as surveyed by Johansen and Tuttle Engineering Inc., Blackhawk Engineering Inc. and the Dugout Engineering staff.*

**Certification Statement:**

[PE Cert. Stamp]

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.

By: \_\_\_\_\_  
(Full Name and Title)

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

P.E. Number & State: \_\_\_\_\_

**IMPOUNDMENT INSPECTION AND CERTIFIED REPORT**

Permit Number	C/007/039	Report Date	12/12/08
Mine Name	Dugout Canyon Mine		
Company Name	Canyon Fuel Company, LLC		
Impoundment Identification	Impoundment Name	Surface Facility Sedimentation Pond	
	Impoundment Number	None	
	UPDES Permit Number	UT0025593	
	MSHA ID Number	Impoundment - None (Mine - 42-01890)	

**IMPOUNDMENT INSPECTION**

Inspected By	Vicky Miller 11/25/08
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Routine Quarterly Inspection

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

*There were no signs of instability, structural weakness or other hazardous conditions observed during this inspection.*

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.

*Sediment Storage Capacity (as designed) - 100% = 0.40 acre-feet @ an elevation of 6,954.4 feet  
 - 60% = 0.24 acre-feet @ an elevation of 6,952.2 feet  
 Sediment storage capacity should be at or near 95%.*

3. Principle and emergency spillway elevations.

*Principal Spillway Elevation (as designed) - 6,964.0 feet  
 Emergency Spillway Elevation (as designed) - 6,964.5 feet*

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

*The pond discharged during July to facilitate the cleaning and a sample was taken, analyzed and reported on the Dugout DMR's. The pond did not discharge in August through November 2008. The pond slopes and rim were cleared of wind blown trash during the 4<sup>th</sup> quarter. The sediment trap, sediment basin and ditches reporting to the sediment pond are cleaned regularly.*

**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.

*Refer to comment in No. 2 and 4.*

**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: Verly A Miller Date: 12/12/08

**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**

*The construction of the Dugout Canyon Mine sedimentation pond is believed to be in accordance with the approved plan. This is based on the as-built design details as surveyed by Johansen and Tuttle Engineering Inc., Blackhawk Engineering Inc. and the Dugout Engineering staff.*

**Certification Statement:**

[PE Cert. Stamp]

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.

By: \_\_\_\_\_  
(Full Name and Title)

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

P.E. Number & State: \_\_\_\_\_

**IMPOUNDMENT INSPECTION AND CERTIFIED REPORT**

Permit Number	C/007/039	Report Date	4/1/08
Mine Name	Dugout Canyon Mine		
Company Name	Canyon Fuel Company, LLC		
Impoundment Identification	Impoundment Name	Waste Rock Sedimentation Pond	
	Impoundment Number	None	
	UPDES Permit Number	UT0025593	
	MSHA ID Number	Impoundment - None (Mine - 42-01890)	

**IMPOUNDMENT INSPECTION**

Inspection Date	3/18/08
Inspected By	Vicky Miller
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Routine Quarterly Inspection

**1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.**  
*There were no signs of instability, structural weakness or other hazardous conditions observed during this inspection*

Required for an impoundment which functions as a SEDIMENTATION POND.	<p><b>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.</b></p> <p><i>Sediment Storage Capacity (as designed) - 100% = 0.78 acre-feet @ an elevation of 5895.9 feet</i>  <i>- 60% = 0.47 acre-feet @ an elevation of 5894.7 feet</i></p> <p>Approximately 50% of the sediment storage capacity is currently available in the pond.</p>
	<p><b>3. Principle and emergency spillway elevations.</b></p> <p><i>Emergency Spillway Elevation (as designed) - 5,902 feet</i></p>

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

*The pond had about 10 inches of water in the bottom. Both the inlet and outlet to the pond were in good repair. No discharge from the pond during 1<sup>st</sup> Quarter of 2008.*

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.

Refer to No. 2 and 4 for information.

**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: Uchey A. Miller Date: 4/1/08

**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	
Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	X	

**COMMENTS AND OTHER INFORMATION**

**Certification Statement:**

[PE Cert. Stamp]

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.

By: \_\_\_\_\_  
(Full Name and Title)

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

P.E. Number & State: \_\_\_\_\_

**IMPOUNDMENT INSPECTION AND CERTIFIED REPORT**

Unit Number	ACT/007/039	Report Date	04/11/08
Mine Name	Dugout Canyon Mine		
Company Name	Canyon Fuel Company, LLC		
Impoundment Identification	Impoundment Name	Refuse Pile Sedimentation Pond	
	Impoundment Number	None	
	UPDES Permit Number	UT0025593	
	MSHA ID Number	Impoundment - None (Refuse Pile 1211-UT-09-01890-01)	

**IMPOUNDMENT INSPECTION**

Inspection Date	3/28/08
Inspected By	Dave Spillman
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Quarterly Inspection / Certification

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

Construction of the Refuse Pile Sedimentation Pond has been completed in accordance with the approved plan. There were no signs of instability, structural weakness or other hazardous conditions observed during this inspection.

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.  <i>Sediment Storage Capacity (as designed) - 100% = 0.78 acre-feet @ an elevation of 5,895.9 feet - 60% = 0.47 acre-feet @ an elevation of 5,894.7 feet</i>
	3. Principle and emergency spillway elevations.  <i>Emergency Spillway Elevation (as designed) - 5,902 feet</i>

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.

*A small amount of water was impounded at the time of the inspection, (approximately six inches in depth). The accumulation of sediment has not yet reached the allowed 60% level.*

*This pond has never discharged.*

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.

**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: \_\_\_\_\_

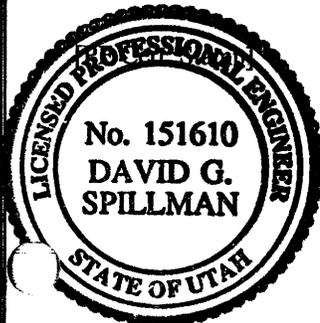
**CERTIFIED REPORT**

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
1. Is impoundment designed and constructed in accordance with the approved plan?	X	
2. Is impoundment free of instability, structural weakness, or any other hazardous condition?	X	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	X	

**COMMENTS AND OTHER INFORMATION**

**Certification Statement:**

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.



By: David G. Spillman, Technical Services Manager  
(Full Name and Title)

Signature: David G. Spillman Date: 04/11/08

P.E. Number & State: No. 151610, State of Utah

**IMPOUNDMENT INSPECTION AND CERTIFIED REPORT**

Permit Number	C/007/039	Report Date	7/2/08
Mine Name	Dugout Canyon Mine		
Company Name	Canyon Fuel Company, LLC		
Impoundment Identification	Impoundment Name	Waste Rock Sedimentation Pond	
	Impoundment Number	None	
	UPDES Permit Number	UT0025593	
	MSHA ID Number	Impoundment - None (Mine - 42-01890)	

**IMPOUNDMENT INSPECTION**

Inspection Date	5/28/08
Inspected By	Vicky Miller
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Routine Quarterly Inspection

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

There were no signs of instability, structural weakness or other hazardous conditions observed during this inspection

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.  Sediment Storage Capacity (as designed) - 100% = 0.78 acre-feet @ an elevation of 5895.9 feet - 60% = 0.47 acre-feet @ an elevation of 5894.7 feet  Approximately 50% of the sediment storage capacity is currently available in the pond.
	3. Principle and emergency spillway elevations.  Emergency Spillway Elevation (as designed) - 5,902 feet

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

The pond had about 14 inches of water in the bottom. Both the inlet and outlet to the pond were in good repair. No discharge from the pond during 2nd Quarter of 2008.

3. **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.

Refer to No. 2 and 4 for information.

**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: Verly A. Miller Date: 7/2/08

**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	
Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	X	

**COMMENTS AND OTHER INFORMATION**

**Certification Statement:**

[PE Cert. Stamp]

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.

By: \_\_\_\_\_  
(Full Name and Title)

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

P.E. Number & State: \_\_\_\_\_

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of 2	
Permit Number	ACT/007/039	Report Date	09/02/08
Mine Name	Dugout Canyon Mine		
Company Name	Canyon Fuel Company, LLC		
Impoundment Identification	Impoundment Name	Refuse Pile Sedimentation Pond	
	Impoundment Number	None	
	UPDES Permit Number	UT0025593	
	MSHA ID Number	Impoundment - None (Refuse Pile 1211-UT-09-01890-01)	
<b>IMPOUNDMENT INSPECTION</b>			
Inspection Date	06/07/08		
Inspected By	Dave Spillman		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Quarterly Inspection / Certification		
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p><i>Construction of the Refuse Pile Sedimentation Pond has been completed in accordance with the approved plan. There were no signs of instability, structural weakness or other hazardous conditions observed during this inspection.</i></p>			
Required for an impoundment which functions as a SEDIMENTATION POND.	<p>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.</p> <p><i>Sediment Storage Capacity (as designed) - 100% = 0.78 acre-feet @ an elevation of 5,895.9 feet</i>  <i>- 60% = 0.47 acre-feet @ an elevation of 5,894.7 feet</i></p>		
	<p>3. Principle and emergency spillway elevations.</p> <p><i>Emergency Spillway Elevation (as designed) - 5,902 feet</i></p>		
<p>4. <b>Field Information.</b> Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on out slopes of embankments, etc.</p> <p><i>The pond was dry at the time of the inspection. The accumulation of sediment has not yet reached the allowed 60% level.</i></p> <p><i>This pond has never discharged.</i></p>			

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.

**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: \_\_\_\_\_

**CERTIFIED REPORT**

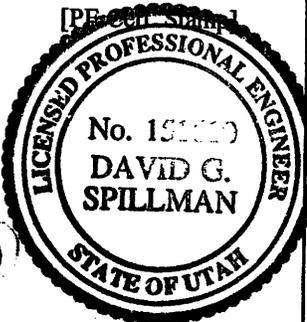
**IMPOUNDMENT EVALUATION (If NO, explain under Comments)**

	YES	NO
1. Is impoundment designed and constructed in accordance with the approved plan?	X	
Is impoundment free of instability, structural weakness, or any other hazardous condition?	X	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	X	

**COMMENTS AND OTHER INFORMATION**

**Certification Statement:**

I hereby certify that, I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.



By: David G. Spillman, Technical Services Manager  
(Full Name and Title)

Signature: David G. Spillman Date: 9/2/08

P.E. Number & State: No. 151610, State of Utah

<b>IMPOUNDMENT INSPECTION AND CERTIFIED REPORT</b>		<b>Page 1 of 2</b>
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Permit Number	C/007/039	Report Date	8/26/08
Mine Name	Dugout Canyon Mine		
Company Name	Canyon Fuel Company, LLC		
Impoundment Identification	Impoundment Name	Waste Rock Sedimentation Pond	
	Impoundment Number	None	
	UPDES Permit Number	UT0025593	
	MSHA ID Number	Impoundment - None (Mine - 42-01890)	

<b>IMPOUNDMENT INSPECTION</b>	
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Inspection Date	8/25/08
Inspected By	Vicky Miller
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Routine Quarterly Inspection

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

*There were no signs of instability, structural weakness or other hazardous conditions observed during this inspection*

<b>Required for an impoundment which functions as a SEDIMENTATION POND.</b>	<p><b>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.</b></p> <p><i>Sediment Storage Capacity (as designed) - 100% = 0.78 acre-feet @ an elevation of 5895.9 feet</i>  <i>- 60% = 0.47 acre-feet @ an elevation of 5894.7 feet</i></p> <p><i>Approximately 50% of the sediment storage capacity is currently available in the pond.</i></p> <p><b>3. Principle and emergency spillway elevations.</b></p> <p><i>Emergency Spillway Elevation (as designed) - 5,902 feet</i></p>
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**4. Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on out slopes of embankments, etc.

*The pond had about 10 inches of water in the bottom on the west side of the pond. Vegetation was growing in the bottom of the pond. Both the inlet and outlet to the pond were in good repair. No discharge from the pond to date in 2008.*

**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.

Refer to No. 2 and 4 for information.

**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: Uchey S Miller Date: 8-26-08

**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	
Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	X	

**COMMENTS AND OTHER INFORMATION**

**Certification Statement:**

[PE Cert. Stamp]

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.

By: \_\_\_\_\_  
(Full Name and Title)

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

P.E. Number & State: \_\_\_\_\_

**IMPOUNDMENT INSPECTION AND CERTIFIED REPORT**

Permit Number	C/007/039	Report Date	9/10/08
Mine Name	Dugout Canyon Mine		
Company Name	Canyon Fuel Company, LLC		
Impoundment Identification	Impoundment Name	Waste Rock Sedimentation Pond	
	Impoundment Number	None	
	UPDES Permit Number	UT0025593	
	MSHA ID Number	Impoundment - None (Mine - 42-01890)	

**IMPOUNDMENT INSPECTION**

Inspection Date	9/10/08
Inspected By	Vicky Miller
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Routine Quarterly Inspection

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

*There were no signs of instability, structural weakness or other hazardous conditions observed during this inspection*

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.

*Sediment Storage Capacity (as designed) - 100% = 0.78 acre-feet @ an elevation of 5895.9 feet  
 - 60% = 0.47 acre-feet @ an elevation of 5894.7 feet  
 Approximately 50% of the sediment storage capacity is currently available in the pond.*

3. Principle and emergency spillway elevations.

*Emergency Spillway Elevation (as designed) - 5,902 feet*

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

*The pond had about 15 inches of water in the bottom of the pond. Vegetation was growing in the bottom of the pond. Both the inlet and outlet to the pond were in good repair. The area has received several storms in the past week and a half, the pond was checked for discharge and potential maintenance needs. No discharge from the pond to date in 2008.*

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.

Refer to No. 2 and 4 for information.

**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: Verdy S. Miller Date: 9/10/08

**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	
Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	X	

**COMMENTS AND OTHER INFORMATION**

**Certification Statement:**

[PE Cert. Stamp]

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.

By: \_\_\_\_\_  
(Full Name and Title)

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

P.E. Number & State: \_\_\_\_\_

<b>IMPOUNDMENT INSPECTION AND CERTIFIED REPORT</b>		Page 1 of 2
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Permit Number	ACT/007/039	Report Date	10/08/08
Mine Name	Dugout Canyon Mine		
Company Name	Canyon Fuel Company, LLC		
Impoundment Identification	Impoundment Name	Refuse Pile Sedimentation Pond	
	Impoundment Number	None	
	UPDES Permit Number	UT0025593	
	MSHA ID Number	Impoundment -None (Refuse Pile 1211-UT-09-01890-01)	

**IMPOUNDMENT INSPECTION**

Inspection Date	09/21/08		
Inspected By	Dave Spillman		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Quarterly Inspection / Certification		

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

*Construction of the Refuse Pile Sedimentation Pond has been completed in accordance with the approved plan. There were no signs of instability, structural weakness or other hazardous conditions observed during this inspection.*

<b>Required for an impoundment which functions as a SEDIMENTATION POND.</b>	<p><b>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.</b></p> <p><i>Sediment Storage Capacity (as designed) - 100% = 0.78 acre-feet @ an elevation of 5,895.9 feet</i></p> <p style="padding-left: 40px;"><i>- 60% = 0.47 acre-feet @ an elevation of 5,894.7 feet</i></p>
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	<p><b>3. Principle and emergency spillway elevations.</b></p> <p><i>Emergency Spillway Elevation (as designed) - 5,902 feet</i></p>
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**4. Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on out slopes of embankments, etc.

*Approximately six inches of water was impounded within the pond at the time of the inspection. The accumulation of sediment has not yet reached the allowed 60% level.*

*This pond has never discharged.*

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.

**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: \_\_\_\_\_

**CERTIFIED REPORT**

**IMPOUNDMENT EVALUATION (If NO, explain under Comments)**

	YES	NO
1. Is impoundment designed and constructed in accordance with the approved plan?	X	
Is impoundment free of instability, structural weakness, or any other hazardous condition?	X	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	X	

**COMMENTS AND OTHER INFORMATION**

**Certification Statement:**

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.

[PE Cert. Stamp]



By: David G. Spillman, Technical Services Manager  
(Full Name and Title)

Signature: David G. Spillman Date: 10/8/09

P.E. Number & State: No. 151610, State of Utah

**IMPOUNDMENT INSPECTION AND CERTIFIED REPORT**

Permit Number	C/007/039	12/12/08
Mine Name	Dugout Canyon Mine	
Company Name	Canyon Fuel Company, LLC	
Impoundment Identification	Impoundment Name	Waste Rock Sedimentation Pond
	Impoundment Number	None
	UPDES Permit Number	UT0025593
	MSHA ID Number	Impoundment - None (Mine - 42-01890)

**IMPOUNDMENT INSPECTION**

Inspection Date	12/11/08
Inspected By	Vicky Miller
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Routine Quarterly Inspection

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

*There were no signs of instability, structural weakness or other hazardous conditions observed during this inspection*

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.

*Sediment Storage Capacity (as designed) - 100% = 0.78 acre-feet @ an elevation of 5895.9 feet  
- 60% = 0.47 acre-feet @ an elevation of 5894.7 feet*

Approximately 50% of the sediment storage capacity is currently available in the pond.

3. Principle and emergency spillway elevations.

*Emergency Spillway Elevation (as designed) - 5,902 feet*

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

*The pond had about 12 inches of water in the bottom. Both the inlet and outlet to the pond were in good repair. No discharge from the pond to date in 2008. Ditches discharging to the pond were being cleaned and realigned at the time of inspection.*

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.

Refer to No. 2 and 4 for information.

**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: Uckey A Miller Date: 12/12/08

**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	
Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	X	

**COMMENTS AND OTHER INFORMATION**

**Certification Statement:**

[PE Cert. Stamp]

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.

By: \_\_\_\_\_  
(Full Name and Title)

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

P.E. Number & State: \_\_\_\_\_

**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 requirement of R645-310-130 and R645-301-140

**CONTENTS**

**Subsidence Report and Map 2008**  
**Raptor Survey Data (Confidential)**  
**Snotel Report**

## **DUGOUT CANYON MINE - Visual Checks for Subsidence - 2008**

Dugout Canyon Mine, M&RP, Chapter 5, Section 525 "Visual checks for subsidence will be made during all surface activities, especially during water monitoring activities. These visual surveys will be used to detect surface irregularities and surface cracks."

Checks were performed on the following dates at the locations listed:

### Pace Canyon Fan Portal Facilities and Degass Wells (Various Sites)

April 10, 12 -14

May 12, 16, 19, 27 - 30

June 9, 19, 25 - 27

July 3, 8, 16, 17, 22, 24, 28

August 9 - 11, 13, 20 - 22, 28

September 2 - 4, 8, 19, 22 - 26

October 13, 21, 23, 28, 29

November 11, 13, 18-20, 24 - 26, 30

December 9, 12-16

**No surface irregularities or surface cracks were observed.**

### Water Monitoring was Performed in the Following Areas

Dugout Creek Area and Pace Canyon Area - 3/21, 3/24, 5/19 – 23, 6/5, 6/6, 6/13, 6/17, 6/18, 7/11, 7/14, 7/15, 7/20 – 29, 10/7, 11/11, 11/14

**No surface irregularities or surface cracks were observed.**

Subsidence cracks were observed running through the pad of Well G-7 (UDOGM Inspection Report, June 28, 2006). A subsidence crack repair plan was submitted, approved and implemented. The condition of repaired cracks was checked in August 2008 and November 2008, no additional cracking observed.

S N O W - P R E C I P I T A T I O N U P D A T E

Based on Mountain Data from NRCS SNOTEL Sites  
As of THURSDAY: FEBRUARY 26 , 2009

BASIN Data Site Name	ELEV. (Ft)	SNOW WATER EQUIVALENT			TOTAL PRECIPITATION		
		Current	Average	Avg %	Current	Average	Avg %
UTAH							
BEAR RIVER							
TRIAL LAKE	9992	18.1	19.9	91	17.7	19.9	89
HAYDEN FORK	9212	12.8	12.7	101	15.9	16.6	96
LILY LAKE	9156	10.4	10.5	99	12.2	13.9	88
MONTE CRISTO	8960	19.7	23.8	83	20.0	20.5	98
TONY GROVE LAKE	8386	28.7	29.0	99	26.1	28.7	91
USU DOC DANIEL	8270	22.3	-M	*	23.3	-M	*
FRANKLIN BASIN	8085	21.1	22.5	94	26.3	24.7	106
BUG LAKE	7950	14.0	16.6	84	13.4	15.7	85
TEMPLE FORK	7406	14.6	-M	*	15.5	-M	*
LITTLE BEAR	6544	11.5	12.4	93	20.1	19.4	104
Basin wide percent of average				92	95		

WEBER-OGDEN RIVERS

TRIAL LAKE	9992	18.1	19.9	91	17.7	19.9	89
HAYNES CANYON	9230	17.4	18.4	95	18.6	19.4	96
CHALK CREEK #1	8993	17.5	19.2	91	18.4	20.2	91
MONTE CRISTO	8960	19.7	23.8	83	20.0	20.5	98
DRY BREAD POND	8350	16.2	18.5	88	16.0	16.8	95
BEAVER DIVIDE	8280	9.7	9.9	98	13.3	14.3	93
LIGHTNING RIDGE	8215	14.9	-M	*	17.8	-M	*
HORSE RIDGE	8160	17.4	19.6	89	17.9	19.9	90
CHALK CREEK #2	8158	12.1	12.5	97	12.6	13.4	94
BEN LOMOND PEAK	8000	39.1	33.1	118	43.7	35.7	122
FARMINGTON	8000	33.3	26.3	127	31.0	26.8	116
PARRISH CREEK	7740	22.6	-M	*	26.9	-M	*
SMITH & MOREHOUSE	7600	13.0	12.0	108	12.8	15.2	84
PARLEY'S SUMMIT	7500	12.9	14.9	87	16.8	17.2	98
HARDSCRABBLE	7250	15.2	13.5	113	22.7	24.6	92
FARMINGTON LOWER	6779	21.1	-M	*	27.4	-M	*
BEN LOMOND TRAIL	5829	18.8	18.4	102	28.8	24.6	117
Basin wide percent of average				100	101		

PROVO R. -UTAH LAKE-JORDAN R.

TRIAL LAKE	9992	18.1	19.9	91	17.7	19.9	89
SNOWBIRD	9640	32.9	27.3	121	31.2	30.2	103
CLEAR CREEK #1	8908	14.6	16.2	90	17.0	14.9	114
MILL-D NORTH	8967	20.0	20.3	99	21.1	21.4	99
BRIGHTON	8750	17.4	19.8	88	21.6	22.6	96
BEAVER DIVIDE	8280	9.7	9.9	98	13.3	14.3	93
LOOKOUT PEAK	8200	23.0	19.5	118	26.2	24.9	105
TIMPANOGOS DIVIDE	8140	-M	19.8	*	26.0	20.2	129
PAYSON R.S.	8066	14.0	16.5	85	14.4	13.2	109

DANIELS-STRAWBERRY	8037	12.3	14.7	84	16.1	16.6	97
CLEAR CREEK #2	7659	10.4	11.9	87	14.1	12.1	117
CASCADE MOUNTAIN	7702	19.0	-M	*	23.7	-M	*
PARLEY'S SUMMIT	7500	12.9	14.9	87	16.8	17.2	98
DRY FORK	7093	9.9	13.7	72	13.5	16.0	84
LOUIS MEADOW	6700	18.8	-M	*	22.3	-M	*

Basin wide percent of average 95 102

TOOELE VALLEY-VERNON CREEK

ROCKY BASIN-SETTLEME	8900	15.7	20.4	77	20.2	19.6	103
MINING FORK	8221	14.8	13.9	106	19.8	17.8	111
VERNON CREEK	7401	11.4	9.7	118	18.0	12.8	141

Basin wide percent of average 95 116

GREEN RIVER

STEEL CREEK PARK	10200	8.3	12.2	68	11.7	12.5	94
HEWINTA	9519	6.5	8.8	74	9.4	11.3	83
TROUT CREEK	9518	6.1	7.7	79	8.9	9.9	90
HOLE-IN-ROCK	9150	3.1	5.5	56	5.3	5.6	95
HICKERSON PARK	9145	2.6	5.7	46	5.2	6.1	85
KING'S CABIN	8724	6.9	9.1	76	8.9	9.6	93

Basin wide percent of average 68 90

DUCHESNE RIVER

LAKEFORK BASIN	10966	-M	16.0	*	17.3	16.6	104
FIVE POINTS LAKE	10940	11.8	13.2	89	14.3	15.4	93
BROWN DUCK	10600	13.2	14.5	91	13.9	15.6	89
CHEPETA	10592	11.0	11.0	100	9.8	12.2	80
LAKEFORK #1	10415	9.3	10.1	92	10.6	11.3	94
TRIAL LAKE	9992	18.1	19.9	91	17.7	19.9	89
MOSBY MTN.	9510	8.8	8.9	99	11.3	10.8	105
INDIAN CANYON	9175	9.2	9.3	99	11.6	11.5	101
STRAWBERRY DIVIDE	8123	11.3	15.8	72	15.6	17.7	88
DANIELS-STRAWBERRY	8037	12.3	14.7	84	16.1	16.6	97
CURRANT CREEK	8000	7.7	9.2	84	10.9	12.2	89
ROCK CREEK	7889	6.6	7.6	87	7.5	10.4	72

Basin wide percent of average 89 92

PRICE-SAN RAFAEL

SEELEY CREEK	9910	10.4	11.8	88	9.1	10.7	85
BUCK FLAT	9430	13.3	14.8	90	14.5	15.6	93
RED PINE RIDGE	9009	10.5	13.7	77	13.9	14.6	95
MAMMOTH-COTTONWOOD	8727	15.9	16.9	94	14.6	13.1	111
TIMBERLINE	8684	8.6	-M	*	11.2	-M	*
WHITE RIVER #1	8641	9.6	11.2	86	11.5	11.6	99

Basin wide percent of average 87 97

DIRTY DEVIL

# Snotel Narrative

United States  
Department of  
Agriculture

Natural Resources  
Conservation  
Service

Water and Climate Center  
Portland, Oregon

## S N O W - P R E C I P I T A T I O N U P D A T E

Based on Mountain Data from NRCS SNOTEL Sites  
As of MONDAY: MARCH 2 , 2009

STATE RIVER BASIN	Number of Sites	PERCENT OF AVERAGE	
		Snow Water Equivalent	Accum Precip
<b>ALASKA</b>			
ANCHORAGE/SHIP CREEK BASIN	3 of 3	95	102
SUSITNA BASIN	4 of 6	50	97
NORTHERN KENAI MOUNTAINS	6 of 6	67	80
SOUTHERN KENAI	2 of 6	*	63
COPPER BASIN	2 of 4	91	87
PRINCE WILLIAM SOUND	0 of 6	*	86
CHENA BASIN	5 of 6	79	72
UPPER TANANA	1 of 3	*	103
KOYUKUK BASIN	1 of 3	*	123
CENTRAL YUKON BASIN	0 of 3	*	88
SEWARD PENINSULA	0 of 3	*	85
KUPARUK RIVER BASIN	0 of 1	*	163
SOUTHEAST ALASKA BASIN	0 of 1	*	*
<b>ARIZONA</b>			
VERDE RIVER BASIN	5 of 5	122	117
SAN FRANCISCO PEAKS	1 of 1	172	66
CENTRAL MOGOLLON RIM	3 of 3	114	115
LITTLE COLORADO - SOUTHERN HEADWATERS	2 of 2	114	122
UPPER SALT RIVER BASIN / WHITE MOUNTAINS	5 of 6	85	91
SAN FRANCISCO RIVER BASIN	4 of 5	55	78
UPPER GILA RIVER BASIN	3 of 3	38	67
<b>CALIFORNIA</b>			
NORTHERN GREAT BASIN	4 of 4	76	89
TRUCKEE RIVER	8 of 8	73	82
LAKE TAHOE	8 of 8	75	80
CARSON RIVER	5 of 9	76	90
WALKER RIVER	5 of 6	75	85
KLAMATH	9 of 10	90	86
<b>COLORADO</b>			
GUNNISON RIVER BASIN	11 of 13	108	104
UPPER COLORADO RIVER BASIN	26 of 29	117	107
SOUTH PLATTE RIVER BASIN	14 of 15	96	99
LARAMIE AND NORTH PLATTE RIVER BASINS	13 of 13	105	105
YAMPA AND WHITE RIVER BASINS	17 of 19	112	108
ARKANSAS RIVER BASIN	6 of 9	114	97
UPPER RIO GRANDE BASIN	10 of 13	110	107
SAN MIGUEL, DOLORES, ANIMAS AND SAN JUAN RIVER BASINS	14 of 16	108	106
<b>IDAHO</b>			
NORTHERN PANHANDLE REGION	12 of 16	75	83
SPOKANE RIVER BASIN	8 of 10	81	88
CLEARWATER BASIN	14 of 15	84	94
SALMON BASIN	22 of 22	81	84
WEISER BASIN	3 of 4	71	81

PAYSON R.S.	8066	13.7	17.2	80	14.5	13.6	107
DANIELS-STRAWBERRY	8037	12.6	15.1	83	16.3	17.2	95
CLEAR CREEK #2	7659	10.6	12.3	86	14.1	12.6	112
CASCADE MOUNTAIN	7702	18.8	-M	*	23.7	-M	*
PARLEY'S SUMMIT	7500	12.8	15.3	84	16.9	17.7	95
DRY FORK	7093	9.9	14.5	68	13.6	16.5	82
LOUIS MEADOW	6700	18.8	-M	*	22.4	-M	*

Basin wide percent of average 92 100

TOOELE VALLEY-VERNON CREEK

ROCKY BASIN-SETTLEME	8900	15.8	21.2	75	20.3	20.3	100
MINING FORK	8221	14.8	14.9	99	19.9	18.5	108
VERNON CREEK	7401	11.3	10.1	112	18.2	13.2	138

Basin wide percent of average 91 112

GREEN RIVER

STEEL CREEK PARK	10200	8.7	12.7	69	11.9	12.9	92
HEWINTA	9519	6.5	9.1	71	9.7	11.6	84
TROUT CREEK	9518	6.1	8.1	75	9.0	10.3	87
HOLE-IN-ROCK	9150	3.2	5.7	56	5.4	5.8	93
HICKERSON PARK	9145	3.0	5.8	52	5.4	6.2	87
KING'S CABIN	8724	6.8	9.4	72	9.1	9.9	92

Basin wide percent of average 68 89

CHESNE RIVER

LAKEFORK BASIN	10966	-M	16.6	*	17.5	17.1	102
FIVE POINTS LAKE	10940	11.7	13.8	85	14.5	15.9	91
BROWN DUCK	10600	13.4	15.0	89	14.0	16.2	86
CHEPETA	10592	11.0	11.4	96	9.8	12.6	78
LAKEFORK #1	10415	9.2	10.5	88	10.6	11.6	91
TRIAL LAKE	9992	18.3	20.6	89	17.8	20.5	87
MOSBY MTN.	9510	8.8	9.3	95	11.4	11.2	102
INDIAN CANYON	9175	9.1	9.6	95	11.6	11.8	98
STRAWBERRY DIVIDE	8123	11.5	16.3	71	15.8	18.2	87
DANIELS-STRAWBERRY	8037	12.6	15.1	83	16.3	17.2	95
CURRANT CREEK	8000	8.0	9.6	83	11.0	12.6	87
ROCK CREEK	7889	-M	7.9	*	-M	10.7	*

Basin wide percent of average 87 91

PRICE-SAN RAFAEL

SEELEY CREEK	9910	10.1	12.3	82	9.4	11.1	85
BUCK FLAT	9430	13.3	15.3	87	14.5	16.1	90
RED PINE RIDGE	9009	10.7	14.2	75	14.1	15.1	93
MAMMOTH-COTTONWOOD	8727	16.0	17.6	91	14.6	13.4	109
TIMBERLINE	8684	8.5	-M	*	11.2	-M	*
WHITE RIVER #1	8641	9.7	11.6	84	11.6	11.9	97

Basin wide percent of average 84 95

DIRTY DEVIL

**APPENDIX C**

**Legal Financial, Compliance and Related Information**

Annual Report of Officers  
As submitted to the Utah Department of Commerce

Other change in ownership and control information  
As required under R645-301-110

**CONTENTS**

**Refer to General Chapter 1**

**APPENDIX D**

**Mine Maps**

As required under R645-302-525-270

**CONTENTS**

**Gilson Seam 2009 Budget Map**  
**Rock Canyon Seam 2009 Budget Map**

**APPENDIX E**

**Other Information**

In accordance with the requirements of R645-301 and R645-302

**CONTENTS**

**Waste Rock Sample Analysis**



**Soil Analysis Report**

Canyon Fuel Company  
Dugout Canyon Mine  
P.O. Box 1029  
Wellington, UT 84542

Report ID: S0805438001

Project: Dugout Canyon Mine

Date Reported: 6/23/2008

Date Received: 5/27/2008

Work Order: S0805438

Lab ID	Sample ID	pH s.u.	Saturation %	Electrical		Field Capacity %	Wilt Point %	Calcium meq/L	Magnesium meq/L	Sodium meq/L	Potassium meq/L	SAR
				Conductivity dS/m	Conductivity dS/m							
S0805438-001	WS Feb	8.3	25.3	0.81	0.81	16	5.9	1.12	0.84	5.42	0.48	5.48
S0805438-002	WS April	8.2	25.2	0.84	0.84	16	6.1	1.02	0.84	5.59	0.50	5.80
S0805438-003	WS May	8.6	29.6	0.61	0.61	16	4.0	0.36	0.23	5.22	0.23	9.63

These results apply only to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H2OSol= water soluble, AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate  
Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential  
Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed by: Karen A Secor

Karen Secor, Soil Lab Supervisor



**Soil Analysis Report**

**Canyon Fuel Company**  
Dugout Canyon Mine  
P.O. Box 1029  
Wellington, UT 84542

Report ID: S0805438001

Project: Dugout Canyon Mine

Date Reported: 6/23/2008

Date Received: 5/27/2008

Work Order: S0805438

Lab ID	Sample ID	Sand %	Silt %	Clay %	Texture	Available Sodium		Exchangeable Sodium
						meq/100g	meq/100g	
S0805438-001	WS Feb	73.0	19.0	8.0	Sandy Loam	1.28	1.15	1.15
S0805438-002	WS April	73.0	20.0	7.0	Sandy Loam	0.76	0.62	0.62
S0805438-003	WS May	83.0	12.0	5.0	Loamy Sand	0.99	0.83	0.83

These results apply only to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H2SO4= water soluble, AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate  
Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential  
Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed by: Karen A. Secor

Karen Secor, Soil Lab Supervisor



**Soil Analysis Report**  
**Canyon Fuel Company**  
Dugout Canyon Mine  
P.O. Box 1029  
Wellington, UT 84542

Report ID: S0805438001

Project: Dugout Canyon Mine

Date Received: 5/27/2008

Date Reported: 6/23/2008

Work Order: S0805438

Lab ID	Sample ID	Nitrogen			Phosphorus ppm	Boron ppm	Selenium ppm
		TKN %	Nitrate ppm				
S0805438-001	WS Feb	0.27	0.21	<0.01	1.01	<0.02	
S0805438-002	WS April	0.21	0.19	0.12	0.94	<0.02	
S0805438-003	WS May	0.35	0.16	0.07	0.47	<0.02	

These results apply only to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble, AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate  
Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential  
Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed by: Karen A. Secor

Karen Secor, Soil Lab Supervisor



**Soil Analysis Report**

**Canyon Fuel Company**

Dugout Canyon Mine

P.O. Box 1029

Wellington, UT 84542

Report ID: S0805438001

Project: Dugout Canyon Mine

Date Received: 5/27/2008

Date Reported: 6/23/2008

Work Order: S0805438

Lab ID	Sample ID	Total Sulfur		T.S.		Neut.		Pyritic Sulfur		Organic Sulfur		PyriticS		PyriticS		Total Carbon	
		%	1/1000t	AB	1/1000t	Pot.	1/1000t	Sulfur	%	Sulfur	%	AB	1/1000t	ABP	1/1000t	ABP	1/1000t
S0805438-001	WS Feb	0.88	27.4	33.6	60.9	0.08	0.57	0.23	17.7	43.2	15.8						
S0805438-002	WS April	0.69	21.7	34.8	56.4	<0.01	0.49	0.19	15.4	41.0	15.5						
S0805438-003	WS May	0.35	11.1	13.0	24.1	0.03	0.07	0.25	2.33	21.7	25.8						

These results apply only to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H2OSol= water soluble, AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate  
 Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential  
 Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed by: Karen A Secor

Karen Secor, Soil Lab Supervisor



**Soil Analysis Report**  
Canyon Fuel Company  
Dugout Canyon Mine  
P.O. Box 1029  
Wellington, UT 84542

Report ID: S0805438001

Project: Dugout Canyon Mine  
Date Received: 5/27/2008

Date Reported: 6/23/2008  
Work Order: S0805438

Lab ID	Sample ID	TOC	
			%
S0805438-001	WS Feb		15.1
S0805438-002	WS April		14.9
S0805438-003	WS May		25.5

These results apply only to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H2OSol= water soluble, AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate  
Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Sulfur, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential  
Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed by: Karen A Secor

Karen Secor, Soil Lab Supervisor



**Soil Analysis Report**  
Canyon Fuel Company  
Dugout Canyon Mine  
P.O. Box 1029  
Wellington, UT 84542

Report ID: S0807229001

Project: Dugout Canyon Mine  
Date Received: 7/10/2008

Date Reported: 8/18/2008  
Work Order: S0807229

Lab ID	Sample ID	pH s.u.	Saturation %	Electrical		Field		Wilt Point %	Calcium meq/L	Magnesium meq/L	Sodium meq/L	Potassium meq/L	SAR
				Conductivity dS/m	Capacity %								
S0807229-001	WS June	7.8	28.0	1.86	21	5.2	4.93	4.22	10.7	0.94	5.01		
S0807229-002	WS July	7.9	24.9	1.39	19	6.5	2.29	2.40	9.04	0.78	5.91		

These results apply only to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H2OSol= water soluble, AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate  
Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential  
Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed by: Karen A Secor

Karen Secor, Soil Lab Supervisor



**Soil Analysis Report**  
**Canyon Fuel Company**  
Dugout Canyon Mine  
P.O. Box 1029  
Wellington, UT 84542

Report ID: S0807229001

Project: Dugout Canyon Mine  
Date Received: 7/10/2008

Date Reported: 8/18/2008  
Work Order: S0807229

Lab ID	Sample ID	Sand %	Silt %	Clay %	Texture	Available		Exchangeable	
						Sodium meq/100g	Sulfur meq/100g	Sodium meq/100g	Sulfur meq/100g
S0807229-001	WS June	76.0	16.0	8.0	Sandy Loam	0.62	0.34		
S0807229-002	WS July	73.0	20.0	7.0	Sandy Loam	0.53	0.31		

These results apply only to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H2Osol= water soluble, AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate  
Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential  
Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed by: Karen A Secor

Karen Secor, Soil Lab Supervisor



**Soil Analysis Report**  
Canyon Fuel Company  
Dugout Canyon Mine  
P.O. Box 1029  
Wellington, UT 84542

Report ID: S0807229001

Project: Dugout Canyon Mine  
Date Received: 7/10/2008

Date Reported: 8/18/2008  
Work Order: S0807229

Lab ID	Sample ID	Nitrogen				Selenium ppm
		TKN %	Nitrate ppm	Phosphorus ppm	Boron ppm	
S0807229-001	WS June	0.16	0.14	4.28	0.57	<0.02
S0807229-002	WS July	0.13	0.11	5.38	0.60	<0.02

These results apply only to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H2OSol= water soluble, AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate  
Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential  
Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed by: Karen A Secor  
Karen Secor, Soil Lab Supervisor



**Soil Analysis Report**

**Canyon Fuel Company**

Dugout Canyon Mine

P.O. Box 1029

Wellington, UT 84542

Report ID: S0807229001

Project: Dugout Canyon Mine

Date Received: 7/10/2008

Date Reported: 8/18/2008

Work Order: S0807229

Lab ID	Sample ID	Total Sulfur		T.S. AB		Neutral. Potential		T.S. ABP		Sulfate Sulfur		Pyritic Sulfur		Organic Sulfur		PyriticS AB		PyriticS ABP		Total Carbon
		%	1/1000t	%	1/1000t	%	1/1000t	%	1/1000t	%	1/1000t	%	1/1000t	%	1/1000t	%	1/1000t	%	1/1000t	
S0807229-001	WS June	0.61	19.0	84.2	65.2	0.01	0.45	0.14	14.2	70.0	9.9									
S0807229-002	WS July	0.82	25.5	115	89.9	0.02	0.64	0.16	19.9	95.4	9.4									

These results apply only to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H2OSol= water soluble, AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate  
 Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential  
 Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed by: Karen A. Secor  
 Karen Secor, Soil Lab Supervisor



**Soil Analysis Report**  
Canyon Fuel Company  
Dugout Canyon Mine  
P.O. Box 1029  
Wellington, UT 84542

Report ID: S0807229001

Project: Dugout Canyon Mine

Date Reported: 8/18/2008

Date Received: 7/10/2008

Work Order: S0807229

Lab ID	Sample ID	TOC	
			%
S0807229-001	WS June		8.9
S0807229-002	WS July		8.0

These results apply only to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H2OSol= water soluble, AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate  
Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential  
Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed by: Karen A. Secor  
Karen Secor, Soil Lab Supervisor



**Soil Analysis Report**  
**Canyon Fuel Company**  
Dugout Canyon Mine  
P.O. Box 1029  
Wellington, UT 84542

Report ID: S0809301001

Project: Dugout Canyon Mine

Date Reported: 10/16/2008

Date Received: 9/16/2008

Work Order: S0809301

Lab ID	Sample ID	pH s.u.	Saturation %	Electrical		Field Capacity %	Wilt Point %	Calcium meq/L	Magnesium meq/L	Sodium meq/L	Potassium meq/L	SAR
				Conductivity dS/m	Conductivity dS/m							
S0809301-001	WR Aug 1	8.2	24.6	2.14	3.71	19	4.2	3.71	4.45	9.58	2.64	4.75
S0809301-002	WR Aug 2	8.0	27.3	1.40	4.19	13	3.8	4.19	4.03	6.61	0.75	3.26
S0809301-003	WR Sept	8.6	23.4	0.70	0.82	11	3.4	0.82	0.65	4.77	0.41	5.57
S0809301-004	G-16 TS	7.4	45.2	0.43	3.11	28	14	3.11	0.73	0.63	0.44	0.46

These results apply only to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H2Osol= water soluble, AB-DTPA= Ammonium Bicarbonate-DTPA, AAC= Acid Ammonium Oxalate

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

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

Reviewed by: Karen A. Secor

Karen Secor, Soil Lab Supervisor



**Soil Analysis Report**  
**Canyon Fuel Company**  
Dugout Canyon Mine  
P.O. Box 1029  
Wellington, UT 84542

Report ID: S0809301001

Project: Dugout Canyon Mine  
Date Received: 9/16/2008

Date Reported: 10/16/2008  
Work Order: S0809301

Lab ID	Sample ID	Sand %	Silt %	Clay %	Texture	TKN %	Nitrogen		Phosphorus ppm	Boron ppm	Selenium ppm
							Nitrate ppm	Nitrite ppm			
S0809301-001	WR Aug 1	83.0	13.0	4.0	Loamy Sand	0.06	0.13	4.63	0.45	<0.02	
S0809301-002	WR Aug 2	77.0	18.0	5.0	Loamy Sand	0.11	0.10	3.57	0.43	0.02	
S0809301-003	WR Sept	79.0	15.0	6.0	Loamy Sand	0.02	0.09	2.21	0.46	<0.02	
S0809301-004	G-16 TS	26.0	45.0	29.0	Clay Loam	0.04	8.14	4.62	0.32	<0.02	

These results apply only to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H2OSol= water soluble, AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate  
Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential  
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Reviewed by: Karen A. Secor  
Karen Secor, Soil Lab Supervisor



**Soil Analysis Report**  
**Canyon Fuel Company**  
 Dugout Canyon Mine  
 P.O. Box 1029  
 Wellington, UT 84542

Report ID: S0809301001  
 Date Reported: 10/16/2008  
 Work Order: S0809301

Project: Dugout Canyon Mine  
 Date Received: 9/16/2008

Lab ID	Sample ID	Available Sodium		Exchangeable Sodium
		meq/100g	meq/100g	
S0809301-001	WR Aug 1	1.02	0.78	
S0809301-002	WR Aug 2	0.42	0.24	
S0809301-003	WR Sept	0.71	0.60	
S0809301-004	G-16 TS	0.03	<0.01	

These results apply only to the samples tested.  
 Abbreviations for extractants: PE= Saturated Paste Extract, H2OSol= water soluble, AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate  
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 Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed by: Karen A. Secor  
 Karen Secor, Soil Lab Supervisor



**Soil Analysis Report**  
**Canyon Fuel Company**  
Dugout Canyon Mine  
P.O. Box 1029  
Wellington, UT 84542

Report ID: S0809301001

Project: Dugout Canyon Mine

Date Reported: 10/16/2008

Date Received: 9/16/2008

Work Order: S0809301

Lab ID	Sample ID	Total Sulfur		T.S. AB		Neutral. Potential		T.S. ABP		Sulfate Sulfur		Pyritic Sulfur		Organic Sulfur		PyriticS AB		PyriticS ABP		Total Carbon	
		%	1/1000t	1/1000t	1/1000t	1/1000t	1/1000t	1/1000t	1/1000t	1/1000t	%	1/1000t	%	1/1000t	%	1/1000t	%	1/1000t	%	1/1000t	%
S0809301-001	WR Aug 1	0.37	11.6	97.7	86.1	0.04	0.26	0.07	8.12	89.6	3.7										
S0809301-002	WR Aug 2	1.33	41.4	91.0	49.5	0.10	1.03	0.20	32.2	58.8	16.1										
S0809301-003	WR Sept	1.05	32.9	269	236	0.01	0.93	0.11	29.1	240	5.4										
S0809301-004	G-16 TS	0.02	0.52	198	197	0.01	<0.01	<0.01	<0.01	198	3.4										

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Reviewed by: Karen A. Secor

Karen Secor, Soil Lab Supervisor



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**Canyon Fuel Company**  
 Dugout Canyon Mine  
 P.O. Box 1029  
 Wellington, UT 84542

Report ID: S0809301001  
 Date Reported: 10/16/2008  
 Work Order: S0809301

Project: Dugout Canyon Mine  
 Date Received: 9/16/2008

Lab ID	Sample ID	TOC	
			%
S0809301-001	WR Aug 1		2.5
S0809301-002	WR Aug 2		15.0
S0809301-003	WR Sept		2.1
S0809301-004	G-16 TS		1.0

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 Karen Secor, Soil Lab Supervisor



**Soil Analysis Report**  
**Canyon Fuel Company**  
Dugout Canyon Mine  
P.O. Box 1029  
Wellington, UT 84542

Report ID: S0903055001

Project: Dugout Canyon Mine  
Date Received: 3/5/2009

Date Reported: 3/31/2009  
Work Order: S0903055

Lab ID	Sample ID	pH s.u.	Saturation %	Electrical Conductivity dS/m	Field Capacity %	Wilts Point %	PE			PE		
							Calcium meq/L	Magnesium meq/L	Potassium meq/L	Sodium meq/L	SAR	
S0903055-001	WR Sept 2	8.0	27.5	3.21	10.1	5.7	7.52	9.41	2.44	17.5	6.03	
S0903055-002	WR Sept 3	8.0	25.8	1.57	12.2	6.1	4.72	4.87	1.35	6.17	2.82	
S0903055-003	WR Sept 4	8.9	23.9	0.68	6.8	3.5	0.36	0.33	0.37	5.41	9.16	
S0903055-004	WR Oct 1	8.3	26.6	0.78	10.4	4.4	0.45	0.38	0.42	6.13	9.52	
S0903055-005	WR Oct 2	8.3	24.7	1.11	14.0	5.9	1.70	1.98	1.28	5.35	3.95	
S0903055-006	WR Oct 3	7.5	27.4	1.77	11.8	4.2	5.24	4.51	0.91	8.28	3.75	
S0903055-007	WR Nov 1	8.1	23.4	1.18	11.1	4.3	1.81	1.64	0.79	7.09	5.40	
S0903055-008	WR Nov 2	8.8	22.3	1.10	9.9	4.0	3.65	2.52	0.62	3.82	2.18	
S0903055-009	WR Dec 1	8.1	25.0	0.98	10.9	4.8	1.02	0.91	0.61	6.75	6.87	
S0903055-010	WR Dec 2	8.3	24.5	0.84	11.0	4.8	0.72	0.50	0.51	5.99	7.66	
S0903055-011	WR Jan	8.1	26.9	1.01	12.2	4.3	1.46	0.96	0.50	6.66	6.05	

These results apply only to the samples tested.

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Reviewed by: Karen A Secor  
Karen Secor, Soil Lab Supervisor



**Soil Analysis Report**  
**Canyon Fuel Company**  
Dugout Canyon Mine  
P.O. Box 1029  
Wellington, UT 84542

Report ID: S0903055001

Project: Dugout Canyon Mine

Date Received: 3/5/2009

Date Reported: 3/31/2009

Work Order: S0903055

Lab ID	Sample ID	Sand %	Silt %	Clay %	Texture	Boron ppm	Nitrogen			TKN %
							Nitrate ppm	Phosphorus ppm	Selenium ppm	
S0903055-001	WR Sept 2	78.0	14.0	8.0	Loamy Sand	0.46	0.4	2.88	<0.02	<0.01
S0903055-002	WR Sept 3	81.0	16.0	3.0	Loamy Sand	0.22	0.2	3.63	<0.02	<0.01
S0903055-003	WR Sept 4	76.0	16.0	8.0	Sandy Loam	0.74	0.1	2.63	<0.02	<0.01
S0903055-004	WR Oct 1	80.0	14.0	6.0	Loamy Sand	0.54	0.2	2.39	<0.02	<0.01
S0903055-005	WR Oct 2	71.0	26.0	3.0	Sandy Loam	0.22	0.2	3.27	<0.02	<0.01
S0903055-006	WR Oct 3	78.0	18.0	4.0	Loamy Sand	0.49	0.1	3.00	0.02	<0.01
S0903055-007	WR Nov 1	76.0	17.0	7.0	Sandy Loam	0.79	0.2	2.41	0.04	<0.01
S0903055-008	WR Nov 2	77.0	18.0	5.0	Loamy Sand	0.51	0.4	2.88	0.02	<0.01
S0903055-009	WR Dec 1	82.0	13.0	5.0	Loamy Sand	0.76	0.1	2.17	0.02	<0.01
S0903055-010	WR Dec 2	75.0	17.0	8.0	Sandy Loam	0.75	0.2	2.27	0.03	<0.01
S0903055-011	WR Jan	83.0	15.0	2.0	Loamy Sand	0.57	0.3	2.51	0.04	<0.01

These results apply only to the samples tested.

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Reviewed by: Karen A. Secor

Karen Secor, Soil Lab Supervisor



**Soil Analysis Report**  
Canyon Fuel Company  
Dugout Canyon Mine  
P.O. Box 1029  
Wellington, UT 84542

Report ID: S0903055001

Date Reported: 3/31/2009

Work Order: S0903055

Project: Dugout Canyon Mine  
Date Received: 3/5/2009

Lab ID	Sample ID	Available Exchangeable Sodium	
		meq/100g	meq/100g
S0903055-001	WR Sept 2	1.79	1.30
S0903055-002	WR Sept 3	0.56	0.40
S0903055-003	WR Sept 4	0.83	0.70
S0903055-004	WR Oct 1	0.85	0.69
S0903055-005	WR Oct 2	0.63	0.50
S0903055-006	WR Oct 3	0.63	0.40
S0903055-007	WR Nov 1	0.55	0.39
S0903055-008	WR Nov 2	0.29	0.20
S0903055-009	WR Dec 1	0.72	0.55
S0903055-010	WR Dec 2	0.54	0.39
S0903055-011	WR Jan	0.40	0.23

These results apply only to the samples tested.

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**Soil Analysis Report**

**Canyon Fuel Company**

Dugout Canyon Mine

P.O. Box 1029

Wellington, UT 84542

Report ID: S0903055001

Date Reported: 3/31/2009

Work Order: S0903055

Project: Dugout Canyon Mine

Date Received: 3/5/2009

Lab ID	Sample ID	Total Sulfur		T.S.		Neutral. Potential		T.S.		Sulfate		Pyritic Sulfur		Organic Sulfur		PyriticS		PyriticS		Total Carbon		
		%	1/1000t	AB	1/1000t	ABP	1/1000t	AB	1/1000t	ABP	1/1000t	%	1/1000t	AB	1/1000t	ABP	1/1000t	ABP	1/1000t	ABP	1/1000t	%
S0903055-001	WR Sept 2	1.02	31.8	233	202	0.07	0.85	0.10	26.7	207	8.5											
S0903055-002	WR Sept 3	0.42	13.2	159	146	0.16	0.25	0.02	7.79	152	3.6											
S0903055-003	WR Sept 4	0.48	15.1	312	297	0.12	0.35	0.01	11.0	301	5.9											
S0903055-004	WR Oct 1	0.61	18.9	86.8	67.9	0.07	0.41	0.13	12.9	73.8	16.7											
S0903055-005	WR Oct 2	0.10	3.26	298	295	<0.01	0.03	0.06	1.07	297	19.3											
S0903055-006	WR Oct 3	0.52	16.2	47.2	31.0	0.03	0.41	0.08	12.7	34.4	12.5											
S0903055-007	WR Nov 1	0.54	16.8	152	135	0.04	0.43	0.06	13.5	139	10.9											
S0903055-008	WR Nov 2	0.07	2.23	180	177	0.03	0.03	0.02	0.85	179	6.6											
S0903055-009	WR Dec 1	0.66	20.5	66.1	47.7	0.01	0.55	0.09	17.1	51.0	13.0											
S0903055-010	WR Dec 2	0.20	6.37	107	101	0.13	0.04	0.03	1.40	106	11.4											
S0903055-011	WR Jan	0.15	4.76	53.1	48.3	0.13	<0.01	0.02	<0.01	53.1	9.0											

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Karen Secor, Soil Lab Supervisor



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Report ID: S0903055001

Project: Dugout Canyon Mine

Date Received: 3/5/2009

Date Reported: 3/31/2009

Work Order: S0903055

Lab ID	Sample ID	TOC	
			%
S0903055-001	WR Sept 2		5.7
S0903055-002	WR Sept 3		1.7
S0903055-003	WR Sept 4		2.1
S0903055-004	WR Oct 1		15.7
S0903055-005	WR Oct 2		15.7
S0903055-006	WR Oct 3		11.9
S0903055-007	WR Nov 1		9.0
S0903055-008	WR Nov 2		4.5
S0903055-009	WR Dec 1		12.2
S0903055-010	WR Dec 2		10.1
S0903055-011	WR Jan		8.4

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