0004

C/007/039 Incoming
CC: Steve D.

COPY

#3517

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

March 25, 2010

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

RE: 2009 Annual Report for Dugout Canyon Mine, C/007/039

To Whom It May Concern:

Enclosed please find two copies of the Annual Report for 2009 for the Dugout Canyon Mine.

Upon review of the "commitment and conditions" section on the 2009 Annual Report Form, we have determined that certain commitments do not represent what is in the approved M&RP for inclusion in the annual report. We believe a review of the commitments is needed to determine what is to be included in the annual reports in the future.

In the confidential folder included with the annual report you will find a copy of the raptor survey and the mine maps. Each of the maps and the survey has been marked confidential and should be handled as such. Confidential archeological reports are available for review in the confidential binders on file at the Division's offices in Salt Lake City.

Per "R645-525.700 Public Notice of Proposed Mining. At least six months prior to mining, or within that period if approved by the Division, the underground mine operator will mail a notification to the water conservancy district, if any, in which the mine is located and to all owners and occupants of surface property and structures above the underground workings. The notification will include, at a minimum, identification of specific areas in which mining will take place, dates that specific areas will be undermined, and the location or locations where the operator's subsidence control plan may be examined." The compliance with this regulation was completed years ago, proof of compliance with the regulation was provided to the Division at that time. Therefore, the notification **is not** being resubmitted with the 2009 annual report.

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

Sincerely yours,

Vicky S. Miller

Vicky S. Miller

enclosures

cc: Chris Hansen (letter only)
Dave Spillman (enclosures)

File in:
☐ Confidential
☒ Shelf
☐ Expandable
Refer to Record No 0004 Date 03252010
In C/007/039, 2010, Incoming
For additional information Confidential

RECEIVED
MAR 29 2010
DIV. OF OIL, GAS & MINING

SUFCO Mine ☐ Skyline Mines ☐ Dugout / Soldier Canyon Mines

2009 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

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 Appendices to the Division by April 30, 2010. 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	Dugout Canyon Mine
Operator Name (If other then Permittee)	NA
Permit Expiration Date	March 17, 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, UT 84104
Number of Binders Submitted	2

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		N/A
NPDES/UPDES Permit(s)	UT0025593	UPDES Discharge Permit and Storm Water Discharge Permit	November 30, 2014
PSD Permit(s) (Air)	DAQE-001-1999	Air Quality Permit	N/A

Other

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** Yes	No	**Included** Included	**or** **DOGM file location** Vol, Chapter, Page
Excess Spoil Piles	☐	X	☐	
Refuse Piles	X	☐	X	
Impoundments	X	☐	X	
Other				
	☐	☐	☐	
	☐	☐	☐	

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

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?). Acid/toxic material to be buried within 30 days.
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: Repeat, see Engineering

Inspector:
Has the operator complied with this commitment? Yes ☐ No ☐
Inspector Comments:

Title: Movement of stockpiled topsoil, subsoil and boulders during refuse expansion
Objective: Facilitate expansion of waste rock site, protect topsoil/subsoil resource through relocation and addition of organic matter to stockpiles, salvage additional subsoil from northwest portion of site
Frequency: once
Status: in limbo until expansion
Reports: As builts of reconstructed stockpiles within six months
Citation: Refuse Pile Amendment Sec. 234.100, 234.300, and 242.100, Sec 243Plate RA 2-2

Operator: Has this commitment been acted on this year?
Yes ☐ No ☐ Not required this year. ☐ If yes, comment;
Operator Comments: Reporting in annual report not required by regulation or permit commitment.

Inspector:
Has the operator complied with this commitment? Yes ☐ No ☐
Inspector Comments:

Biology R645-301-300

Title: RAPTOR SURVEYS.
Objective: Obtain baseline data prior to mining disturbances including subsidence of cliff habitat. 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 Reports. Citation: Vol. Chap 3, Sec. 322, p. 3-13.

Operator: Has this commitment been acted on this year?
Yes X No ☐ Not required this year. ☐ If yes, comment;
Operator Comments:

Inspector:
Has the operator complied with this commitment? Yes ☐ No ☐
Inspector Comments:

Title: RAPTOR NESTS AND SUBSIDENCE.
Objective: Permittee and agencies will determine, nine months or the summer period prior to potential subsidence, methods of avoidance, protection or removal, and mitigation plans for raptor nests within the subsidence zone.
Frequency: Lease/project dependent.
Status: On going.
Reports: Annual Reports will provide over-flight results.
Citation: Vol. Chap 3, Sec. 332, p. 3-21, Sec. 333.300, p. 3-33, 3-34; Vol. Degas Wells, Sec. 322.200, p. 3-6; Condition 10 of March 16, 1998 permit.

Operator: Has this commitment been acted on this year?
Yes ☐ No ☐ Not required this year. ☐ If yes, comment;
Operator Comments: Reporting in annual report not required by regulation or permit commitment.

Inspector:
Has the operator complied with this commitment? Yes ☐ No ☐
Inspector Comments:

Title: WILDLIFE EXCLUSIONARY PERIODS.
Objective: Adhere to wildlife exclusionary periods during any surface disturbance activities including drilling, unless approved by the Division.
Frequency: Project dependent
Status: Ongoing
Reports: Report on mitigation activities approved by the Division if exclusionary periods could not be met.
Citation: Vol. 3, Chapter 3, Sec. 358, p. 3-55

Operator: Has this commitment been acted on this year?
Yes ☐ No ☐ Not required this year. ☐ If yes, comment;
Operator Comments: Reporting in annual report not required by regulation or permit commitment.

Inspector:
Has the operator complied with this commitment? Yes ☐ No ☐
Inspector Comments:

Title: **GOSHAWKS.**
Objective: Conduct ground surveys for goshawks in areas with mature stands of fir in Section 21 and 17 if areas are planned for mining facilities or subsidence.
Frequency: Project dependent
Status: Ongoing
Reports: annual, include report if undermining these areas.
Citation: Vol. Chap 3, Sec. 322.200, p. 3-18, Vol. Degas Wells, Sec. 322.200, p. 3-7.

Operator: Has this commitment been acted on this year?
Yes ☐ No ☐ Not required this year. ☐ If yes, comment;
Operator Comments: Reporting in annual report not required by regulation or permit commitment.

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 X No ☐ Not required this year. ☐ If yes, comment;
Operator Comments:

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). Acid/toxic material to be buried within 30 days.
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 X No ☐ Not required this year. ☐ If yes, comment;
Operator Comments:

Inspector:
Has the operator complied with this commitment? Yes ☐ No ☐
Inspector Comments:

Geology R645-301-600

Hydrology R645-301-700

Title: SEDIMENT CONTROL
Objective: Construction activities will not occur during major precipitation events and siltation structures will be installed prior to beginning site construction.
Frequency: After heavy precipitation events.
Status: On-going.
Reports: Annual.
Citation: Methane Degasification Amendment, Chapter 7, Page 7-16.
Operator: Has this commitment been acted on this year?

Yes ☐ No ☐ Not required this year. ☐ If yes, comment;
Operator Comments: Reporting in annual report not required by regulation or permit commitment.
Inspector:
Has the operator complied with this commitment? Yes ☐ No ☐
Inspector Comments:

Bonding & Insurance R645-301-800

Other Commitments

	Snotel Report

*Reminder: If equipment has been abandoned during 2009, 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 TOHER 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:

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 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 Yes	Required No	Included or Included	DOGM File location Vol, Chapter, Page	Comments
Department of Commerce, Annual Report Officers	X	☐	☐	General Chapter 1, stand alone 1" binder	
Other					
	☐	☐	☐		

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, 2009, 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		
Annual subsidence map	Subsidence		
Mine map	Gilson and Rock Canyon Seams - **Confidential**		
Other maps		**Confidential** Yes	No
		☐	☐

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 then by individual mine, please identify each of the mine's data in the list below.

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

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

*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	Feburary 9, 2010
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	December 16, 2009
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 274,000 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 abatment 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

Note: Previously, the topsoil and subsoil piles have been relocated to permitted areas near the main Dugout road. This opens up the refuse disposal area to its full permitted footprint. Deposition of refuse material is continuing to encroach into the new area.
Since the last inspection (August 25, 2009) an additional 46,493 tons of refuse have been hauled into the site. The remaining permitted capacity, at the time of this inspection is, therefore, 724,222 tons.

CERTIFICATION STATEMENT

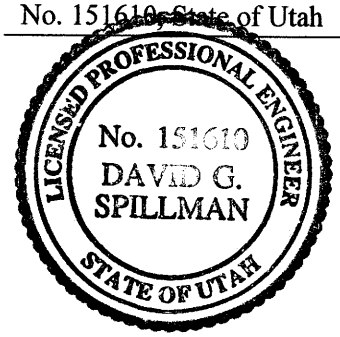
I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure 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 2/9/10

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	November 11, 2009
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	August 25, 2009
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 227,507 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 abatment 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

Note: Previously, the topsoil and subsoil piles have been relocated to permitted areas near the main Dugout road. This opens up the refuse disposal area to its full permitted footprint. Deposition of refuse material is continuing to encroach into the new area.
Aero-Graphics Inc. conducted an aerial overflight volumetric survey on May 6, 2009. Results of this aerial survey were used to calculate the remaining site capacity. A comparison between the May 6, 2009 topographic surface and the maximum permitted operational surface (RA PLATE 5-1) reviled that the remaining disposal capacity is 773,470 tons. Furthermore, records indicate that 2,755 tons of additional refuse was hauled to the site between May 6, 2009 and the date of this inspection. It is therefore estimated that approximately 770,715 tons of permitted capacity remain at the time of this inspection.

CERTIFICATION STATEMENT

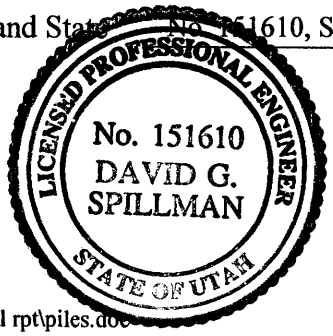
I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure has been maintained in accordance with 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 11/11/09

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	August 12, 2009
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	May 6, 2009
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

Placement and compaction of all refuse appears to have been completed in accordance with the approved plan. The facility was idle at the time of the inspection.

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 abatment 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

Note: Previously, the topsoil and subsoil piles have been relocated to permitted areas near the main Dugout road. This opens up the refuse disposal area to its full permitted footprint. Deposition of refuse material is continuing to encroach into the new area.
Aero-Graphics Inc. conducted an aerial overflight volumetric survey earlier in the day. Results of this aerial survey will valadate the volume of material deposited on site.

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 8/12/09

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

[Cer... Stamp]

LICENSED PROFESSIONAL ENGINEER
No. 151610
DAVID G.
SPILLMAN
STATE OF UTAH

*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	March 31, 2009
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 30, 2009
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 213,286 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 abatment 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

Note: Since my last inspection, the topsoil and subsoil piles have been relocated to permitted areas near the main Dugout road. This opens up the refuse disposal area to its full permitted footprint. Deposition of refuse material is now beginning to encroach into the new area.

CERTIFICATION STATEMENT

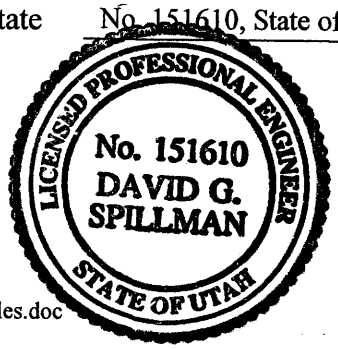
I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure 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 3/31/09

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

[Cert. Stamp]



IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			Page 1 of 2
Permit Number	*ACT/007/039*	**Report Date**	*02/09/10*
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	*12/16/09*
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 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 5,895.9 feet

- 60% = 0.47 acre-feet @ an elevation of 5,894.7 feet

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 outslopes of embankments, etc.

Approximately eight inches of snow covered the pond at the time of inspection. Any water that may have been present, beneath the snow, would have been of negligible quantity.

This pond has never discharged.

8. **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:** _____

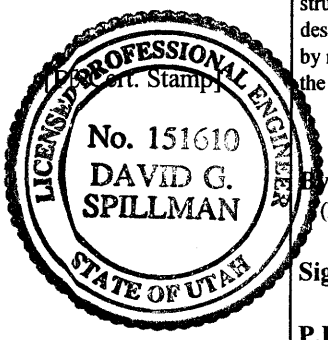
CERTIFIED REPORT

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:

[Prof. Engr. 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: *David G. Spillman, Technical Services Manager*
(Full Name and ~~Title~~)

Signature: David G. Spillman **Date:** 2/9/10

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

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			Page 1 of 2
Permit Number	*C/007/039*	**Report Date**	1/4/10
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

Inspection Date	*11/6/09*
Inspected By	*Vicky Miller*
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	*Routine Quarterly Inspection and Monthly Inspections*

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 90 %

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 outslopes of embankments, etc.

The slopes/embankments, rim and pond surface were cleared of wind blown trash. The sediment trap and sediment basin reporting to the sediment pond were cleaned regularly during the 4th quarter. Inlet and outlet of the pond were inspected and observed to be functioning as designed. The pond had ice on the surface and some snow on the slopes/embamkment.

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 2 of 2

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 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:** Vicky D Miller **Date:** 1-4-10

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			Page 1 of 2
Permit Number	*C/007/039*		1/4/10
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	*11/12/09*
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

The sediment storage capacity is greater than 60% 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 outslopes of embankments, etc.

The pond was dry. Both the inlet and outlet to the pond were in good repair. No discharge from the pond to date in 2009. Ditches discharging to the pond were inspected and determined to be in good working order. The ditch around the stockpile and reporting to the pond had recently been cleaned out.

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 2 of 2

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:** Vicky S Mellen **Date:** 1-4-10

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: [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	*C/007/039*	**Report Date**	11/10/09
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

Inspection Date	*7/14/09, 8/11/09, 8/13/09, 9/22/09*
Inspected By	*Vicky Miller*
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	*Routine Quarterly Inspection and Monthly Inspections*

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 100 %

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 outslopes of embankments, etc.

The pond has been cleaned recently. The slopes/embankments, rim and pond surface were cleared of wind blown trash. The sediment trap and sediment basin reporting to the sediment pond were cleaned regularly during the 3rd quarter. Inlet and outlet of the pond were inspected and observed to be functioning as designed.

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 2 of 2

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:** Cindy S Miller **Date:** 11/10/09

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			Page 1 of 2
Permit Number	*ACT/007/039*	**Report Date**	*11/11/09*
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	*08/25/09*
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.

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

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 outslopes of embankments, etc.

The pond was dry at the time of the inspection. The accumulation of sediment has not yet reached the allowed 60% level.

This pond has never discharged.

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:** _____

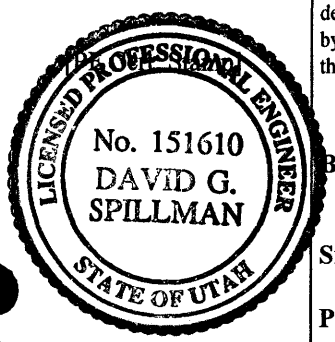
CERTIFIED REPORT

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:** *11/11/09*

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

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			Page 1 of 3
Permit Number	*ACT/007/039*	**Report Date**	*08/12/08*
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

Inspection Date	*06/30/09*
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*

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 - 100% = 0.34 acre-feet @ an elevation of 6,953.56 feet

- 60% = 0.20 acre-feet @ an elevation of 6,951.66 feet

3. Principle and emergency spillway elevations.

Principal Spillway Elevation - 6,964.44 feet

Emergency Spillway Elevation - 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 outslopes of embankments, etc.

Nielson Construction was contracted to clean the sediment accumulation out of the Dugout Canyon Mine sedimentation pond. Cleanout operations were conducted from June 23rd through June 30th. Nielson Construction also cleaned the pond in 2003, 2004, 2006, 2007 and 2008. 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.

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 subsequent cleanouts. During the 2009 cleanout, it was observed that Nielson Construction cleaned sediment down to the same solid bottom.

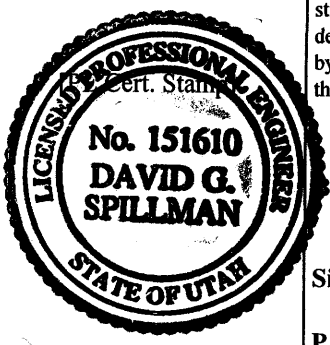
5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure 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:** _____ **Date:** *08/12/09* **P.E. Number & State:** *No. 151610, State of Utah*

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			Page 1 of 2
Permit Number	*C/007/039*	**Report Date**	8/7/09
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

Inspection Date	*4/29, 5/12, 6/23, 6/24 of 2009*
Inspected By	*Vicky Miller*
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	*Routine Quarterly Inspection and Monthly Inspections*

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 60%.

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 outslopes of embankments, etc.

The pond will be cleaned in July, preparations were being made during the 6/24 inspection. Sediment accumulation is evident on the east end of the pond. The slopes/embankments, rim and pond surface were cleared of wind blown trash. The sediment trap and sediment basin reporting to the sediment pond were cleaned regularly during the 2nd quarter. Inlet and outlet of the pond were inspected and observed to be functioning as designed.

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:** Vicky L Miller **Date:** 8/7/09

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			Page 1 of 2
Permit Number	*C/007/039*	**Report Date**	5/6/09
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 1/20, 2/24, 3/17, 3/30 of 2009*
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 80%.

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 outslopes of embankments, etc.

The pond did not discharge in January, February or March of 2009. The pond slopes and rim were cleared of wind blown trash during March. The sediment trap and sediment basin reporting to the sediment pond were cleaned regularly during the 1st quarter. Sediment accumulation is evident on the east end of the pond. Inlet and outlet of the pond were inspected and observed to be functioning as designed.

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:** Vicky A Miller **Date:** 5/6/09

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			Page 1 of 2
Permit Number	*C/007/039*		2/25/09
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	*2/24/09*
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 outslopes 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 to date in 2009. Ditches discharging to the pond were inspected and determined to be in good working order.

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:** Vicky D Miller **Date:** 2/25/09

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: [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

Waste Rock Sampling
Subsidence Map
Subsidence Report
Confidential - Raptor Report
Snotel Report

INTER-MOUNTAIN LABS

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Soil Analysis Report

Canyon Fuel Company

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

Report ID: S0903399001

Project: Dugout Canyon Mine
Date Received: 3/26/2009

Date Reported: 4/21/2009
Work Order: S0903399

Lab ID	Sample ID	pH	Saturation	Electrical Conductivity	Field Capacity	Wilt Point	PE Calcium	PE Magnesium	PE Potassium	PE Sodium	SAR
		s.u.	%	dS/m	%	%	meq/L	meq/L	meq/L	meq/L	
S0903399-001	WR Feb 1	8.9	23.0	0.76	11.2	3.0	0.51	0.62	0.41	6.16	8.22
S0903399-002	WR Mar 1	8.8	31.6	0.79	11.5	3.6	0.15	0.12	0.16	6.91	18.8
S0903399-003	WR Mar 2	8.8	31.0	0.87	10.4	4.0	0.27	0.21	0.18	7.53	15.5
S0903399-004	WR Mar 3	9.0	27.8	0.80	12.1	3.9	0.22	0.20	0.15	7.37	16.0
S0903399-005	WR Mar 4	8.9	28.0	0.87	10.9	3.9	0.16	0.15	0.20	7.52	19.3

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

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Soil Analysis Report

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Report ID: S0903399001

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Date Received: 3/26/2009

Date Reported: 4/21/2009
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Lab ID	Sample ID	Sand	Silt	Clay	Texture	Boron	Nitrogen Nitrate	Phosphorus	Selenium	TKN
		%	%	%		ppm	ppm	ppm	ppm	%
S0903399-001	WR Feb 1	76.0	17.0	7.0	Sandy Loam	0.27	<0.1	4.23	<0.02	0.14
S0903399-002	WR Mar 1	79.0	12.0	9.0	Loamy Sand	0.23	<0.1	3.41	<0.02	0.34
S0903399-003	WR Mar 2	80.0	12.0	8.0	Loamy Sand	0.24	<0.1	3.37	<0.02	0.36
S0903399-004	WR Mar 3	77.0	13.0	10.0	Sandy Loam	0.40	<0.1	2.81	<0.02	0.28
S0903399-005	WR Mar 4	73.0	16.0	11.0	Sandy Loam	0.27	<0.1	2.81	<0.02	0.27

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
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Karen Secor, Soil Lab Supervisor

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Report ID: S0903399001

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Date Reported: 4/21/2009
Work Order: S0903399

Lab ID	Sample ID	Available Sodium meq/100g	Exchangeable Sodium meq/100g
S0903399-001	WR Feb 1	0.71	0.57
S0903399-002	WR Mar 1	1.33	1.12
S0903399-003	WR Mar 2	1.84	1.61
S0903399-004	WR Mar 3	1.86	1.65
S0903399-005	WR Mar 4	1.50	1.28

These results apply only to the samples tested.

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Karen Secor, Soil Lab Supervisor

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Lab ID	Sample ID	Total Sulfur %	T.S. AB t/1000t	Neutral. Potential t/1000t	T.S. ABP t/1000t	Sulfate Sulfur %	Pyritic Sulfur %	Organic Sulfur %	PyriticS AB t/1000t	PyriticS ABP t/1000t	Total Carbon %
S0903399-001	WR Feb 1	0.05	1.56	43.5	41.9	0.03	<0.01	0.02	<0.01	43.5	1.6
S0903399-002	WR Mar 1	0.15	4.64	57.3	52.6	0.06	0.01	0.07	0.36	56.9	16.3
S0903399-003	WR Mar 2	0.19	5.90	90.3	84.4	0.02	0.04	0.14	1.11	89.2	16.8
S0903399-004	WR Mar 3	0.14	4.27	32.4	28.1	0.03	0.04	0.07	1.20	31.2	12.0
S0903399-005	WR Mar 4	0.11	3.54	33.3	29.7	<0.01	0.05	0.06	1.53	31.8	11.1

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
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Soil Analysis Report

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Date Received: 3/26/2009

Date Reported: 4/21/2009
Work Order: S0903399

Lab ID	Sample ID	TOC %
S0903399-001	WR Feb 1	1.1
S0903399-002	WR Mar 1	15.6
S0903399-003	WR Mar 2	15.7
S0903399-004	WR Mar 3	11.6
S0903399-005	WR Mar 4	10.7

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
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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

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Soil Analysis Report

Canyon Fuel Company

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

Report ID: S0905397001

Project: Dugout Canyon Mine
Date Received: 5/22/2009

Date Reported: 6/19/2009
Work Order: S0905397

Lab ID	Sample ID	pH	Saturation	Electrical Conductivity	Field Capacity	Wilt Point	PE Calcium	PE Magnesium	PE Potassium	PE Sodium	SAR
		s.u.	%	dS/m	%	%	meq/L	meq/L	meq/L	meq/L	
S0905397-001	WR Apr 1	7.7	27.4	1.30	11.9	3.9	2.85	2.42	0.96	9.35	5.76
S0905397-002	WR Apr 2	7.9	34.7	0.91	14.0	4.0	0.73	0.55	0.41	9.37	11.7
S0905397-003	WR Apr 3	8.0	29.7	1.09	18.7	4.1	0.85	0.61	0.39	11.3	13.2
S0905397-004	WR Apr 4	8.0	27.2	1.53	13.5	3.7	5.15	4.07	1.10	10.0	4.66
S0905397-005	WR May 1	8.1	30.1	1.36	18.7	4.1	1.38	0.92	0.45	13.4	12.5
S0905397-006	WR May 2	7.7	25.4	1.44	15.0	4.4	3.44	3.04	1.01	10.8	6.00
S0905397-007	Cuttings 1	8.1	48.0	1.72	23.9	14.5	3.51	2.60	0.46	13.7	7.82

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

INTER-MOUNTAIN LABS

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Soil Analysis Report
Canyon Fuel Company
Dugout Canyon Mine
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Wellington, UT 84542

Report ID: S0905397001

Project: Dugout Canyon Mine
Date Received: 5/22/2009

Date Reported: 6/19/2009
Work Order: S0905397

Lab ID	Sample ID	Sand	Silt	Clay	Texture	Boron	Nitrogen Nitrate	Phosphorus	Selenium	TKN
		%	%	%		ppm	ppm	ppm	ppm	%
S0905397-001	WR Apr 1	75.0	16.0	9.0	Sandy Loam	0.70	<0.1	2.74	0.02	<0.01
S0905397-002	WR Apr 2	77.0	13.0	10.0	Sandy Loam	0.59	<0.1	2.45	0.02	0.21
S0905397-003	WR Apr 3	83.0	11.0	6.0	Loamy Sand	0.66	<0.1	2.81	<0.02	<0.01
S0905397-004	WR Apr 4	78.0	13.0	9.0	Sandy Loam	0.84	0.3	2.99	0.03	<0.01
S0905397-005	WR May 1	83.0	11.0	6.0	Loamy Sand	0.58	0.2	2.70	0.02	<0.01
S0905397-006	WR May 2	79.0	13.0	8.0	Loamy Sand	0.83	1.7	2.67	0.03	<0.01
S0905397-007	Cuttings 1	34.0	35.0	31.0	Clay Loam	0.93	<0.1	2.75	0.02	<0.01

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
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Soil Analysis Report

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Dugout Canyon Mine
P.O. Box 1029
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Report ID: S0905397001

Project: Dugout Canyon Mine
Date Received: 5/22/2009

Date Reported: 6/19/2009
Work Order: S0905397

Lab ID	Sample ID	Available Sodium meq/100g	Exchangeable Sodium meq/100g
S0905397-001	WR Apr 1	0.60	0.34
S0905397-002	WR Apr 2	1.02	0.70
S0905397-003	WR Apr 3	0.93	0.59
S0905397-004	WR Apr 4	0.59	0.32
S0905397-005	WR May 1	0.94	0.53
S0905397-006	WR May 2	0.60	0.32
S0905397-007	Cuttings 1	2.13	1.47

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
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Soil Analysis Report

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Dugout Canyon Mine
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Report ID: S0905397001

Project: Dugout Canyon Mine
Date Received: 5/22/2009

Date Reported: 6/19/2009
Work Order: S0905397

Lab ID	Sample ID	Total Sulfur %	T.S. AB t/1000t	Neutral. Potential t/1000t	T.S. ABP t/1000t	Sulfate Sulfur %	Pyritic Sulfur %	Organic Sulfur %	PyriticS AB t/1000t	PyriticS ABP t/1000t
S0905397-001	WR Apr 1	1.10	34.4	147	112	0.15	0.78	0.17	24.4	122
S0905397-002	WR Apr 2	0.35	10.8	51.8	40.9	0.10	0.15	0.10	4.69	47.1
S0905397-003	WR Apr 3	0.40	12.4	65.5	53.0	0.14	0.18	0.08	5.62	59.8
S0905397-004	WR Apr 4	1.13	35.2	195	160	0.19	0.75	0.19	23.4	172
S0905397-005	WR May 1	0.30	9.49	64.3	54.8	0.08	0.16	0.06	5.00	59.3
S0905397-006	WR May 2	0.75	23.4	31.8	8.41	0.19	0.43	0.13	13.4	18.3
S0905397-007	Cuttings 1	0.20	6.08	119	113	0.01	0.18	0.01	5.62	114

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

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

Report ID: S0905397001

Project: Dugout Canyon Mine
Date Received: 5/22/2009

Date Reported: 6/19/2009
Work Order: S0905397

Lab ID	Sample ID	Total Carbon %	TOC %
S0905397-001	WR Apr 1	7.9	6.1
S0905397-002	WR Apr 2	12.5	11.9
S0905397-003	WR Apr 3	9.5	8.7
S0905397-004	WR Apr 4	6.5	4.2
S0905397-005	WR May 1	8.8	8.0
S0905397-006	WR May 2	7.5	7.1
S0905397-007	Cuttings 1	2.0	0.6

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

INTER-MOUNTAIN LABS

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Soil Analysis Report

Canyon Fuel Company

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

Report ID: S0909252001

Project: Dugout Canyon Mine
Date Received: 9/14/2009

Date Reported: 10/8/2009
Work Order: S0909252

Lab ID	Sample ID	pH	Saturation	Electrical Conductivity	Field Capacity	Wilt Point	PE Calcium	PE Magnesium	PE Potassium	PE Sodium	SAR
		s.u.	%	dS/m	%	%	meq/L	meq/L	meq/L	meq/L	
S0909252-001	Aug 2009	8.2	27.6	0.89	16	5.9	0.83	1.09	0.45	6.06	6.19

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
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Soil Analysis Report

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

Report ID: S0909252001

Project: Dugout Canyon Mine
Date Received: 9/14/2009

Date Reported: 10/8/2009
Work Order: S0909252

Lab ID	Sample ID	Sand	Silt	Clay	Texture	Nitrogen Nitrate	Selenium	Boron	Phosphorus	TKN
		%	%	%		ppm	ppm	ppm	ppm	%
S0909252-001	Aug 2009	74.0	17.0	9.0	Sandy Loam	0.9	<0.02	0.55	2.89	<0.01

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
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P.O. Box 1029
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Report ID: S0909252001

Project: Dugout Canyon Mine
Date Received: 9/14/2009

Date Reported: 10/8/2009
Work Order: S0909252

Lab ID	Sample ID	Available Sodium meq/100g	Exchangeable Sodium meq/100g	Total Carbon %	TOC %
S0909252-001	Aug 2009	0.56	0.40	8.7	6.8

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
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Report ID: S0909252001

Project: Dugout Canyon Mine
Date Received: 9/14/2009

Date Reported: 10/8/2009
Work Order: S0909252

Lab ID	Sample ID	Total Sulfur %	T.S. AB t/1000t	Neutral. Potential t/1000t	T.S. ABP t/1000t	Sulfate Sulfur %	Pyritic Sulfur %	Organic Sulfur %	PyriticS AB t/1000t	PyriticS ABP t/1000t
S0909252-001	Aug 2009	1.13	35.2	160	125	0.10	0.86	0.17	27.0	133

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
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Soil Analysis Report

Canyon Fuel Company

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

Report ID: S0912144001

Project: Dugout Canyon Mine
Date Received: 12/10/2009

Date Reported: 1/11/2010
Work Order: S0912144

Lab ID	Sample ID	pH	Saturation	Electrical Conductivity	Field Capacity	Wilt Point	PE Calcium	PE Magnesium	PE Potassium	PE Sodium	SAR
		s.u.	%	dS/m	%	%	meq/L	meq/L	meq/L	meq/L	
S0912144-001	WR Aug2 09	7.9	36.7	0.82	12	3.0	0.80	0.93	0.48	4.25	4.57
S0912144-002	WR Sept 09	7.9	48.4	0.60	9.6	2.2	0.64	0.73	0.37	2.86	3.47
S0912144-003	WR Oct 09	8.0	41.3	0.76	13	2.3	0.50	0.46	0.33	4.77	6.90
S0912144-004	WR Nov 09	7.9	42.5	0.68	5.8	1.9	0.43	0.45	0.32	3.88	5.85

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

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Report ID: S0912144001

Project: Dugout Canyon Mine
Date Received: 12/10/2009

Date Reported: 1/11/2010
Work Order: S0912144

Lab ID	Sample ID	Sand	Silt	Clay	Texture	Nitrogen Nitrate	Selenium	Boron	Available Phosphorus	TKN
		%	%	%		ppm	ppm	ppm	ppm	%
S0912144-001	WR Aug2 09	84.0	12.0	4.0	Loamy Sand	0.2	<0.02	0.61	2.85	0.10
S0912144-002	WR Sept 09	87.0	10.0	3.0	Sand	<0.1	<0.02	0.55	3.21	0.28
S0912144-003	WR Oct 09	86.0	12.0	2.0	Sand	0.2	<0.02	0.74	3.22	0.24
S0912144-004	WR Nov 09	88.0	10.0	2.0	Sand	0.1	0.02	0.66	2.75	0.13

These results apply only to the samples tested.

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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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Report ID: S0912144001

Project: Dugout Canyon Mine
Date Received: 12/10/2009

Date Reported: 1/11/2010
Work Order: S0912144

Lab ID	Sample ID	Available Sodium meq/100g	Exchangeable Sodium meq/100g	Total Carbon %	TOC %
S0912144-001	WR Aug2 09	0.51	0.35	19.6	19.2
S0912144-002	WR Sept 09	0.38	0.24	19.9	19.4
S0912144-003	WR Oct 09	0.72	0.52	17.5	16.9
S0912144-004	WR Nov 09	0.56	0.39	13.8	13.3

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
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Karen Secor, Soil Lab Supervisor

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Soil Analysis Report

Canyon Fuel Company

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Report ID: S0912144001

Project: Dugout Canyon Mine
Date Received: 12/10/2009

Date Reported: 1/11/2010
Work Order: S0912144

Lab ID	Sample ID	Total Sulfur %	T.S. AB t/1000t	Neutral. Potential t/1000t	T.S. ABP t/1000t	Sulfate Sulfur %	Pyritic Sulfur %	Organic Sulfur %	PyriticS AB t/1000t	PyriticS ABP t/1000t
S0912144-001	WR Aug2 09	1.90	59.2	35.9	-23.4	0.06	1.54	0.30	48.0	-12.1
S0912144-002	WR Sept 09	1.33	41.5	41.3	-0.24	<0.01	1.12	0.25	35.0	6.30
S0912144-003	WR Oct 09	1.32	41.1	46.0	4.86	0.02	1.04	0.25	32.6	13.4
S0912144-004	WR Nov 09	1.47	45.9	37.9	-7.97	0.01	1.21	0.25	37.7	0.25

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: S1001192001

Project: Dugout Canyon Mine
Date Received: 1/15/2010

Date Reported: 2/18/2010
Work Order: S1001192

Lab ID	Sample ID	pH	Saturation	Electrical Conductivity	Field Capacity	Wilt Point	PE Calcium	PE Magnesium	PE Potassium	PE Sodium	SAR
		s.u.	%	dS/m	%	%	meq/L	meq/L	meq/L	meq/L	
S1001192-001	WR Nov2 09	8.7	32.8	0.64	5.3	2.4	0.87	0.97	0.46	3.40	3.55
S1001192-002	WR Nov3 09	8.6	32.6	0.62	9.6	2.7	1.00	1.17	0.53	2.88	2.77
S1001192-003	WR Nov4 09	8.6	37.0	0.48			0.91	0.93	0.44	2.27	2.37
S1001192-004	WR Nov5 09	8.5	34.0	0.51	9.0	2.7	0.58	0.66	0.47	2.85	3.61
S1001192-005	WR Dec1 09	8.5	33.1	0.66	7.9	2.8	1.07	1.12	0.50	4.12	3.93
S1001192-006	WR Dec2 09	8.4	34.0	0.52	9.2	3.2	0.78	0.89	0.45	2.58	2.82
S1001192-007	WR Dec3 09	8.2	35.4	0.72	14	3.1	1.45	1.56	0.59	3.25	2.65
S1001192-008	WR Dec4 09	8.2	39.0	0.60	6.2	3.0	1.00	1.16	0.49	2.82	2.72
S1001192-009	WR Dec5 09	8.1	45.5	0.67	5.1	2.9	1.25	1.46	0.43	3.51	3.01
S1001192-010	WR Dec6 09	8.0	42.6	0.40	11	2.8	0.56	0.71	0.28	1.85	2.32
S1001192-011	WR Jan1 10	8.7	39.3	0.47	7.7	3.0	0.27	0.25	0.32	3.15	6.16
S1001192-012	WR Jan2 10	8.7	33.8	0.64	9.7	3.1	0.96	0.99	0.44	3.52	3.56

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

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

Report ID: S1001192001

Project: Dugout Canyon Mine
Date Received: 1/15/2010

Date Reported: 2/18/2010
Work Order: S1001192

Lab ID	Sample ID	Sand %	Silt %	Clay %	Texture	Nitrogen Nitrate ppm	Selenium ppm	Boron ppm	Available Phosphorus ppm	TKN %
S1001192-001	WR Nov2 09	83.0	11.0	6.0	Loamy Sand	<0.1	<0.02	0.51	3.74	0.04
S1001192-002	WR Nov3 09	81.0	14.0	5.0	Loamy Sand	<0.1	<0.02	0.56	2.64	0.07
S1001192-003	WR Nov4 09	90.0	8.0	2.0	Sand	<0.1	<0.02	0.64	2.79	0.41
S1001192-004	WR Nov5 09	83.0	12.0	5.0	Loamy Sand	<0.1	<0.02	0.57	3.01	0.14
S1001192-005	WR Dec1 09	84.0	12.0	4.0	Loamy Sand	<0.1	<0.02	0.59	2.64	0.22
S1001192-006	WR Dec2 09	87.0	10.0	3.0	Sand	<0.1	<0.02	0.80	2.97	0.35
S1001192-007	WR Dec3 09	80.0	14.0	6.0	Loamy Sand	<0.1	<0.02	0.61	2.64	0.08
S1001192-008	WR Dec4 09	86.0	11.0	3.0	Loamy Sand	<0.1	<0.02	0.45	2.57	0.37
S1001192-009	WR Dec5 09	83.0	16.0	1.0	Loamy Sand	<0.1	<0.02	0.39	2.64	0.54
S1001192-010	WR Dec6 09	82.0	17.0	1.0	Loamy Sand	<0.1	<0.02	0.39	2.72	0.41
S1001192-011	WR Jan1 10	85.0	14.0	1.0	Loamy Sand	<0.1	<0.02	0.42	2.89	0.44
S1001192-012	WR Jan2 10	86.0	11.0	3.0	Loamy Sand	<0.1	<0.02	0.40	2.80	0.19

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
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Soil Analysis Report

Canyon Fuel Company

Dugout Canyon Mine
P.O. Box 1029
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Report ID: S1001192001

Project: Dugout Canyon Mine
Date Received: 1/15/2010

Date Reported: 2/18/2010
Work Order: S1001192

Lab ID	Sample ID	Available Sodium meq/100g	Exchangeable Sodium meq/100g	Total Carbon %	TOC %
S1001192-001	WR Nov2 09	0.32	0.21	10.2	7.4
S1001192-002	WR Nov3 09	0.31	0.22	12.5	11.0
S1001192-003	WR Nov4 09	0.27	0.19	19.1	17.4
S1001192-004	WR Nov5 09	0.39	0.29	12.3	10.3
S1001192-005	WR Dec1 09	0.31	0.18	11.0	9.2
S1001192-006	WR Dec2 09	0.28	0.19	16.8	14.0
S1001192-007	WR Dec3 09	0.29	0.17	9.8	8.5
S1001192-008	WR Dec4 09	0.27	0.16	29.2	27.4
S1001192-009	WR Dec5 09	0.25	0.09	36.8	35.4
S1001192-010	WR Dec6 09	0.22	0.14	32.2	31.2
S1001192-011	WR Jan1 10	0.56	0.44	21.6	21.0
S1001192-012	WR Jan2 10	0.31	0.19	10.9	8.3

These results apply only to the samples tested.

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Report ID: S1001192001

Project: Dugout Canyon Mine
Date Received: 1/15/2010

Date Reported: 2/18/2010
Work Order: S1001192

Lab ID	Sample ID	Total Sulfur %	T.S. AB t/1000t	Neutral. Potential t/1000t	T.S. ABP t/1000t	Sulfate Sulfur %	Pyritic Sulfur %	Organic Sulfur %	PyriticS AB t/1000t	PyriticS ABP t/1000t
S1001192-001	WR Nov2 09	0.58	18.1	240	222	0.03	0.44	0.11	13.8	226
S1001192-002	WR Nov3 09	1.51	47.3	129	82.1	0.05	1.26	0.20	39.4	89.9
S1001192-003	WR Nov4 09	1.69	52.9	141	88.0	0.09	1.33	0.26	41.7	99.2
S1001192-004	WR Nov5 09	0.62	19.3	163	144	0.02	0.46	0.15	14.2	149
S1001192-005	WR Dec1 09	0.86	26.9	152	126	0.01	0.71	0.14	22.1	130
S1001192-006	WR Dec2 09	1.92	60.1	237	177	0.26	1.36	0.30	42.5	195
S1001192-007	WR Dec3 09	0.84	26.2	106	79.8	0.02	0.69	0.13	21.4	84.5
S1001192-008	WR Dec4 09	1.14	35.7	151	115	0.11	0.83	0.20	26.1	125
S1001192-009	WR Dec5 09	1.12	34.9	110	75.4	0.10	0.72	0.30	22.5	87.8
S1001192-010	WR Dec6 09	0.59	18.5	87.9	69.4	0.04	0.35	0.20	11.0	76.9
S1001192-011	WR Jan1 10	0.30	9.38	49.5	40.1	0.06	0.07	0.17	2.26	47.2
S1001192-012	WR Jan2 10	0.50	15.5	220	204	<0.01	0.37	0.12	11.5	208

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

DUGOUT CANYON MINE - Visual Checks for Subsidence - 2009

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 Degas Wells (Various Sites)

April 29
May 7, 12, 14, 26
June 1, 8, 11, 24, 29, 30

July 1, 2, 14, 15, 20, 21, 28 - 30
August 20, 21
September 4, 11, 23

October 7, 16
November 9, 10

No surface irregularities or surface cracks were observed.

Water Monitoring was Performed in the Following Areas

Dugout Creek Area and Pace Canyon Area – 3/12, 3/23, 3/26, 5/7, 5/14, 5/15, 5/17, 5/20, 5/21, 5/22, 6/2, 6/15, 6/20, 7/2, 7/3, 7/8, 7/14, 7/24, 10/12, 10/13, 10/16, 10/20

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 June 2009 and October 2009. Additional soil was added into the subsidence cracks previously repaired during the reclamation of the G-7 pad in 2009, no additional cracking observed.

□

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 THURSDAY: FEBRUARY 25 , 2010

BASIN Data Site Name	ELEV. (Ft)	SNOW WATER EQUIVALENT Current	Average	% Avg	TOTAL PRECIPITATION Current	Average	% Avg
UTAH							
BEAR RIVER							
TRIAL LAKE	9992	10.4	19.8	53	9.9	19.7	50
HAYDEN FORK	9212	8.5	12.6	67	11.9	16.5	72
LILY LAKE	9156	7.3	10.4	70	8.6	13.8	62
MONTE CRISTO	8960	13.6	23.6	58	13.9	20.4	68
TONY GROVE LAKE	8386	20.0	28.8	69	20.8	28.5	73
USU DOC DANIEL	8270	17.3	-M	*	17.6	-M	*
FRANKLIN BASIN	8085	14.4	22.3	65	19.3	24.5	79
BURTS MILLER RANCH	8000	3.0	-M	*	7.3	-M	*
BUG LAKE	7950	7.4	16.4	45	10.8	15.6	69
GARDEN CITY SUMMIT	7600	9.9	-M	*	12.0	-M	*
TEMPLE FORK	7406	10.3	-M	*	11.6	-M	*
KLONDIKE NARROWS	7400	12.2	-M	*	15.3	-M	*
LITTLE BEAR	6544	7.3	12.3	59	12.4	19.2	65
TONY GROVE RS	6250	9.4	-M	*	11.9	-M	*
Basin wide percent of average				61			68
WEBER-OGDEN RIVERS							
TRIAL LAKE	9992	10.4	19.8	53	9.9	19.7	50
THAYNES CANYON	9230	14.6	18.2	80	15.5	19.2	81
CHALK CREEK #1	8993	13.0	19.0	68	13.1	20.1	65
MONTE CRISTO	8960	13.6	23.6	58	13.9	20.4	68
DRY BREAD POND	8350	9.4	18.3	51	10.8	16.6	65
BEAVER DIVIDE	8280	7.9	9.8	81	9.4	14.2	66
LIGHTNING RIDGE	8215	9.3	-M	*	12.5	-M	*
HORSE RIDGE	8160	9.3	19.4	48	12.4	19.8	63
CHALK CREEK #2	8158	6.9	12.4	56	9.0	13.3	68
BEN LOMOND PEAK	8000	24.3	32.8	74	28.5	35.4	81
FARMINGTON	8000	16.8	26.1	64	20.7	26.6	78
PARRISH CREEK	7740	13.2	-M	*	17.1	-M	*
SMITH & MOREHOUSE	7600	6.9	11.9	58	8.3	15.1	55
PARLEY'S SUMMIT	7500	9.6	14.8	65	12.6	17.1	74
HARDSCRABBLE	7250	12.4	13.3	93	17.1	24.5	70
FARMINGTON LOWER	6779	13.5	-M	*	18.2	-M	*
BEN LOMOND TRAIL	5829	14.0	18.2	77	17.7	24.4	73
Basin wide percent of average				66			69

PROVO R.-UTAH LAKE-JORDAN R.

TRIAL LAKE	9992	10.4	19.8	53	9.9	19.7	50
SNOWBIRD	9640	20.8	27.0	77	21.3	30.0	71
CLEAR CREEK #1	8908	9.7	16.1	60	12.9	14.8	87
MILL-D NORTH	8967	12.7	20.1	63	14.6	21.2	69
BRIGHTON	8750	14.2	19.6	72	16.4	22.5	73
BEAVER DIVIDE	8280	7.9	9.8	81	9.4	14.2	66
LOOKOUT PEAK	8200	14.7	19.3	76	19.0	24.7	77
TIMPANOGOS DIVIDE	8140	14.6	19.6	74	18.5	20.0	93
PAYSON R.S.	8066	10.7	16.4	65	11.5	13.1	88
DANIELS-STRAWBERRY	8037	7.1	14.6	49	10.8	16.5	65
CLEAR CREEK #2	7659	7.2	11.8	61	9.6	12.0	80
CASCADE MOUNTAIN	7702	12.4	-M	*	15.2	-M	*
PARLEY'S SUMMIT	7500	9.6	14.8	65	12.6	17.1	74
DRY FORK	7093	7.7	13.5	57	9.4	15.9	59
LOUIS MEADOW	6700	13.5	-M	*	14.1	-M	*
Basin wide percent of average				66			73

TOOELE VALLEY-VERNON CREEK

ROCKY BASIN-SETTLEME	8900	11.7	20.2	58	14.6	19.4	75
MINING FORK	8221	11.2	13.7	82	16.0	17.6	91
VERNON CREEK	7401	8.5	9.6	89	10.3	12.7	81
Basin wide percent of average				72			82

GREEN RIVER

SPIRIT LK	10223	8.0	-M	*	12.9	-M	*
STEEL CREEK PARK	10200	8.2	12.1	68	9.5	12.4	77
HEWINTA	9519	5.2	8.7	60	7.3	11.2	65
TROUT CREEK	9518	7.3	7.6	96	9.3	9.8	95
HOLE-IN-ROCK	9150	4.2	5.4	78	5.9	5.6	105
HICKERSON PARK	9145	5.1	5.6	91	7.1	6.0	118
KING'S CABIN	8724	8.1	9.0	90	8.5	9.5	89
Basin wide percent of average				79			87

DUCHESNE RIVER

LAKEFORK BASIN	10966	10.5	15.9	66	11.6	16.5	70
FIVE POINTS LAKE	10940	10.7	13.0	82	11.2	15.2	74
BROWN DUCK	10600	9.0	14.4	63	9.3	15.5	60
CHEPETA	10592	9.7	10.9	89	8.0	12.1	66
LAKEFORK #1	10415	8.2	10.0	82	7.7	11.2	69
TRIAL LAKE	9992	10.4	19.8	53	9.9	19.7	50
MOSBY MTN.	9510	6.3	8.9	71	7.7	10.7	72
INDIAN CANYON	9175	7.8	9.2	85	8.5	11.4	75
LAKEFORK #3	8464	5.2	-M	*	5.6	-M	*
STRAWBERRY DIVIDE	8123	8.3	15.7	53	10.1	17.5	58
DANIELS-STRAWBERRY	8037	7.1	14.6	49	10.8	16.5	65
CURRANT CREEK	8000	7.2	9.1	79	8.5	12.2	70
ROCK CREEK	7889	6.3	7.5	84	6.5	10.3	63

Basin wide percent of average				68			65

PRICE-SAN RAFAEL

SEELEY CREEK	9910	9.2	11.7	79	7.4	10.6	70
BUCK FLAT	9430	10.6	14.7	72	10.7	15.4	69
RED PINE RIDGE	9009	8.1	13.6	60	11.3	14.5	78
MAMMOTH-COTTONWOOD	8727	11.6	16.7	69	10.0	13.0	77
TIMBERLINE	8684	8.1	-M	*	9.6	-M	*
WHITE RIVER #1	8641	7.2	11.1	65	7.7	11.5	67
Basin wide percent of average				69			72

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 THURSDAY: MARCH 4 , 2010

BASIN Data Site Name	ELEV. (Ft)	SNOW WATER EQUIVALENT Current	Average	% Avg	TOTAL PRECIPITATION Current	Average	% Avg
UTAH							
BEAR RIVER							
TRIAL LAKE	9992	10.8	21.1	51	10.0	21.0	48
HAYDEN FORK	9212	8.7	13.5	64	12.1	17.5	69
LILY LAKE	9156	7.4	11.1	67	8.8	14.6	60
MONTE CRISTO	8960	13.7	25.4	54	14.1	21.6	65
TONY GROVE LAKE	8386	21.0	30.8	68	22.1	30.1	73
USU DOC DANIEL	8270	17.6	-M	*	17.9	-M	*
FRANKLIN BASIN	8085	14.6	24.0	61	19.7	25.9	76
BURTS MILLER RANCH	8000	3.0	-M	*	7.5	-M	*
BUG LAKE	7950	7.7	17.5	44	11.0	16.5	67
GARDEN CITY SUMMIT	7600	10.2	-M	*	12.2	-M	*
TEMPLE FORK	7406	10.4	-M	*	11.9	-M	*
KLONDIKE NARROWS	7400	12.4	-M	*	15.6	-M	*
LITTLE BEAR	6544	7.6	13.1	58	12.4	20.4	61
TONY GROVE RS	6250	9.4	-M	*	11.9	-M	*
Basin wide percent of average				58			66
WEBER-OGDEN RIVERS							
TRIAL LAKE	9992	10.8	21.1	51	10.0	21.0	48
THAYNES CANYON	9230	15.2	19.9	76	16.2	20.5	79
CHALK CREEK #1	8993	13.2	20.4	65	13.4	21.2	63
MONTE CRISTO	8960	13.7	25.4	54	14.1	21.6	65
DRY BREAD POND	8350	9.5	19.5	49	10.8	17.7	61
BEAVER DIVIDE	8280	8.2	10.4	79	9.8	15.1	65
LIGHTNING RIDGE	8215	9.4	-M	*	12.5	-M	*
HORSE RIDGE	8160	9.6	20.7	46	12.5	20.9	60
CHALK CREEK #2	8158	7.2	13.2	55	9.1	14.0	65
BEN LOMOND PEAK	8000	24.8	35.2	70	29.6	37.5	79
FARMINGTON	8000	17.7	28.1	63	21.8	28.3	77
PARRISH CREEK	7740	13.7	-M	*	17.7	-M	*
SMITH & MOREHOUSE	7600	7.0	12.6	56	8.4	16.0	53
PARLEY'S SUMMIT	7500	10.2	15.5	66	13.1	18.1	72
HARDSCRABBLE	7250	12.8	15.0	85	17.6	25.9	68
FARMINGTON LOWER	6779	13.8	-M	*	19.0	-M	*
BEN LOMOND TRAIL	5829	14.5	19.4	75	18.3	25.9	71
Basin wide percent of average				63			67

PROVO R.-UTAH LAKE-JORDAN R.

TRIAL LAKE	9992	10.8	21.1	51	10.0	21.0	48
SNOWBIRD	9640	21.6	29.1	74	21.7	31.8	68
CLEAR CREEK #1	8908	10.0	17.1	58	13.5	15.8	85
MILL-D NORTH	8967	13.4	21.5	62	15.2	22.5	68
BRIGHTON	8750	14.8	20.9	71	17.1	23.9	72
BEAVER DIVIDE	8280	8.2	10.4	79	9.8	15.1	65
LOOKOUT PEAK	8200	15.2	20.5	74	19.4	26.2	74
TIMPANOGOS DIVIDE	8140	14.8	20.8	71	18.8	21.4	88
PAYSON R.S.	8066	11.1	17.6	63	11.8	14.0	84
DANIELS-STRAWBERRY	8037	7.6	15.3	50	11.0	17.5	63
CLEAR CREEK #2	7659	7.4	12.6	59	9.9	12.9	77
CASCADE MOUNTAIN	7702	12.6	-M	*	15.6	-M	*
PARLEY'S SUMMIT	7500	10.2	15.5	66	13.1	18.1	72
DRY FORK	7093	8.0	15.1	53	9.6	16.9	57
LOUIS MEADOW	6700	14.1	-M	*	15.0	-M	*
Basin wide percent of average				64			70

TOOELE VALLEY-VERNON CREEK

ROCKY BASIN-SETTLEME	8900	12.1	21.9	55	15.1	20.8	73
MINING FORK	8221	11.7	15.6	75	16.2	19.0	85
VERNON CREEK	7401	8.7	10.5	83	10.5	13.6	77
Basin wide percent of average				68			78

GREEN RIVER

SPIRIT LK	10223	8.1	-M	*	13.0	-M	*
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TROUT CREEK	9518	7.4	8.4	88	9.3	10.5	89
HOLE-IN-ROCK	9150	4.2	5.9	71	6.0	5.9	102
HICKERSON PARK	9145	5.2	6.0	87	7.0	6.4	109
KING'S CABIN	8724	8.1	9.5	85	8.5	10.1	84
Basin wide percent of average				74			83

DUCHESNE RIVER

LAKEFORK BASIN	10966	10.8	16.8	64	11.9	17.5	68
FIVE POINTS LAKE	10940	11.0	14.2	77	11.5	16.2	71
BROWN DUCK	10600	9.2	15.4	60	9.6	16.6	58
CHEPETA	10592	9.9	11.7	85	8.2	13.0	63
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DANIELS-STRAWBERRY	8037	7.6	15.3	50	11.0	17.5	63
CURRANT CREEK	8000	7.2	9.9	73	8.6	12.9	67
ROCK CREEK	7889	6.4	8.2	78	6.5	11.0	59
Basin wide percent of average				66			63

PRICE-SAN RAFAEL

SEELEY CREEK	9910	9.6	12.6	76	7.9	11.4	69
BUCK FLAT	9430	10.9	15.7	69	11.1	16.5	67
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MAMMOTH-COTTONWOOD	8727	12.1	18.1	67	10.3	13.7	75
TIMBERLINE	8684	8.4	-M	*	9.8	-M	*
WHITE RIVER #1	8641	7.7	11.8	65	8.0	12.1	66
Basin wide percent of average				67			71

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

Not Applicable

APPENDIX D

Mine Maps

As required under R645-302-525-270

CONTENTS

Confidential

APPENDIX E

Other Information

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

CONTENTS

Not Applicable