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Annual Report

This Annual Report shows information the Division has for your mine. Submit the completed document and any additional information identified in the Appendices to the Division by the date specified in the cover letter. During a complete inspection an inspector will check and verify the information.

GENERAL INFORMATION

Company Name	Canyon Fuel Company, LLC	Mine Name	Dugout Mine
Permit Number	C/007/0039	Permit expiration Date	3/17/2018
Operator Name	Same	Phone Number	+1 (435) 637-6360
Mailing Address	P O Box 1029	Email	dspillman@archcoal.com
City	Wellington		
State	Utah	Zip Code	84542

		DOGM File Location or Annual Report Location
Excess Spoil Piles	☐ Required ☒ Not Required	
Refuse Piles	☒ Required ☐ Not Required	
Impoundments	☒ Required ☐ Not Required	
Other:		

OPERATOR COMMENTS

REVIEWER COMMENTS ☐ Met Requirements ☐ Did Not meet Requirements

COMMITMENTS AND CONDITIONS

The Permittee is responsible for ensuring annual technical commitments in the Mining and Reclamation Plan 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 additional written response is required, it should be filed as an attachment to this report.

Title: ANNUAL RAPTOR SURVEYS
Objective: To obtain baseline data prior to mining disturbances including subsidence of cliff habitat and any surface disturbances (construction, reclamation, or exploration). Conduct follow-up surveys within one year if nests were observed during the baseline surveys and if the nest or raptors could be impacted from mining (subsidence or proximity to surface facilities).
Frequency: Annually
Status: Ongoing
Reports: Annual
Citation: MRP, Volume 2, Chapter 3, Section 322, Page 3-13

Operator Comments

See Appendix C.

Reviewer Comments ☐ Met Requirements ☐ Did Not Meet Requirements

Title: SUBSIDENCE MONITORING VISUAL INSPECTIONS
Objective: To check for surface subsidence features.
Frequency: Annually
Status: Ongoing
Reports: Annual
Citation: MRP, Volume 3, Chapter 5, Section 525.100, page 5-29

Operator Comments

See Appendix C.

Reviewer Comments ☐ Met Requirements ☐ Did Not Meet Requirements

Title: WASTE ROCK SAMPLING
Objective: To protect ground and surface water and potentially substantiate lesser cover at the waste rock site.
Frequency: One sample per 5,000 cubic yards taken to the waste rock site. Acid/toxic material to be buried within 30 days and should be compacted, and isolated from water infiltration.
Status: Ongoing. **Please indicate the volumes or tonnage placed during the year into the refuse pile and the remaining capacity in the pile.**
Reports: Annual report, and to be included in RA attachment 5-4.
Citation: MRP, Chapter 5, Section 513.400, Section 528.300, Section 536 and Refuse Pile Amendment Volume, Section 536.200

Operator Comments

See Appendix C.

Reviewer Comments ☐ Met Requirements ☐ Did Not Meet Requirements

Title: SEALING OF WELLS
Objective: Permanent casing and sealing of wells when no longer in use.
Frequency: Once upon termination of use.
Status: N/A
Reports: Report on status of wells
Citation: Chp. 6, Section 631, Chp. 7, Section 765

Operator Comments

Degas Wells G-2 thru G-7 , G-9 thru G-14, G-16, G-18, G-19, G-22, G-25, G-26, G-30, G-31are sealed.

Reviewer Comments ☐ Did Not Meet Requirements ☐ Met Requirements

FUTURE COMMITMENTS AND CONDITIONS

The following commitments are not required for the current annual report year, but will be required by the permittee in the future as indicated by the "status" field. These commitments are included for information only, and do not currently require action. If you feel that the commitment is no longer relevant or needs to be revised, please contact the Division.

Title: OVERBURDEN SAMPLING AND ANALYSIS
Objective: Generate quality substitute topsoil
Frequency: At Final Reclamation
Status: long term
Reports: at final reclamation
Citation: MRP, Chapter 2, Section 224, Section 233.100, .300, and .400.

Title: NUTRIENTS AND AMENDMENTS
Objective: Establishment of vegetation
Frequency: At final reclamation
Status: Long term
Reports: At final reclamation
Citation: MRP, Chapter 2, Section 243; Refuse Pile Amendment Volume, Section 243.

OPERATOR COMMENTS (OPTIONAL)

REVIEWER COMMENTS

REPORTING OF OTHER TECHNICAL DATA

Please list other technical data or information that was not included in the form above, but is required under the approved plan, which must be periodically submitted to the Division.

Please list attachments:

Reviewer Comments

MAPS

Copies of mine maps, current and up-to-date, are to be provided to the Division as an attachment to this report in accordance with the requirements of R645-301-525.240. The map copies shall be made in accordance with 30 CFR 75.1200 as required by MSHA. Mine maps are not considered confidential.

Map Name	Map Number	Included		Confidential	
		Yes	No	Yes	No
Annual subsidence map	Appendix C	☒	☐	☐	☒
Mine Map - Gilson Seam	Appendix B	☒	☐	☐	☒
Mine Map - Rock Canyon Seam	Appendix B	☒	☐	☐	☒
		☐	☐	☐	☐
		☐	☐	☐	☐

Reviewer Comments ☐ Met Requirements ☐ Did Not Meet Requirements

Please note that mine maps are not considered confidential as specified by R645-300-124.300.

Dugout Canyon Mine Refuse Pile
2012 Annual Assessment

The following information has been determined for the 2012 activities conducted at the Dugout Canyon Mine Refuse Pile:

- 2012 Total Delivered Tonnage – 63,787 Tons
- Estimated Density of the Placed and Compacted Refuse – 112 lbs/ft^3
- Calculated 2012 Placed Refuse Volume – 1,140,174 ft^3 (42,229 yd^3)
- Permitted Capacity Remaining at Year's End – 2,817,069 ft^3 (157,756 Tons @ 112 lbs/ft^3)

David G. Spillman, P.E.
Technical Services Manager
P.E. No. 151610-2202, State of Utah

LICENSED PROFESSIONAL ENGINEER
No. 151610
DAVID G.
SPILLMAN
4/2/13
STATE OF UTAH

APPENDIX A

Certified Reports

Excess Spoil Piles
Refuse Piles
Impoundments

As required under R645-301-514

CONTENTS

Refuse Pile Inspections
Impoundment Inspections

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE

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

GENERAL INFORMATION

Report Date	March 16, 2012
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 16, 2012
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 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

The site was idle at the time of the inspection.

CERTIFICATION STATEMENT

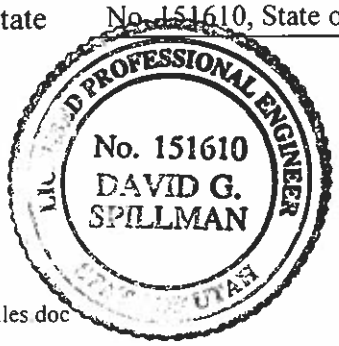
I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure has been maintained in accordance with 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 _____ Date 3/16/12

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

[Cert. Stamp]



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GENERAL INFORMATION

Report Date	July 16, 2012
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 24, 2012
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 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

The site was active at the time of the inspection.

CERTIFICATION STATEMENT

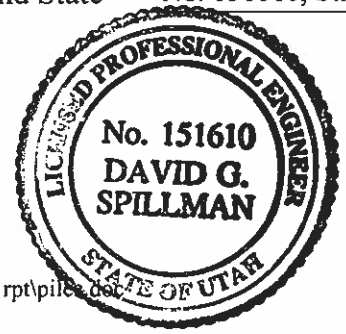
I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure has been maintained in accordance with 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 7/16/12

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

[Cert. Stamp]



INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE

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

GENERAL INFORMATION

Report Date	September 26, 2012
Permit Number	C/007/039
Company Name	Canyon Fuel Company, LLC - Dugout Canyon Mine

EXCESS SPOIL PILE OR REFUSE PILE IDENTIFICATION

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

Inspection Date	September 26, 2012
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 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

The site was inactive at the time of the inspection and Nielson has demobilized their cat. At this point in time, it's expected that the Castle Valley Prep Plant will be idle until next year.

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 _____ Date 9/26/12

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

[Cert. Stamp]

LICENSED PROFESSIONAL ENGINEER
No. 151610
DAVID G.
SPILLMAN
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	December 3, 2012
Permit Number	C/007/039
Company Name	Canyon Fuel Company, LLC - Dugout Canyon Mine

EXCESS SPOIL PILE OR REFUSE PILE IDENTIFICATION

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

Inspection Date	November 30, 2012
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 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

The site was inactive at the time of the inspection. At this point in time, it's expected that the Castle Valley Prep Plant will be idle until May of 2013.

CERTIFICATION STATEMENT

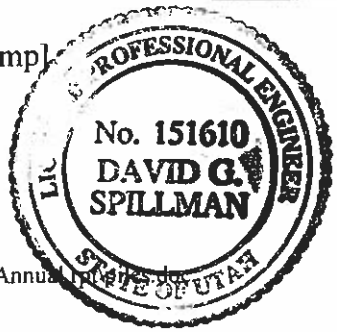
I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure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

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

Signature David G. Spillman Date 12/3/12

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

[Cert. Stamp]



Dugout Sediment Pond	Date	Time	Inspector(s) Signature	Quarterly Inspection Form
	3/26/2012	845	Verby L Mullins/SM	

Site: 002	Action Required			Person Notified	Date Corrected	Comments/Remarks
Permit # UT0025593	Yes/No	OK	N/A			
Stability of Pond						
Pond stability/weakness		X				
Erosion/Stability of banks		X				
Vegetation problem around pond	No					
Hazardous Condition						
Any visible contaminants	No					
Hazardous condition observed	No					
Inlet Conditions						
Inlet functioning	Yes					
Culvert(s)/ditches	Yes					
Principle & Emergency Spillways						
Water Discharging (rate)	No					
Pond water level			X			
Spillway is clear of debris	Yes					
Oil skimmer		X				
Emergency spillway		X				
Primary spillway		X				

Other Useful Information	Value	Comments/Remarks	Sediment Storage Capacity/ Elevation	Value	Comments/Remarks
Last cleaning date for pond	July/Aug 2011		100% sediment storage capacity (acre/ft)	0.4	Elev. 6954.4 feet
Primary Spillway elevation (ft)	6964		60% sediment storage capacity (acre/ft)	0.24	Elev. 6952.2 feet
Emergency Spillway elevation (ft)	6964.5		Current sediment Volume (est.)	10%	
			Remaining storage capacity (est.)	90%	

Other Observations: Pond approximately 3/4 full of water, no discharge at time of inspection.

Dugout Sediment Pond	Date	Time	Inspector(s) Signature	Quarterly Inspection Form
	6/21/2012	625	VSM Vicky A Miller	

Site: 002	Action Required			Person Notified	Date Corrected	Comments/Remarks
Permit # UT0025593	Yes/No	OK	N/A			
Stability of Pond						
Pond stability/weakness		X				
Erosion/Stability of banks		X				
Vegetation problem around pond	No					
Hazardous Condition						
Any visible contaminants	No					
Hazardous condition observed	No					
Inlet Conditions						
Inlet functioning	Yes					
Culvert(s)/ditches	Yes					
Principle & Emergency Spillways						
Water Discharging (rate)	No					
Pond water level			X			
Spillway is clear of debris	Yes					
Oil skimmer		X				
Emergency spillway		X				
Primary spillway		X				

Other Useful Information	Value	Comments/Remarks	Sediment Storage Capacity/ Elevation	Value	Comments/Remarks
Last cleaning date for pond	July/Aug 2011		100% sediment storage capacity (acre/ft)	0.4	Elev. 6954.4 feet
Primary Spillway elevation (ft)	6964		60% sediment storage capacity (acre/ft)	0.24	Elev. 6952.2 feet
Emergency Spillway elevation (ft)	6964.5		Current sediment Volume (est.)	10%	
			Remaining storage capacity (est.)	90%	

Other Observations: Pond approximately 1/2 full of water, no discharge at time of inspection.

No rain in months, pond is not likely to discharge during 2nd Quarter

Dugout Sediment Pond	Date	Time	Inspector(s) Signature	Quarterly Inspection Form
	8/21/2012	925	VSM VSmith	

Site: 002 Permit # UT0025593	Action Required			Person Notified	Date Corrected	Comments/Remarks
	Yes/No	OK	N/A			
Stability of Pond						
Pond stability/weakness		X				
Erosion/Stability of banks		X				
Vegetation problem around pond	No					
Hazardous Condition						
Any visible contaminants	No					
Hazardous condition observed	No					
Inlet Conditions						
Inlet functioning	Yes					
Culvert(s)/ditches	Yes					
Principle & Emergency Spillways						
Water Discharging (rate)	No					
Pond water level			X			Pond was 1/2 full of water
Spillway is clear of debris	Yes					
Oil skimmer		X				
Emergency spillway		X				
Primary spillway		X				

Other Useful Information	Value	Comments/Remarks	Sediment Storage Capacity/ Elevation	Value	Comments/Remarks
Last cleaning date for pond	July/Aug 2011		100% sediment storage capacity (acre/ft)	0.4	Elev. 6954.4 feet
Primary Spillway elevation (ft)	6964		60% sediment storage capacity (acre/ft)	0.24	Elev. 6952.2 feet
Emergency Spillway elevation (ft)	6964.5		Current sediment Volume (est.)	20%	
			Remaining storage capacity (est.)	80%	

Other Observations: Pond approximately 1/2 full of water, no discharge at time of inspection.

Pond is not likely to discharge during 3rd Quarter

Dugout Sediment Pond	Date	Time	Inspector(s) Signature	Quarterly Inspection Form
	11/26/2012	1445	VSM Vicky A Miller	

Site: 002	Action Required			Person Notified	Date Corrected	Comments/Remarks
Permit # UT0025593	Yes/No	OK	N/A			
Stability of Pond						
Pond stability/weakness		X				
Erosion/Stability of banks		X				
Vegetation problem around pond	No					
Hazardous Condition						
Any visible contaminants	No					
Hazardous condition observed	No					
Inlet Conditions						
Inlet functioning		X				
Culvert(s)/ditches		X				
Principle & Emergency Spillways						
Water Discharging (rate)		X				
Pond water level		X				Pond was 3/4 full of water
Spillway is clear of debris		X				
Oil skimmer		X				
Emergency spillway		X				
Primary spillway		X				

Other Useful Information	Value	Comments/Remarks	Sediment Storage Capacity/ Elevation	Value	Comments/Remarks
Last cleaning date for pond	July/Aug 2011		100% sediment storage capacity (acre/ft)	0.4	Elev. 6954.4 feet
Primary Spillway elevation (ft)	6964		60% sediment storage capacity (acre/ft)	0.24	Elev. 6952.2 feet
Emergency Spillway elevation (ft)	6964.5		Current sediment Volume (est.)	35%	
			Remaining storage capacity (est.)	65%	

Other Observations: No discharge at time of inspection.

Pond is not likely to discharge during 4th Quarter

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			Page 1 of 2
ermit Number	*ACT/007/039*	**Report Date**	*12/07/12*
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	*12/04/12*
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 (as designed) - 6,964.44 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.

At the time of the inspection, there had been no discharge from the pond during December.

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.

At the time of inspection, the water elevation was approximately 1.5 feet below the top of the primary spillway. The sediment clean-out marker was submerged and not visible. However, based on the visible accumulation of sediment at the northern end of the pond, it is believed that the sediment storage is nearing clean-out volume. It is hereby recommended that sediment accumulations be cleaned from the pond in the spring of 2013. Typically, clean-out in the May / June timeframe has worked best in the past and should be our target timeframe for 2013.

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

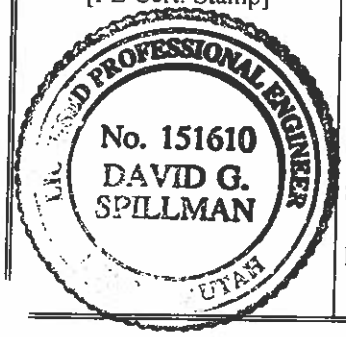
IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
1. Is impoundment designed and constructed in accordance with the approved plan?	X	
2. Is impoundment free of instability, structural weakness, or any other hazardous condition?	X	
. Has the impoundment met all applicable performance standards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

COMMENTS AND OTHER INFORMATION

Certification Statement:

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

[PE Cert. Stamp]



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

Signature: David G. Spillman **Date:** *12/07/12*

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

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			Page 1 of 2
Permit Number	*ACT/007/039*	**Report Date**	*03/16/12*
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	*03/16/12*
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.

There were approximately 1-2 inches of water impounded at time of inspection and the existing sediment level remains below the 60% cleanout level.

This pond has never discharged.

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

Qualification Statement

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

Signature: _____ **Date:** _____

CERTIFIED REPORT

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

COMMENTS AND OTHER INFORMATION

Certification Statement:

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

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

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

Signature: David Spillman **Date:** 3/16/12

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

Waste Rock Sediment Pond	Date	Time	Inspector(s) Signature	Quarterly Inspection Form
	3/28/2012	907	Vanly A Mellen SM	

Site: 004	Action Required			Person Notified	Date Corrected	Comments/Remarks
Permit # UT0025593	Yes/No	OK	N/A			
Stability of Pond						
Pond stability/weakness		X				
Erosion/Stability of banks		X				
Vegetation problem around pond	No					
Hazardous Condition						
Any visible contaminants	No					
Hazardous condition observed	No					
Inlet Conditions						
Inlet functioning		X				
Culvert(s)/ditches		X				
Principle & Emergency Spillways						
Water Discharging (rate)			NA			
Pond water level			NA			Dry at time of inspection.
Spillway is clear of debris	Yes					
Oil skimmer			NA			
Emergency spillway		X				
Primary spillway			NA			

Other Useful Information	Value	Comments/Remarks	Sediment Storage Capacity/ Elevation	Value	Comments/Remarks
Last cleaning date for pond	NA		100% sediment storage capacity (acre/ft)	0.47	Elev.5895.9 feet
Primary Spillway elevation (ft)	NA		60% sediment storage capacity (acre/ft)	0.24	Elev. 5894.7 feet
Emergency Spillway elevation (ft)	5902		Current sediment Volume (est.)		
			Remaining storage capacity (est.)		

Other Observations: _____

Waste Rock Sediment Pond	Date	Time	Inspector(s) Signature	Quarterly Inspection Form
	5/31/2012	1130	VSM Vicky L. Mullen	

Site: 004	Action Required			Person Notified	Date Corrected	Comments/Remarks
Permit # UT0025593	Yes/No	OK	N/A			
Stability of Pond						
Pond stability/weakness		X				
Erosion/Stability of banks		X				
Vegetation problem around pond	No					
Hazardous Condition						
Any visible contaminants	No					
Hazardous condition observed	No					
Inlet Conditions						
Inlet functioning		X				
Culvert(s)/ditches		X				
Principle & Emergency Spillways						
Water Discharging (rate)			NA			
Pond water level			NA			Dry at time of inspection.
Spillway is clear of debris	Yes					
Oil skimmer			NA			
Emergency spillway		X				
Primary spillway			NA			

Other Useful Information	Value	Comments/Remarks	Sediment Storage Capacity/ Elevation	Value	Comments/Remarks
Last cleaning date for pond	NA		100% sediment storage capacity (acre/ft)	0.47	Elev.5895.9 feet
Primary Spillway elevation (ft)	NA		60% sediment storage capacity (acre/ft)	0.24	Elev. 5894.7 feet
Emergency Spillway elevation (ft)	5902		Current sediment Volume (est.)		
			Remaining storage capacity (est.)		

Other Observations: _____

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			Page 1 of 2
Permit Number	*ACT/007/039*	Report Date	*07/16/12*
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	*05/24/12*
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.

There were approximately 1-2 inches of water impounded at time of inspection and the existing sediment level remains below the 60% cleanout level.

This pond has never discharged.

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

Qualification Statement

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

Signature: _____ **Date:** _____

CERTIFIED REPORT

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

COMMENTS AND OTHER INFORMATION

Certification Statement:

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

[PE Cert. Stamp]

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

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

Signature: David G. Spillman **Date:** 7/16/12

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

Waste Rock Sediment Pond	Date	Time	Inspector(s) Signature	Quarterly Inspection Form
	8/13/2012	920	VSM VS Miller	

Site: 004 Permit # UT0025593	Action Required			Person Notified	Date Corrected	Comments/Remarks
	Yes/No	OK	N/A			
Stability of Pond						
Pond stability/weakness		X				
Erosion/Stability of banks		X				
Vegetation problem around pond	No					
Hazardous Condition						
Any visible contaminants	No					
Hazardous condition observed	No					
Inlet Conditions						
Inlet functioning		X				
Culvert(s)/ditches		X				
Principle & Emergency Spillways						
Water Discharging (rate)			NA			
Pond water level			NA			Dry at time of inspection.
Spillway is clear of debris	Yes					
Oil skimmer			NA			
Emergency spillway		X				
Primary spillway			NA			

Other Useful Information	Value	Comments/Remarks	Sediment Storage Capacity/ Elevation	Value	Comments/Remarks
Last cleaning date for pond	NA		100% sediment storage capacity (acre/ft)	0.47	Elev.5895.9 feet
Primary Spillway elevation (ft)	NA		60% sediment storage capacity (acre/ft)	0.24	Elev. 5894.7 feet
Emergency Spillway elevation (ft)	5902		Current sediment Volume (est.)		
			Remaining storage capacity (est.)		

Other Observations: _____

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			Page 1 of 2
Permit Number	*ACT/007/039*	**Report Date**	*09/26/12*
Mine Name	*Dugout Canyon Mine*		
Company Name	*Canyon Fuel Company, LLC*		
Impoundment Identification	**Impoundment Name**	*Refuse Pile Sedimentation Pond*	
	Impoundment Number	*None*	
	UPDES Permit Number	*UT0025593*	
	MSHA ID Number	*Impoundment –None (Refuse Pile 1211-UT-09-01890-01)*	

IMPOUNDMENT INSPECTION

Inspection Date	*09/26/12*
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.

There were approximately 1-2 inches of water impounded at time of inspection and the existing sediment level remains below the 60% cleanout level.

This pond has never discharged.

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

Qualification Statement

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

Signature: _____ **Date:** _____

CERTIFIED REPORT

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

COMMENTS AND OTHER INFORMATION

Certification Statement:

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

[PE Seal, if required]

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

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

Signature: David Spillman Date: 9/26/12

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

Waste Rock Sediment Pond	Date	Time	Inspector(s) Signature	Quarterly Inspection Form
	10/24/2012	1035	VSM Vicky A Muller	

Site: 004 Permit # UT0025593	Action Required			Person Notified	Date Corrected	Comments/Remarks
	Yes/No	OK	N/A			
Stability of Pond						
Pond stability/weakness		X				
Erosion/Stability of banks		X				
Vegetation problem around pond	No					
Hazardous Condition						
Any visible contaminants	No					
Hazardous condition observed	No					
Inlet Conditions						
Inlet functioning		X				
Culvert(s)/ditches		X				
Principle & Emergency Spillways						
Water Discharging (rate)			NA			
Pond water level			NA			Dry at time of inspection.
Spillway is clear of debris	Yes					
Oil skimmer			NA			
Emergency spillway		X				
Primary spillway			NA			

Other Useful Information	Value	Comments/Remarks	Sediment Storage Capacity/ Elevation	Value	Comments/Remarks
Last cleaning date for pond	NA		100% sediment storage capacity (acre/ft)	0.47	Elev.5895.9 feet
Primary Spillway elevation (ft)	NA		60% sediment storage capacity (acre/ft)	0.24	Elev. 5894.7 feet
Emergency Spillway elevation (ft)	5902		Current sediment Volume (est.)		
			Remaining storage capacity (est.)		

Other Observations: _____

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			Page 1 of 2
'ermit Number	*ACT/007/039*	**Report Date**	*12/03/12*
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	*11/30/12*
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 'stability, 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.

There was no water impounded at time of inspection and the existing sediment level remains below the 60% cleanout level.

This pond has never discharged.

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

Qualification Statement

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

Signature: _____ **Date:** _____

CERTIFIED REPORT

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

COMMENTS AND OTHER INFORMATION

Certification Statement:

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

(PE Cert. Stamp)

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

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

Signature: David G. Spillman **Date:** 12/3/12

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

Pace Cyn.Sediment Basin	Date	Time	Inspector(s) Signature	Quarterly Inspection Form
	3/15/2012	1132	Unity D Miller SM	

Site: 006	Action Required			Person	Date	
Permit # UT0025593	Yes/No	OK	N/A	Notified	Corrected	Comments/Remarks
Stability of Pond						
Basin stability/weakness		X				
Erosion/Stability of banks		X				
Vegetation problem around basin	No					
Hazardous Condition						
Any visible contaminants	No					
Hazardous condition observed	No					
Inlet Conditions						
Inlet functioning		X				
Culvert(s)/ditches		X				
Principle & Emergency Spillways						
Water Discharging (rate)			X			
Pond water level			X			Dry at time of inspection
Spillway is clear of debris			X			
Oil skimmer		X				
Emergency spillway			X			
Primary spillway		X				

Other Useful Information	Value	Comments/Remarks	Sediment Storage Capacity/ Elevation	Value	Comments/Remarks
Last cleaning date for basin	NA		100% sediment storage capacity (acre/ft)	NA	
Primary Spillway elevation (ft)	NA		60% sediment storage capacity (acre/ft)	NA	
Emergency Spillway elevation (ft)	NA		Current sediment Volume (est.)	18 %	
			Remaining storage capacity (est.)	84%	

Other Observations: No sign of recent discharge, dry winter conditions.

Pace Cyn.Sediment Basin	Date	Time	Inspector(s) Signature	Quarterly Inspection Form
	6/12/2012	845	VSM Vicky L Miller	

Site: 006 Permit # UT0025593	Action Required			Person Notified	Date Corrected	Comments/Remarks
	Yes/No	OK	N/A			
Stability of Pond						
Basin stability/weakness		X				
Erosion/Stability of banks		X				
Vegetation problem around basin	No					
Hazardous Condition						
Any visible contaminants	No					
Hazardous condition observed	No					
Inlet Conditions						
Inlet functioning		X				
Culvert(s)/ditches		X				
Principle & Emergency Spillways						
Water Discharging (rate)			X			
Pond water level			X			Dry at time of inspection
Spillway is clear of debris			X			
Oil skimmer		X				
Emergency spillway			X			
Primary spillway		X				

Other Useful Information	Value	Comments/Remarks	Sediment Storage Capacity/ Elevation	Value	Comments/Remarks
Last cleaning date for basin	NA		100% sediment storage capacity (acre/ft)	NA	
Primary Spillway elevation (ft)	NA		60% sediment storage capacity (acre/ft)	NA	
Emergency Spillway elevation (ft)	NA		Current sediment Volume (est.)	18 %	
			Remaining storage capacity (est.)	84%	

Other Observations: No sign of recent discharge, sediment basin dry at time of inspection.

Pace Cyn.Sediment Basin	Date	Time	Inspector(s) Signature	Quarterly Inspection Form
	8/8/2012	1245	VSM VS Miller	

Site: 006 Permit # UT0025593	Action Required			Person Notified	Date Corrected	Comments/Remarks
	Yes/No	OK	N/A			
Stability of Pond						
Basin stability/weakness		X				
Erosion/Stability of banks		X				
Vegetation problem around basin	No					
Hazardous Condition						
Any visible contaminants	No					
Hazardous condition observed	No					
Inlet Conditions						
Inlet functioning		X				
Culvert(s)/ditches		X				
Principle & Emergency Spillways						
Water Discharging (rate)			X			
Pond water level			X			Dry at time of inspection
Spillway is clear of debris			X			
Oil skimmer		X				
Emergency spillway			X			
Primary spillway		X				

Other Useful Information	Value	Comments/Remarks	Sediment Storage Capacity/ Elevation	Value	Comments/Remarks
Last cleaning date for basin	NA		100% sediment storage capacity (acre/ft)	NA	
Primary Spillway elevation (ft)	NA		60% sediment storage capacity (acre/ft)	NA	
Emergency Spillway elevation (ft)	NA		Current sediment Volume (est.)	18 %	
			Remaining storage capacity (est.)	84%	

Other Observations: No sign of recent discharge, sediment basin dry at time of inspection.

Pace Cyn.Sediment Basin	Date	Time	Inspector(s) Signature	Quarterly Inspection Form
	10/22/2012	1305	VSM Vicky L. Miller	

Site: 006 Permit # UT0025593	Action Required			Person Notified	Date Corrected	Comments/Remarks
	Yes/No	OK	N/A			
Stability of Pond						
Basin stability/weakness		X				
Erosion/Stability of banks		X				
Vegetation problem around basin	No					
Hazardous Condition						
Any visible contaminants	No					
Hazardous condition observed	No					
Inlet Conditions						
Inlet functioning		X				
Culvert(s)/ditches		X				
Principle & Emergency Spillways						
Water Discharging (rate)			X			
Pond water level			X			
Spillway is clear of debris			X			
Oil skimmer		X				
Emergency spillway			X			
Primary spillway		X				

Other Useful Information	Value	Comments/Remarks	Sediment Storage Capacity/ Elevation	Value	Comments/Remarks
Last cleaning date for basin	NA		100% sediment storage capacity (acre/ft)	NA	
Primary Spillway elevation (ft)	NA		60% sediment storage capacity (acre/ft)	NA	
Emergency Spillway elevation (ft)	NA		Current sediment Volume (est.)	18 %	
			Remaining storage capacity (est.)	84%	

Other Observations: No sign of recent discharge, sediment basin dry at time of inspection. Some vegetation growing in and around pond, no action required.

Leachfield Dugout	Date	Time	Inspector(s) Signature	Quarterly Inspection Form
	3/23/2012	1600	[illegible]	

Site:Leachfield	Action Required			Person Notified	Date Corrected	Comments/Remarks
Permit # NA	Yes/No	OK	N/A			
Field Conditions						
Erosion/Stability of field		X				
Vegetation problem (deep rooted species)		X				Rabbitbrush and Sagebrush growing
Hazardous Condition						
Any visible contaminants on surface	No					
Hazardous condition observed	No					
Inlet Conditions						
System functioning	Yes					Appears to be functioning as designed
Site ditches functioning	Yes					Signs of minor flow

Other Useful Information									

Other Observations: _____

Leachfield Dugout	Date	Time	Inspector(s) Signature	Quarterly Inspection Form
	6/21/2012	645	VSM	

Site:Leachfield	Action Required			Person Notified	Date Corrected	Comments/Remarks
Permit # NA	Yes/No	OK	N/A			
Field Conditions						
Erosion/Stability of field		X				
Vegetation problem (deep rooted species)		X				Rabbitbrush and Sagebrush growing
Hazardous Condition						
Any visible contaminants on surface	No					
Hazardous condition observed	No					
Inlet Conditions						
System functioning	Yes					Appears to be functioning as designed
Site ditches functioning	Yes					

Other Useful Information									

Other Observations: _____

Leachfield Dugout	Date	Time	Inspector(s) Signature	Quarterly Inspection Form
	7/17/2012	1655	VSM	

Site:Leachfield	Action Required			Person Notified	Date Corrected	Comments/Remarks
Permit # NA	Yes/No	OK	N/A			
Field Conditions						
Erosion/Stability of field		X				
Vegetation problem (deep rooted species)		X				Rabbitbrush and Sagebrush growing
Hazardous Condition						
Any visible contaminants on surface	No					
Hazardous condition observed	No					
Inlet Conditions						
System functioning	Yes					Appears to be functioning as designed
Site ditches functioning	Yes					

Other Useful Information									

Other Observations: _____

Leachfield Dugout	Date	Time	Inspector(s) Signature	Quarterly Inspection Form
	10/24/2012	1505	VSM Vicky A. Muller	

Site:Leachfield	Action Required			Person Notified	Date Corrected	Comments/Remarks
Permit # NA	Yes/No	OK	N/A			
Field Conditions						
Erosion/Stability of field		X				Grasses heavily grazed
Vegetation problem (deep rooted species)		X				Rabbitbrush and Sagebrush growing
						Removed some thistle rosettes
Hazardous Condition						
Any visible contaminants on surface	No					
Hazardous condition observed	No					
Inlet Conditions						
System functioning	Yes					Appears to be functioning as designed
Site ditches functioning	Yes					Did a small amount of shovel work on the berms

Other Useful Information									

Other Observations: _____

_____

_____

APPENDIX C

Other Information

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

CONTENTS

Waste Rock Sampling
Subsidence Map
Subsidence Report
Confidential - Raptor Report

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Soil Analysis Report

Canyon Fuel Company

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

Report ID: S1205128001

Project: Dugout Canyon Mine
Date Received: 5/8/2012

Date Reported: 5/25/2012
Work Order: S1205128

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	
S1205128-001	WR2012-01	7.5	24.8	1.92	15.4	7.1	11.3	14.5	1.46	3.38	0.94
S1205128-002	WR2012-02	7.8	27.0	1.61	16.4	6.2	7.46	13.1	1.16	2.95	0.92
S1205128-003	WR2012-03	7.5	26.9	1.65	16.2	7.4	8.98	11.4	1.34	3.52	1.10
S1205128-004	WR2012-04	7.5	27.4	2.31	21.2	6.8	12.8	20.5	1.56	4.24	1.04
S1205128-005	WR2012-05	8.1	25.5	0.90	14.5	6.1	3.59	5.29	0.77	2.11	1.00
S1205128-006	WR2012-06	8.0	26.8	1.11	15.1	5.7	4.32	6.70	0.89	2.92	1.25
S1205128-007	WR2012-07	7.9	27.7	1.33	15.1	7.6	5.37	8.96	1.15	3.07	1.15
S1205128-008	WR2012-08	7.6	26.0	5.23	16.6	4.6	27.5	58.8	2.38	14.6	2.22

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: S1205128001

Project: Dugout Canyon Mine
Date Received: 5/8/2012

Date Reported: 5/25/2012
Work Order: S1205128

Lab ID	Sample ID	Sand %	Silt %	Clay %	Texture	Boron ppm	Nitrate (as N) ppm	Phosphorus ppm	Selenium ppm	TKN %
S1205128-001	WR2012-01	70.0	18.0	12.0	Sandy Loam	0.62	1.2	4.35	0.05	0.18
S1205128-002	WR2012-02	67.0	24.0	9.0	Sandy Loam	0.63	0.8	4.03	0.05	0.19
S1205128-003	WR2012-03	69.0	22.0	9.0	Sandy Loam	0.57	1.1	4.98	0.02	0.18
S1205128-004	WR2012-04	70.0	22.0	8.0	Sandy Loam	0.51	1.1	4.35	0.07	0.18
S1205128-005	WR2012-05	68.0	22.0	10.0	Sandy Loam	0.72	<0.1	4.42	<0.02	0.18
S1205128-006	WR2012-06	72.0	20.0	8.0	Sandy Loam	0.67	<0.1	4.32	<0.02	0.18
S1205128-007	WR2012-07	68.0	23.0	9.0	Sandy Loam	0.72	0.5	4.51	0.03	0.19
S1205128-008	WR2012-08	73.0	23.0	4.0	Sandy Loam	0.43	3.9	4.49	0.24	0.17

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: S1205128001

Project: Dugout Canyon Mine
Date Received: 5/8/2012

Date Reported: 5/25/2012
Work Order: S1205128

Lab ID	Sample ID	Available Sodium meq/100g	Exchangeable Sodium meq/100g	Total Carbon %	TOC %
S1205128-001	WR2012-01	0.21	0.13	7.0	5.5
S1205128-002	WR2012-02	0.20	0.12	6.3	4.5
S1205128-003	WR2012-03	0.24	0.15	7.6	6.1
S1205128-004	WR2012-04	0.25	0.13	7.9	6.0
S1205128-005	WR2012-05	0.19	0.13	5.2	3.2
S1205128-006	WR2012-06	0.23	0.15	5.5	4.1
S1205128-007	WR2012-07	0.21	0.13	5.4	3.8
S1205128-008	WR2012-08	0.57	0.19	3.9	1.9

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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Report ID: S1205128001

Project: Dugout Canyon Mine
Date Received: 5/8/2012

Date Reported: 5/25/2012
Work Order: S1205128

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
S1205128-001	WR2012-01	3.24	101	124	22.7	0.10	2.81	0.34	87.7	36.3
S1205128-002	WR2012-02	1.91	59.6	153	92.9	0.02	1.71	0.19	53.3	99.3
S1205128-003	WR2012-03	2.33	72.8	124	51.2	0.39	1.63	0.32	50.9	73.2
S1205128-004	WR2012-04	2.25	70.4	158	87.9	0.17	1.79	0.29	56.1	102
S1205128-005	WR2012-05	2.38	74.5	163	88.9	0.11	1.97	0.30	61.6	102
S1205128-006	WR2012-06	2.77	86.6	116	29.7	0.17	2.22	0.38	69.3	46.9
S1205128-007	WR2012-07	2.48	77.4	130	53.1	0.70	1.43	0.35	44.8	85.7
S1205128-008	WR2012-08	0.85	26.5	159	133	0.01	0.70	0.13	21.9	137

These results apply only to the samples tested.

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Karen Secor, Soil Lab Supervisor

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Your Environmental Monitoring Partner

Soil Analysis Report

Canyon Fuel Company

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

Report ID: S1208298001

Project: Dugout Canyon Mine
Date Received: 8/15/2012

Date Reported: 11/6/2012
Work Order: S1208298

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	
S1208298-001	WR 2012-09	7.9	25.7	1.66	18.3	6.4	7.68	11.6	1.02	4.94	1.59
S1208298-002	WR 2012-10	7.7	26.5	1.30	17.0	7.8	6.04	8.92	1.14	2.23	0.81
S1208298-003	WR 2012-11	8.0	27.1	1.48	17.2	5.7	6.26	9.29	0.93	4.19	1.50
S1208298-004	WR 2012-12	8.0	24.4	2.09	16.8	8.0	11.9	16.2	1.41	4.94	1.32
S1208298-005	WR 2012-13	7.7	25.7	1.73	16.8	7.8	9.12	15.5	1.45	2.27	0.65
S1208298-006	WR 2012-14	7.5	23.4	1.77	16.9	7.3	9.23	14.4	1.38	3.07	0.89
S1208298-007	WR 2012-15	7.6	25.8	1.72	16.6	7.3	9.30	15.6	1.29	2.63	0.75

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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Wellington, UT 84542

Report ID: S1208298001

Project: Dugout Canyon Mine
Date Received: 8/15/2012

Date Reported: 11/6/2012
Work Order: S1208298

Lab ID	Sample ID	Sand %	Silt %	Clay %	Texture	Boron ppm	Nitrate (as N) ppm	Phosphorus ppm	Selenium ppm	TKN %
S1208298-001	WR 2012-09	72.0	20.0	8.0	Sandy Loam	0.48	0.3	3.3	0.06	0.19
S1208298-002	WR 2012-10	70.0	19.0	11.0	Sandy Loam	0.36	0.2	3.6	0.03	0.15
S1208298-003	WR 2012-11	74.0	17.0	9.0	Sandy Loam	0.44	0.2	3.6	0.05	0.13
S1208298-004	WR 2012-12	68.0	20.0	12.0	Sandy Loam	0.65	0.3	3.7	0.03	0.11
S1208298-005	WR 2012-13	70.0	19.0	11.0	Sandy Loam	0.41	0.2	4.4	0.04	0.12
S1208298-006	WR 2012-14	70.0	19.0	11.0	Sandy Loam	0.50	0.2	3.8	0.05	0.14
S1208298-007	WR 2012-15	68.0	22.0	10.0	Sandy Loam	0.58	0.3	3.7	0.06	0.14

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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P.O. Box 1029
Wellington, UT 84542

Report ID: S1208298001

Project: Dugout Canyon Mine
Date Received: 8/15/2012

Date Reported: 11/6/2012
Work Order: S1208298

Lab ID	Sample ID	Available Sodium meq/100g	Exchangeable Sodium meq/100g	Total Carbon %	TOC %
S1208298-001	WR 2012-09	0.26	0.14	10.7	8.9
S1208298-002	WR 2012-10	0.17	0.11	7.9	5.6
S1208298-003	WR 2012-11	0.29	0.18	6.6	4.6
S1208298-004	WR 2012-12	0.31	0.19	7.2	5.3
S1208298-005	WR 2012-13	0.15	0.10	5.9	3.6
S1208298-006	WR 2012-14	0.19	0.12	7.6	5.4
S1208298-007	WR 2012-15	0.17	0.10	6.8	4.2

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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Report ID: S1208298001

Project: Dugout Canyon Mine
Date Received: 8/15/2012

Date Reported: 11/6/2012
Work Order: S1208298

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
S1208298-001	WR 2012-09	0.83	26.0	152	126	0.05	0.65	0.13	20.3	131
S1208298-002	WR 2012-10	1.40	43.7	192	148	0.44	0.81	0.15	25.3	167
S1208298-003	WR 2012-11	1.30	40.7	169	128	0.31	0.83	0.16	25.9	143
S1208298-004	WR 2012-12	1.80	56.2	162	106	0.06	1.53	0.21	47.8	114
S1208298-005	WR 2012-13	2.37	74.1	197	123	0.24	1.95	0.18	60.9	136
S1208298-006	WR 2012-14	1.41	44.2	180	136	0.19	1.06	0.16	33.1	147
S1208298-007	WR 2012-15	1.38	43.2	222	178	0.42	0.82	0.14	25.6	196

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: S1210039001

Project: Dugout Canyon Mine
Date Received: 9/28/2012

Date Reported: 12/3/2012
Work Order: S1210039

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	
S1210039-001	WR 2012-16	7.6	24.8	2.34	14.8	7.6	8.70	10.1	1.40	10.3	3.36
S1210039-002	WR 2012-17	7.9	26.5	2.36	14.5	6.9	6.70	8.99	1.25	5.71	2.04
S1210039-003	WR 2012-18	8.2	26.9	1.76	16.2	7.8	4.76	4.62	0.89	10.1	4.65

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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Report ID: S1210039001

Project: Dugout Canyon Mine
Date Received: 9/28/2012

Date Reported: 12/3/2012
Work Order: S1210039

Lab ID	Sample ID	Sand %	Silt %	Clay %	Texture	Boron ppm	Nitrate (as N) ppm	Phosphorus ppm	Selenium ppm	TKN %
S1210039-001	WR 2012-16	69.0	19.0	12.0	Sandy Loam	1.6 t	0.5	1.8	0.03	0.11
S1210039-002	WR 2012-17	65.0	23.0	12.0	Sandy Loam	0.78	0.3	1.8	<0.02	0.07
S1210039-003	WR 2012-18	67.0	21.0	12.0	Sandy Loam	1.13	0.4	t.5	0.03	0.07

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: S1210039001

Project: Dugout Canyon Mine

Date Received: 9/28/2012

Date Reported: 12/3/2012

Work Order: S1210039

Lab ID	Sample ID	Available Sodium meq/100g	Exchangeable Sodium meq/100g	Total Carbon %	TOC %
S1210039-001	WR 2012-16	0.80	0.54	8.9	7.8
S1210039-002	WR 2012-17	0.34	0.18	5.3	3.9
S1210039-003	WR 2012-18	0.79	0.52	11.1	10.3

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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Wellington, UT 84542

Report ID: S1210039001

Project: Dugout Canyon Mine
Date Received: 9/28/2012

Date Reported: 12/3/2012
Work Order: S1210039

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
S1210039-001	WR 2012-16	2.04	63.6	89.5	25.9	0.07	1.74	0.23	54.4	35.1
S1210039-002	WR 2012-17	1.62	50.5	120	69.9	0.08	1.28	0.26	40.0	80.4
S1210039-003	WR 2012-18	0.69	21.5	68.9	47.4	0.45	0.07	0.17	2.19	66.7

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

DUGOUT CANYON MINE - Visual Checks for Subsidence - 2012

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 16 and 23
May 11 and 31
June 12 and 21
July 6 and 19
August 8 and 21
September 7 and 19
October 1 and 22
November 8 and 26
No surface irregularities or surface cracks were observed.

Water Monitoring was Performed in the Pace Canyon Area

April 23
June 9, 12, 14
July 6, 17, 19 – 21, 26 - 27
October 1 – 4, and 22
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 November 2012. Additional soil was added by shovel into the subsidence cracks previously repaired during the reclamation of the G-7 pad in 2009. One additional crack was located during the inspection, however it was not a new crack, just one that had not been located before.

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

February 17, 2012

Mr. Gil L. Conover
P.O. Box 83
Ferron, Utah 84523

Re: Dugout Canyon Mine Activities on Conover Family Trust Lands in 2012

Dear Mr. Conover:

In accordance with the **Surface Use Agreement** between **Canyon Fuels Company, L.L.C.** (CFC) and the **Conover Family Trust** of April 15, 2007, the Dugout Canyon Mine (Dugout) is providing notification of activities that may be conducted on Conover Family Trust Lands during 2012.

Dugout plans to use portions of the road that traverses the Conover lands in Section 21, T13S, R 13E to access an existing reclaimed methane drainage well site. In addition, water monitoring will be done on Conover lands at various surface water and spring locations. If you have any questions about our activities or plans, please contact me at 435-636-2869.

Sincerely,

Vicky L Miller

cc: Mike Lincoln
David Spillman
Wendell Koontz

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

February 17, 2012

Milton and Ardith Thayn Trust
Attn: David Thayn
7730 East Highway 6
Price, Utah 84501

Re: Dugout Canyon Mine Activities on Thayn Trust Lands in 2012

Dear Mr. Thayn:

In accordance with the **Surface Use Agreement** between **Canyon Fuels Company, L.L.C.** (CFC) and the **Milton and Ardith Thayn Trust** (Thayn Trust) of November 1999 and as later amended, the Dugout Canyon Mine (Dugout) plans to conduct permitting activities, compliance monitoring, access road maintenance, degas well abandonment activity, drill site reclamation, and other coal mining related activities on the Thayn Trust Lands during 2012.

Lease Modifications:
During 2012, a Federal Lease will be modified which includes approximately twenty acres of lands belonging to the Thayn Trust.

Methane Drainage Wells, Exploration Drilling and Access Routes:
Dugout has no plans to drill methane drainage wells, exploration holes or construct access routes in 2012 upon lands of the Thayn Trust.

Methane Drainage Wells – Abandonment and Reclamation:
In 2011, reclamation activities began on the G-18 and G-31 methane drainage well pads and on a portion of the AMV road connecting the two pads, this project will be completed in 2012. Various other reclamation activities are under consideration for completion in 2012.

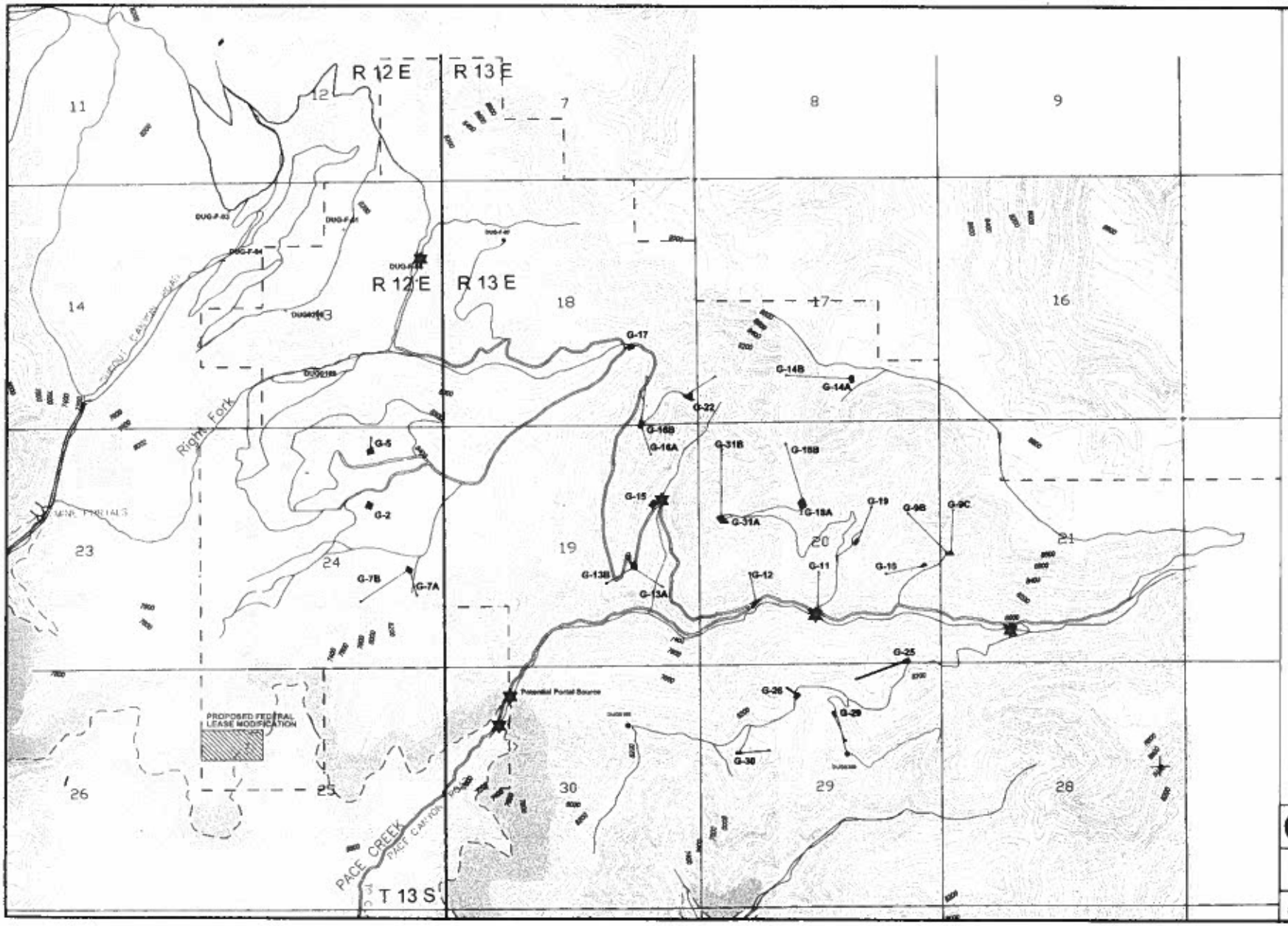
Noxious Weed Control:
Noxious weed control measures will continue in 2012.

If you have any questions about our activities or plans, please contact me at 435-636-2869.

Sincerely,

Vicky A Miller

cc: Mike Lincoln
David Spillman
Wendell Koontz



LEGEND

- Thayn Trust Boundary
- Mine Permit Boundary
- Lease Modification
- Existing Road - No Upgrade
- Road to be Improved
- Road to be Constructed
- Gilson Seam Outcrop
- Gilson Seam Burn Zone
- Methane Drainage Wells - Direction of Hole
- Existing Methane Drainage Well
- Water Source Locations

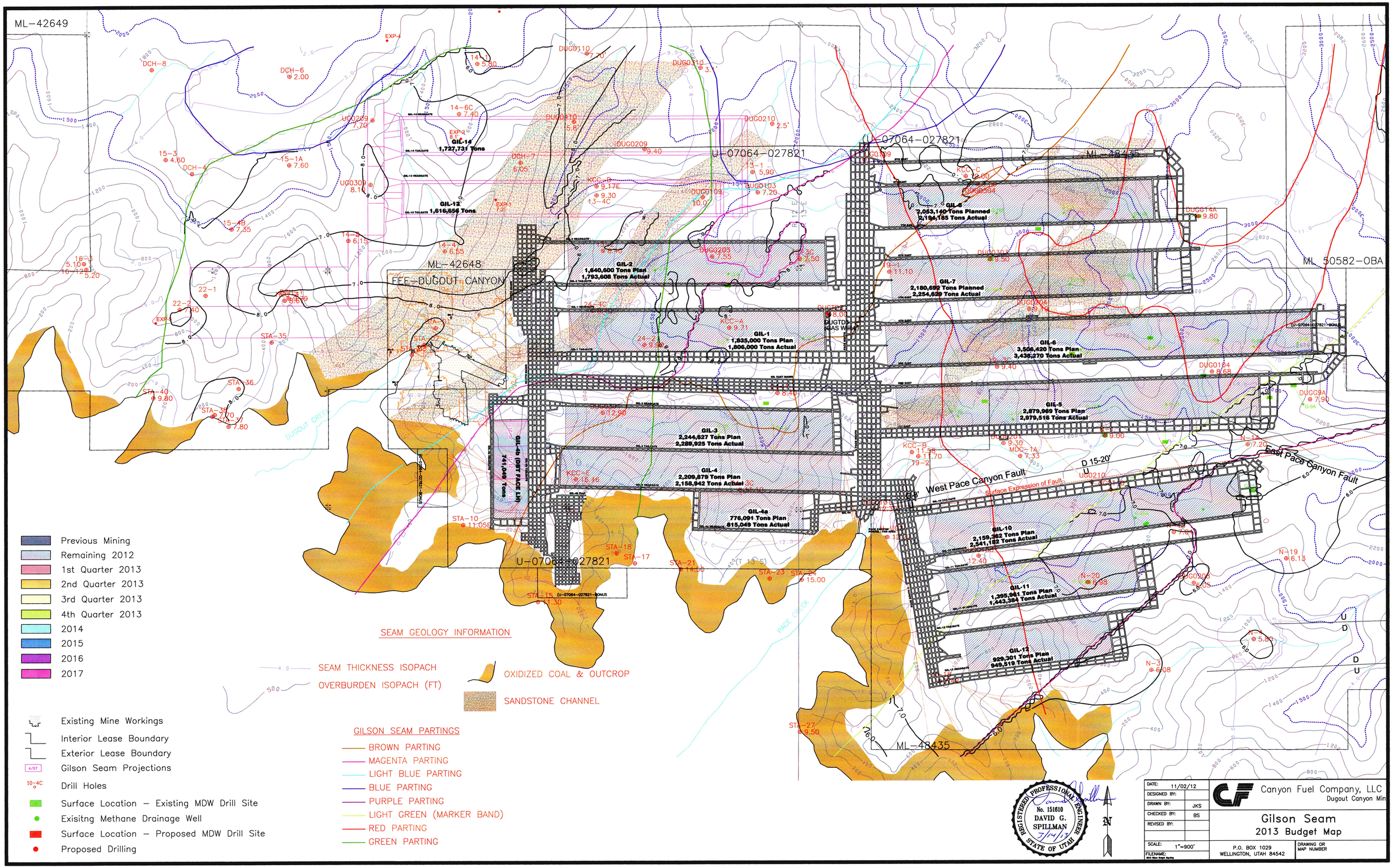
Scale: 1" = 2000'

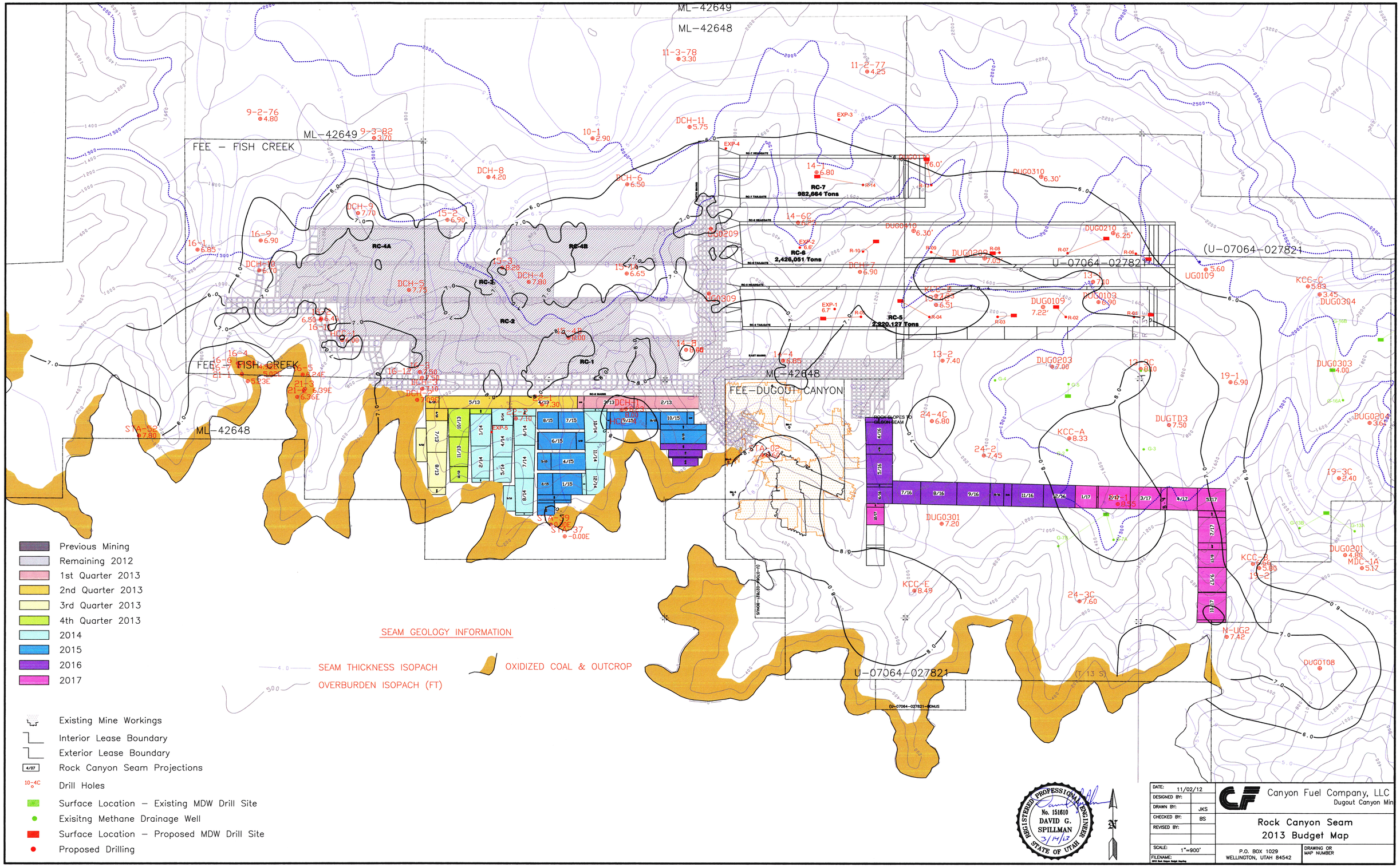
Canyon Fuel Co., LLC.
Dugout Canyon Mine

Thayn Trust Lands Activities In 2012

P.O. BOX 1020
HELLDORADO, UTAH 84540

Date: February 23, 2010


ML-42649
ML-42648
FEE-DUGOUT CANYON
U-07064-027821
ML-48435
ML-50582-OBA
GIL-14
1,727,731 Tons
GIL-12
1,616,656 Tons
GIL-2
1,640,600 Tons Plan
1,793,608 Tons Actual
GIL-1
1,835,000 Tons Plan
1,806,000 Tons Actual
GIL-3
2,244,627 Tons Plan
2,288,925 Tons Actual
GIL-4
2,209,879 Tons Plan
2,158,942 Tons Actual
GIL-4a
776,091 Tons Plan
815,049 Tons Actual
GIL-4b (DST FACE LH)
741,046 Tons
GIL-5
2,879,969 Tons Plan
2,979,516 Tons Actual
GIL-6
3,506,420 Tons Plan
3,436,270 Tons Actual
GIL-7
2,180,692 Tons Planned
2,254,620 Tons Actual
GIL-8
2,053,140 Tons Planned
2,194,185 Tons Actual
GIL-10
2,159,362 Tons Plan
2,541,182 Tons Actual
GIL-11
1,395,961 Tons Plan
1,443,384 Tons Actual
GIL-12
929,301 Tons Plan
949,519 Tons Actual
West Pace Canyon Fault
Surface Expression of Fault
East Pace Canyon Fault
D 15-20'
DUGOUT CREEK
PACE CREEK
Previous Mining
Remaining 2012
1st Quarter 2013
2nd Quarter 2013
3rd Quarter 2013
4th Quarter 2013
2014
2015
2016
2017
Existing Mine Workings
Interior Lease Boundary
Exterior Lease Boundary
Gilson Seam Projections
Drill Holes
Surface Location – Existing MDW Drill Site
Exisitng Methane Drainage Well
Surface Location – Proposed MDW Drill Site
Proposed Drilling
SEAM GEOLOGY INFORMATION
SEAM THICKNESS ISOPACH
OVERBURDEN ISOPACH (FT)
OXIDIZED COAL & OUTCROP
SANDSTONE CHANNEL
GILSON SEAM PARTINGS
BROWN PARTING
MAGENTA PARTING
LIGHT BLUE PARTING
BLUE PARTING
PURPLE PARTING
LIGHT GREEN (MARKER BAND)
RED PARTING
GREEN PARTING
REGISTERED PROFESSIONAL ENGINEER
No. 151610
DAVID G. SPILLMAN
3/14/13
STATE OF UTAH
N
DATE: 11/02/12
DESIGNED BY:
DRAWN BY: JKS
CHECKED BY: BS
REVISED BY:
SCALE: 1"=900'
FILENAME:
Canyon Fuel Company, LLC
Dugout Canyon Min
Gilson Seam
2013 Budget Map
P.O. BOX 1029
WELLINGTON, UTAH 84542
DRAWING OR MAP NUMBER


ML-42649
ML-42648
FEE - FISH CREEK
FEE-DUGOUT CANYON
U-07064-027821
(U-07064-027821)
RC-1
RC-2
RC-3
RC-4A
RC-4B
RC-5
2,220,127 Tons
RC-6
2,426,051 Tons
RC-7
982,664 Tons
Previous Mining
Remaining 2012
1st Quarter 2013
2nd Quarter 2013
3rd Quarter 2013
4th Quarter 2013
2014
2015
2016
2017
SEAM GEOLOGY INFORMATION
SEAM THICKNESS ISOPACH
OVERBURDEN ISOPACH (FT)
OXIDIZED COAL & OUTCROP
Existing Mine Workings
Interior Lease Boundary
Exterior Lease Boundary
Rock Canyon Seam Projections
Drill Holes
Surface Location - Existing MDW Drill Site
Exisitng Methane Drainage Well
Surface Location - Proposed MDW Drill Site
Proposed Drilling
REGISTERED PROFESSIONAL ENGINEER
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Dugout Canyon Min
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2013 Budget Map
P.O. BOX 1029
WELLINGTON, UTAH 84542
DRAWING OR MAP NUMBER

Station	Original Elev.	01 Elev.	02 Elev.	03 Elev.	04 Elev.	05 Elev.	06 Elev.	07 Elev.	2008 Elevation	2009 Elevation	2010 Elevation	2011 Elevation	2012 Elevation	Overall Subsidence
RC 1-1	8284.64	8284.64	8284.23	8284.12	8283.95	8284.21	8284.12	Monitoring Complete						-0.52
Francis	8544.89	8544.89	8544.89	8543.27	8543.23	8543.23	Monitoring Complete							-1.66
RC 2-1	8389.38	8389.38	8387.05	8385.88	8386.62	8386.53	8386.55	Monitoring Complete						-2.83
RC-3A	7984.44		7984.44	7984.24	7981.52	7981.52	7981.51	Monitoring Complete						-2.93
RC-3B	8421.35		8421.35	8421.25	8421.26	8421.26	Monitoring Complete							-0.09
RC-4A	7952.68		7952.68	7952.62	7950.77	7950.77	7950.62	Monitoring Complete						-2.06
RC-4B	8470.92		8470.92	8470.82	8470.63	8470.63	Monitoring Complete							-0.29
GIL 1	8246.75			8246.75	8246.66	8246.33	8246.33	8,246.40	8,246.43	Monitoring Complete				-0.32
GIL 2	8232.40				8232.40	8231.12	8231.08	8,231.19	8,231.23	Monitoring Complete				-1.17
GIL 3	8452.99				8452.99	8451.84	8448.95	8,449.00	8,448.97	Monitoring Complete				-4.02
GIL 4	8230.50				8230.50	8230.38	8225.99	8,225.01	8,225.00	Monitoring Complete				-5.50
GIL 4A	8041.61					8041.61	8038.82	8,038.87	8,038.85	Monitoring Complete				-2.76
GIL 5	7760.51						7760.51	7759.87	7759.87	Monitoring Complete				-0.64
GIL 6	7527.96							7527.96	7527.94	7527.14	7527.10	7527.13	Monitoring Complete	-0.83
GIL 7	8031.93								8031.93	8031.10	8031.03	8030.90	Monitoring Complete	-1.03
GIL 8	8240.53								8240.53	8240.53	8240.02	8240.16	Monitoring Complete	-0.37
GIL 10	8117.09									8117.09	8117.06	8117.03	Monitoring Complete	-0.06
GIL 11	8304.63										8304.63	8303.70	8303.02	-1.61
GIL 11B	8251.09										8251.09	8250.70	8248.83	-2.26
GIL 12	8143.52										8143.52	8142.94	8142.58	-0.94
GIL 4B	8162.67											8162.67	8162.53	-0.14
RC-5	8096.52											8096.52		0.00

Note: Coordinates and elevations provided by:

Ware Surveying, L.L.C.
1344 North 1000 West
Price, UT 84501

Field work was completed September 14, 2012.

REGISTERED PROFESSIONAL ENGINEER
No. 151610
DAVID G. SPILLMAN
2/25/13
STATE OF UTAH

SUBSIDENCE REPORT 2012

Canyon Fuel Company, LLC.
Dugout Mine

P.O. BOX 1029 WELLINGTON, UTAH 84542 435-637-6360	Date: October. 10, 2012	Checked By: D.G.S.	REVISION:
CAD File: subsidence report 2012-rcp.dwg	Scale: 1" = 1000'	Drawn By: S.T.V.	