COPY

2009 ANNUAL REPORT

HORSE CANYON MINE
C007/0013

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APR 29 2010
DIV. OF OIL, GAS & MINING

This Annual Report shows information the Division has for your mine. Please review the information to see if it is current. If the information needs to be updated please do so in this document. At the end of each section the operator is asked to verify if the information is correct. Please answer these questions and make all comments on this document. Submit the completed document and any additional information identified in the 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	UTAHAMERICAN ENERGY, INC.
Mine Name	Horse Canyon Mine
Operator Name (If other then permittee)	
Permit Expiration Date	May 6, 2011
Permit Number	C/007/0013
Authorized Representative Title	R. Jay Marshall
Phone Number	(435) 888-4007
Fax Number	(435) 888-4002
E-mail Address	jmarshall@coalsource.com
Mailing Address	UtahAmerican Energy, Inc. P.O. Box 910 East Carbon, Utah 84520-0910
Designated Representative	R. Jay Marshall
Resident Agent	R. Jay Marshall
Resident Agent Mailing Address	UtahAmerican Energy, Inc. P.O. Box 910 East Carbon, Utah 84520-0910
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)	42-00100	Horse Canyon	None
	42-02241	Lila Canyon	None
MSHA Impoundment(s)	1211-UT-09-02241-01	Lila Canyon	None
NPDES/UPDES Permit(s)	UTG040024		April 30, 2013
PSD Permit(s) (Air)	DAQE-702-99		None

Other

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	☐		
Impoundments	X		☐		Annual Inspections Appendix "A"
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. Lila Canyon Mine Site Topsoil Salvage Monitoring
Objective. Monitor and maintain records of materials removed and placement of materials in the topsoil storage pile.
Frequency. During construction a qualified soil scientist will oversee the soil salvage and construction of topsoil storage sites and maintain records of materials removed.
Status. Work was contracted in Phases. As-built volumes expected upon completion of each phase of work.
Reports. Update MRP with volumes and as-built map showing location of topsoil salvage and condition of topsoil storage pile.
Citation. MRP Section 232.500 and Section 231.100 and 232.100

Operator: Has this commitment been acted on this year?

Yes X No ☐ Not required this year. ☐ If yes, comment;
Operator Comments:
Topsoil Movement and Construction Record found in Appendix "B"

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

Title. Lila Canyon Mine Monitoring Location and Protection of Designated Subsoil for Use Cover.
Objective. Monitor placement of suitable subsoil material for use in final reclamation. Note whether subsoil is protected by asphalt, concrete or gravel over an impervious membrane.
Frequency. During construction of Lila Canyon facilities.
Status. During construction of the Lila Canyon Mine.
Reports. Update MRP with as built map showing the location of subsoil with suitable reclamation characteristics for use as cover during reclamation.
Citation. MRP Section 232.500, Section 241, Section 242.100.

Operator: Has this commitment been acted on this year?

Yes X No ☐ Not required this year. X If yes, comment;
Operator Comments:
Soil report found in Appendix "B"

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

Title. Lila Canyon Mine Replacement of Cryptogams on Topsoil Pile.
Objective. Salvaged cryptogams will be added to the wood fiber mulch and hydrosprayed on the surface of the gouged topsoil pile.
Frequency. Immediately after seeding of the topsoil pile.
Status. During construction of the Lila Canyon Mine.
Reports. Confirm cryptogamic replacement.
Citation. MRP Section 232.100 and Section 234.230.

Operator: Has this commitment been acted on this year?

Yes X No ☐ Not required this year. ☐ If yes, comment;
Operator Comments:
Cryptogams were added to the hydro seeder during the interm

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

Title. Lila Canyon Mine Salvage of Cryptogams on Topsoil Pile Prior to Reclamation.
Objective. Salvaged cryptogams will be added to the wood fiber mulch and hydro sprayed on the surface of the reclaimed site.
Frequency. Immediately after seeding of the reclaimed site
Status. During reclamation of the Lila Canyon Mine.
Reports. Success of cryptogamic establishment will be evaluated (by Division and Permittee) prior to collection from topsoil stockpile.
Citation. MRP Section 232.100 and Section 234.230.

Operator: Has this commitment been acted on this year?

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

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

Biology R645-301-300
Title: Habitat enhancement/mitigation.
Objective: Install 2 guzzlers as part of the BLM enhancement/mitigation plan to offset expected impacts to bighorn sheep as well as mule deer, elk, raptors, and chukars from the initial construction of the main facilities site.
Frequency: NA.
Status: Implement within one year following mine plan approval.
Reports: Provide location of guzzlers as an appendix to the MRP-Part B.
Citation: MRP-Part B, Sec. 333, p. 18; EA UT-070-99-22 July 2000.

Operator: Has this commitment been acted on this year?

Yes ☐ No ☐ Not required this year. X If yes, comment;
Operator Comments:
BLM plan complete and attached in Appendix "E"

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

Title: Habitat enhancement/mitigation.
Objective: Implement the BLM 70+-acre wildlife enhancement/mitigation plan to offset expected impacts to bighorn sheep as well as mule deer, elk, raptors, and chukars from the initial construction of the main facilities site.
Frequency: NA.
Status: Implement the BLM's plan within one year following mine plan approval.
Reports: Provide the BLM's detailed plan and a follow-up report as an appendix to the MRP-Part B.
Citation: MRP-Part B, Sec. 322.220, p. 10, 11; Sec. 333, p. 17, 18; EA UT-070-99-22 July 2000.

Operator: Has this commitment been acted on this year?

Yes X No ☐ Not required this year. ☐ If yes, comment;
Operator Comments:
BLM plan complete and attached in Appendix "E"

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

Title: Raptor and nest protection.
Objective: For possible subsidence impacts to raptor nests, , the Permittee will develop a mitigation plan that must be submitted and approved within 6 months after issuance of permit and apply for 'take permit' through USFWS 2 years prior to subsidence of the nests.
Frequency: NA.
Status: On going starting in 2007.
Reports: Dependent on the requirements of the mitigation plan.
Citation: MRP-Part B - Narrative showing this commitment must be added to the MRP Sec. 333.300 within 30 days after issuance of the permit.

Operator: Has this commitment been acted on this year?

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

Inspector:

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

Title: Sensitive plant.
Objective: Implement a protection program for known populations of canyon sweetvetch during construction of the main facilities site.
Frequency: NA.
Status: NA.
Reports: None.
Citation: MRP-Part B, App. 7-3.

Operator: Has this commitment been acted on this year?

Yes ☐ No ☐ Not required this year. X If yes, comment;
Operator Comments:
Sweetvetch not found on the permit area.

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

Title: Seed mix tags.
Objective: Provide the Division biologist with seed mix tags prior to or during interim, contemporaneous, and final reclamation projects.
Frequency: NA.
Status: On going.
Reports: NA.
Citation: NA.

Operator: Has this commitment been acted on this year?

Yes X No ☐ Not required this year. ☐ If yes, comment;
Operator Comments:
Seed mix tags given to Priscilla on the day of the interim seeding of the topsoil pile.

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

Title: Vegetation test plot.
Objective: To test whether summer seeding will increase establishment of the warm season species.
Frequency: NA.
Status: Implement immediately following construction of sediment pond.
Reports: Provide three years of monitoring results in Annual Reports.

Citation: MRP-Part B, Sec. 341.300 p. 26; Sec. 354, p. 28.

Operator: Has this commitment been acted on this year?

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

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. Lila Canyon Mine Rock Tunnel Waste Rock Operational Sampling
Objective. Monitor chemical quality of rock brought to surface from tunnels
Frequency. Five grab samples taken as follows: during the initial start up, at the 1/4 mark, and the 3/4 mark and near completion of the rock sope tunnels. Parameters to be monitored are found in Table 1.
Status. During tunnel construction.
Reports. Annual Report
Citation. MRP App. 5-7 Table 1

Operator: Has this commitment been acted on this year?

Yes X No ☐ Not required this year. ☐ If yes, comment;
Operator Comments:
Submitted with submissions 9-003, 10-004.

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

Geology R645-301-600

Hydrology R645-301-700

Title: SUBMIT WATER MONITORING DATA IN AN ELECTRONIC FORMAT
Objective: Put water data in DOGM water quality database.
Frequency: Submit quarterly.
Status: Submit quarterly monitoring data during operational and reclamation phases of mining.
Reports: Submit field data, laboratory analyses and UPDES data to electronic database.
Citation: Special Conditions December 21, 2007.

Operator: Has this commitment been acted on this year?

Yes X No ☐ Not required this year. ☐ If yes, comment;
Operator Comments:
Ongoing: submitted electronically on a quarterly basis

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

Title: RAIN GAUGES
Objective: Establish on-site climatological database.
Frequency: No less than monthly from May 1 through October 30, monthly when feasible during the remaining months.
Status: To be implemented within 30 days of Board's approval of the Stipulation for Dismissal.
Reports: Data will be downloaded quarterly and included in the Annual Report
Citation: Conditions to the Permit, Attachment A, Special Conditions (December 21, 2007.

Operator: Has this commitment been acted on this year?

Yes X No ☐ Not required this year. ☐ If yes, comment;
Operator Comments:
Attached in Appendix "B" of this annual report.

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

Title: CREST STAGE GAUGES AND SIPHON SAMPLERS
Objective: additional water-quality and -quantity data.
Frequency: Quarterly monitoring for 2 years; Installation, maintenance, and inspection to follow USGS protocols and on a frequency established by the Division.
Status: Devices to be installed by March 31, 2008. At the end of the first year, the data will be analyzed and additional monitoring locations may be required.
Reports: Included in regular quarterly monitoring reports. The MRP (and CHIA) to be updated as needed.
Citation: Conditions to the Permit, Attachment A, Special Conditions (December 21, 2007).

Operator: Has this commitment been acted on this year?

Yes X No ☐ Not required this year. ☐ If yes, comment;
Operator Comments:
Attached in Appendix "B" of this annual report.

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

Title: USE GPS TO SURVEY LOCATIONS OF ALL KNOWN AND NEWLY IDENTIFIED SEEPS AND SPRINGS
Objective: More precise identification and location of seeps and springs
Frequency: Annual.
Status: Survey to be commenced by March 31, 2008.
Reports: The MRP (and CHIA) to be updated.
Citation: Conditions to the Permit, Attachment A, Special Conditions (December 21, 2007).

Operator: Has this commitment been acted on this year?

Yes ☐ No ☐ Not required this year. X If yes, comment;
Operator Comments:
Was satisfied with submittal 08-009 submitted 8/29/2008 to DOGM.

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

Title: TWO MONITORING WELLS TO BE ESTABLISHED IN FUTURE BOREHOLES.
Objective: Monitor water levels and water quality within the permit and adjacent areas.
Frequency: If wells are established.
Status: To be done when and if additional holes are bored from the surface to the coal seam.
Reports: Water-quality and -quantity data will be included in the quarterly hydrolgy reports. The MRP (and CHIA) to be updated as needed.
Citation: Conditions to the Permit, Attachment A, Special Conditions (December 21, 2007)

Operator: Has this commitment been acted on this year?

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

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

Bonding & Insurance R645-301-800

Other Commitments

*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 OTHER TECHNICAL DATA

List other technical data and information as required under the approved plan, which must be periodically submitted to the Division. Specify whether the information is included as Appendix B to this report or currently on file with the Division.

Operator Comments:

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

LEGAL, FINANCIAL, COMPLIANCE AND RELATED INFORMATION

Change in administration or corporate structure can often bring about necessary changes to information found in the mining and reclamation plan. The Division is Requesting that each permittee review and update the legal, financial, compliance and related information in the plan as part of the annual report. Please provide the Department of Commerce, Annual Report of Officers, or other equivalent information as necessary to ensure that the information provided in the plan is current. Provide any other change as necessary regarding land ownership, lease acquisitions, legal results from appeals of violations, or other changes as necessary to update information required in the mining and reclamation plan. Include certified financial statements, audits or worksheets, which may be required to meet bonding requirements. Specify whether the information is currently on file with the Division or included as Appendix C to the report.

Legal / Financial Update	**Required** Yes	No	**Included or DOGM File location** Included	Vol, Chapter, Page	**Comments**
Department of Commerce, Annual Report Officers	☐	X	☐		
Other					
	☐	☐	☐		
	☐	☐	☐		
	☐	☐	☐		

Operator Comments:

Inspector:
Has the operator complied fully 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			
Mine map	Found in Appendix "D"		
Other map		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** X **No** X

Raptor surveys
Public Notice of Proposed Mining

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

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of

Permit Number	ACT/007/013	Report Date	April 15, 2009
Mine Name	Lila Canyon		
Company Name	UtahAmerican Energy, Inc.		
Impoundment Identification	Impoundment Name	Sediment Pond #2 Small	
	Impoundment Number	Pond #2	
	UPDES Permit Number	NA	
	MSHA ID Number	NA	

IMPOUNDMENT INSPECTION

Inspection Date	Ongoing
Inspected By	R. Jay Marshall
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Periodic

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

No appearance of instability, structural weakness, or any other hazardous condition was observed at the time of inspection. Pond is still under construction. Pond is being constructed according to accepted engineering practices and approved design.

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 Elevations:

60%	5842.1'
100%	5844.0'
Existing	Under Construction

3. **Principle and emergency spillway elevations.**

Principle

Emergency

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.

Pond is still under construction

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?	XXXXX	

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 3 of
2. Is impoundment free of instability, structural weakness, or any other hazardous condition?	XXXXX	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	XXXXX	

COMMENTS AND OTHER INFORMATION

NONE

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.

REGISTERED PROFESSIONAL ENGINEER # 152606 R. JAY MARSHALL STATE OF UTAH

[Certr. Stamp]

By: R. Jay Marshall
(Full Name and Title)

Signature: _____ Date: 4/15/09

P.E. Number & State: 152606 Utah

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			Page 1 of
Permit Number	ACT/007/013	Report Date	April 15, 2009
Mine Name	Lila Canyon		
Company Name	UtahAmerican Energy, Inc.		
Impoundment Identification	Impoundment Name	Sediment Pond #1 Large	
	Impoundment Number	Pond #1	
	UPDES Permit Number	UTG 040024	
	MSHA ID Number	NA	

IMPOUNDMENT INSPECTION

Inspection Date	Ongoing
Inspected By	R. Jay Marshall
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Periodic

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

No appearance of instability, structural weakness, or any other hazardous condition was observed at the time of inspection. Pond is still under construction. Pond is being constructed according to accepted engineering practices and approved design.

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 Elevations:

60%	5838.9'
100%	5843.0'
Existing	Under Construction

3. **Principle and emergency spillway elevations.**

Principle	5841'
Emergency	5840'

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.

Pond is still under construction

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?	XXXXX	

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 3 of	
2. Is impoundment free of instability, structural weakness, or any other hazardous condition?		XXXXX	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?		XXXXX	

COMMENTS AND OTHER INFORMATION

NONE

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.

REGISTERED PROFESSIONAL ENGINEER # 152606 R. JAY MARSHALL STATE OF UTAH

Cert. Stamp

By: R. Jay Marshall
(Full Name and Title)

Signature: _____ Date: 4/15/09

P.E. Number & State: 152606 UT

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

Lila Canyon Mine

East Carbon, UTAH

Stipulation Response - Rain & Crest Gauge Data and Evaluation - REVISED

Prepared For:

UtahAmerica Energy Inc.
794 C Canyon Road
East Carbon, UT 84520
435.888.4007 Tel

Prepared by:

Hydrologic Design

Hydrologic Design Inc.
4173 Dardanelle Drive
South Jordan, Utah 84095
801.608.2414 Tel
801.576.9259 Fax

Contact:
Thomas J. Suchoski

July 2010

RECEIVED
JUL 12 2010
DIV. OF OIL, GAS & MINING

INTRODUCTION:

On January 2, 2008 the DOGM required additional special stipulations on the prior approval of the Lila Canyon Permit. Stipulations 1 through 4 were on-going stipulations from the prior approval. Stipulations 5 through 9 were new stipulations. This report addresses the stipulation 5 (rain and crest gauges and siphon samplers) requirement to report on the data collected.

The purpose of this study was to address these stipulations and to specifically:

- Described the rain gauge data for the upper and lower areas within the Lila Canyon Mine Permit Area.
- Describe the crest gauge and siphon sampler data from the 7 selected sampling points.

RAIN GAUGES

As reported in the 2008 report, in accordance with stipulation #5, two rain gauges were installed within the Lila Canyon Mine Permit area. One is located to the south of the mine facilities area and one is located on top of the Book Cliffs in the Little Park Wash drainage area (near the IPA #2 well site). The locations of the rain gauges were determined by an Delorme Earthmate PN-20 GPS unit and are shown on Plate 1 and the coordinates and elevations are presented in Table 1.

METHODS: These rain gauges were tipping bucket type rain gauges with a data logger. The data are collected in 0.01" increments with a resolution of 0.01 inches per second. Readings are taken only when precipitation is recorded. The data are stored in the data logger memory until the data are downloaded. When the next sampling period sequence is started, the prior data are erased and overwritten. The data were downloaded during the quarterly sampling efforts.

RESULTS: Tables 2 and 3 present the rainfall data for the 4th quarter of 2008 and the three quarters of 2009 at the lower rain gauge, respectively. Table 4 and 5 present the rainfall data for the 4th quarter of 2008 and the three quarters of 2009 at the upper rain gauge, respectively. Attachment A presents the quarterly data for the upper and lower rain gauge stations.

EVALUATION: These data demonstrate the types of rainfall that are common in the mine site area. As indicated in the PAP, the rainfall was described as a combination of short duration, high intensity thunderstorms and gentle frontal storms. These are the types of storms that were recorded in the data collected. Therefore, the precipitation regime in the mine permit area is as described in the PAP.

CREST GAUGES AND SIPHON SAMPLERS

As reported in the 2008 report, in accordance with stipulation #5, seven (7) sets of crest gauge and siphon sampler were installed on selected drainages within the Lila Canyon Mine Permit area. Plate 1 shows the location of these sites and Table 1 presents the coordinates and elevations.

METHODS: The crest gauges and siphon samplers were checked on at least a quarterly basis and sometimes more frequently as access and manpower were available.

RESULTS: Attachment B presents the flow data for the various crest gauges and the presence of water samples for the various quarters of 2008 and 2009. Table 6 presents the slopes of the channels in the area of the crest gauges and the flow estimates, based on Manning's equation, from the crest gauge flow data.

EVALUATION: As can be seen, the number of flow events recorded were quite limited with only 3 events that generated runoff. Additionally, these events were not distributed over the entire drainage, but were of limited extent. In October 2008, the data indicate that CG-2, CG-3, and CG-7 had no flows. In June 2009, only CG-1 had flow. In September 2009, no flow was recorded at CG-1, CG-2, CG-4, and CG-5.

These flow data are the result of two conditions. First, a number of the events may have occurred, but due to the shape of the channel, the mobile bed allowed the flow to be isolated to a portion of the channel that did not include the crest gauge. Second, the number of rainfall events versus the number of flow events, demonstrate that runoff events are only occurring from the short duration, high intensity precipitation events. Further, as the flows are not occurring for all stations for a given event, the rainfall is extremely isolated and precipitation is not occurring across the entire drainage basin in the mine permit area.

For the siphon samplers, as indicated in Attachment B, only one limited volume sample was able to be collected. This is due to three conditions. First, for several flow

events, no sample was found due to a plugged sampler. The debris carried in the flow either plugged the inlet to the sampler or diverted flow around the inlet. Second, the flat, broad nature of the channels allows flows within the mobile bed to shift with each event. Thus, some of the flows occurred in portions of the channel which were isolated from the sampler. Third, the flow in most of these channels is very shallow and as such could not be collected by the sampler.

CONCLUSIONS:

The data from the rain gauges and the crest staff gauges presents the typical rainfall-runoff conditions for the mine permit area. The conditions described by these data are consistent with the descriptions presented in the PAP for the Lila Canyon Mine.

TABLE 1

Lila Canyon - Water Monitoring Coordinate Data

Site	Latitude	Longitude	Stateplane N (feet)	Stateplane E (feet)	Elevation (ft.)	# of satellites	Error margin (+/-)	Flow Rat	Cond.	Temp	pH
IPA #1	39° 25.514' N	110° 18.439' W	399946.05	2336903.63	7049	6	22				
IPA #2	39° 25.088' N	110° 19.144' W	397316.3	2333618.88	6872	6	17				
IPA #3	39° 24.488' N	110° 18.718' W	393701.03	2335672.92	6820	7	17				
L-01-S	39° 25.6457' N	110° 20.8662' W	400595.57	2325467.03	5826	8	19				
L-02-S	39° 25.5230' N	110° 20.7040' W	399860.709	2326240.081	5934	8	19				
L-07-G	39° 26.450' N	110° 18.223' W	405640.88	2337844.49	7354	5	19				
L-08-G	39° 25.717' N	110° 17.621' W	401229.84	2340737.86	7049	5	45				
L-09-G	39° 24.958' N	110° 17.952' W	396601.96	2339241.56	7036	6	18				
L-11-G	39° 26.618' N	110° 19.781' W	406563.58	2330498.28	7220	4	35				
L-12-G	39° 24.143' N	110° 18.038' W	391649.72	2338902.98	6762	6	29				
L-13-S	39° 24.831' N	110° 19.032' W	395763.35	2334166.82	6820	6	18				
L-14-S	39° 23.960' N	110° 18.472' W	390511.64	2336874	6678	8	19				
L-16-G	39° 24.2498' N	110° 19.5893' W	392201.033	2331589.099	5792	8	19				
L-17-G	39° 24.2957' N	110° 19.4968' W	392485.352	2332021.029	5896	8	19				
L-18-S	39° 23.9966' N	110° 20.1881' W	390627.335	2328789.29	5513	8	19				
L-19-S	39° 24.228' N	110° 19.094' W	392099.45	2333923.26	6700	5	18				
L-20-S	39° 26.314' N	110° 18.916' W	404771.98	2334593.76	7153	9	15				
RAIN GAUGES - APRIL 2008 & AUGUST 2008											
RG-1	39° 25.5620' N	110° 20.8216' W	400090.286	2325683.408	5946	8	19				
RG-2	39° 25.1101' N	110° 19.1383' W	397450.92	2333644.12	6875	8	19				
SPRING & SEEP - APRIL 2008											
JS-1	39° 24.2052' N	110° 19.7143' W	391922.606	2331004.009	5793	8	19	damp	-	-	-
JS-2	39° 24.3467' N	110° 19.5807' W	392789.721	2331621.879	5932	8	19	0.01	+4000	54.3	9.03
TS-1	39° 24.2667' N	110° 19.5851' W	392303.871	2331607.531	5873	8	19	0.01	+4000	40.2	8.68
TS-2	39° 24.2848' N	110° 19.5101' W	392418.37	2331959.268	6005	8	19	damp	-	-	-
TS-3	39° 24.2899' N	110° 19.5168' W	392448.911	2331927.311	5992	8	19	damp	-	-	-
CREST GAUGES - AUGUST 2008											
Lila CG1	39° 25.6006' N	110° 21.0658' W	400309.785	2324530.799	5739	8	19				
Lila CG2	39° 26.7540' N	110° 18.7754' W	407451.416	2335220.175	7303	8	19				
Lila CG3	39° 26.3110' N	110° 18.8839' W	404755.876	2334745.274	7233	8	19				
Lila CG4	39° 25.4918' N	110° 18.8207' W	399787.62	2335108.598	6968	8	19				
Lila CG5	39° 23.9398' N	110° 18.4462' W	390390.749	2336997.324	6675	8	19				
Lila CG6	39° 24.8083' N	110° 18.9742' W	395629.264	2334440.693	6809	8	19				
Lila CG7	39° 23.9969' N	110° 18.9549' W	390705.618	2334596.861	6656	8	19				

Table 2

Lila Canyon Raingauge Data

Lower Site 2008

Date	Duration	Depth (in)
8/31/2008	6 hr	0.07
9/1/2008	40 min	0.08
9/9/2008	2.5 hr	0.11
9/9/2008	30 min	0.1
9/10/2008	6 hr	0.04
9/11/2008	5 hr	0.09
9/20/2008	5 hr	0.05
10/3/2008	8 min	0.03

Table 3

Lila Canyon Raingauge Data

Lower Site 2009

Date	Duration	Depth (in)
3/26/2009	2 hr	0.11
4/1/2009	2 min	0.01
4/3/2009	1 hr	0.02
4/4/2009	1 hr	0.31
4/11/2009	2 hr	0.21
4/12/2009	2 hr	0.02
4/16/2009	1 hr	0.16
4/18/2009	20 min	0.02
4/25/2009	7 hr	0.2
4/26/2009	9 hr	0.32
5/2/2009	19 hr	0.66
5/3/2009	21 hr	0.2
5/4/2009	18 hr	0.65
5/27/2009	2 min	0.02
5/28/2009	10 min	0.05
5/29/2009	1 min	0.01
6/2/2009	1 min	0.02
6/10/2009	20 min	0.03
6/10/2009	40 min	0.04
6/11/2009	5 min	0.02
6/17/2009	50 min	0.04
6/17/2009	3 hr	0.05
6/18/2009	5 min	0.07
6/20/2009	5 hr	0.15
6/21/2009	30 min	0.18
6/25/2009	2.5 hr	0.13
6/26/2009	1.5 hr	0.29
7/3/2009	1.2 hr	0.14
7/4/2009	1 hr	0.16
7/11/2009	5 min	0.01
7/20/2009	5 min	0.01
8/5/2009	12 min	0.02
8/6/2009	2 hr	0.08
8/23/2009	12 min	0.17
8/24/2009	30 min	0.05
8/29/2009	2 min	0.02
9/14/2009	6 hr	0.26
9/15/2009	2 hr	1.13
10/1/2009	2 min	0.01

Table 4

Lila Canyon Raingauge Data

Upper Site 2008

Date	Duration	Depth (in)
10/4/2008	15 hr	0.91
10/20/2008	17 hr	0.07
10/29/2008	2 min	0.01
11/2/2008	6 hr	0.63
11/4/2008	8 min	0.01
11/27/2008	7 hr	0.13
11/28/2008	5 min	0.01
12/16/2008	4.5 hr	0.13
12/17/2008	5 min	0.01
12/18/2008	5 min	0.01
12/20/2008	5 min	0.01
12/21/2008	5 min	0.01
12/23/2008	5 hr	0.11
12/30/2008	3 hr	0.17
12/31/2008	10 min	0.03

Table 5

Lila Canyon Raingauge Data

Upper Site 2009

Date	Duration	Depth (in)
1/1/2009	3.5 hr	0.26
1/3/2009	2 min	0.01
1/19/2009	10 min	0.04
1/23/2009	5 hr	0.02
1/24/2009	8 hr	0.18
1/26/2009	1 hr	0.12
2/8/2009	30 min	0.04
2/9/2009	5 min	0.01
2/10/2009	5 min	0.01
2/13/2009	5 min	0.01
2/14/2009	1 hr	0.02
2/15/2009	10 min	0.01
2/17/2009	2 hr	0.13
2/23/2009	1 hr	0.06
3/7/2009	10 min	0.01
3/26/2009	2.5 hr	0.12
4/1/2009	4 hr	0.28
4/4/2009	2.5 hr	0.32
4/11/2009	45 min	0.2
4/12/2009	4 hr	0.02
4/16/2009	1.5 hr	0.23
4/18/2009	30 min	0.04
4/25/2009	1 hr	0.09
4/26/2009	7 hr	0.38
5/2/2009	7 hr	0.48
5/20/2009	10 min	0.04
5/21/2009	5 min	0.01
5/22/2009	6 hr	0.17
5/23/2009	13 hr	0.17
5/24/2009	17 hr	0.49
5/26/2009	10 min	0.07
5/28/2009	10 min	0.03
5/29/2009	30 min	0.08
6/2/2009	5 min	0.18
6/9/2009	30 min	0.06
6/10/2009	4 hr	0.04
6/11/2009	15 min	0.04

Table 5

Lila Canyon Raingauge Data

Upper Site 2009

Date	Duration	Depth (in)
6/17/2009	4 hr	0.06
6/18/2009	4 hr	0.08
6/20/2009	1 hr	0.28
6/21/2009	3 hr	0.11
6/25/2009	2.5 hr	0.09
6/26/2009	3 hr	0.37
7/3/2009	1 hr	0.09
7/4/2009	1 hr	0.15
7/11/2009	5 min	0.01
7/20/2009	5 min	0.05
7/25/2009	5 min	0.01
7/26/2009	20 min	0.1
8/6/2009	5 min	0.01
8/23/2009	1.5 hr	0.04
8/24/2009	5 min	0.01
8/25/2009	5 min	0.01
8/29/2009	5 min	0.02
9/15/2009	4 hr	0.34
9/15/2009	4 hr	1.57
9/20/2009	2 min	0.01
9/27/2009	2 min	0.02
10/1/2009	3 min	0.03

Table 6

Lila Canyon Crest Gauge Data

Channel Slope Determination

Stage ID	Channel Length (ft)	Channel Drop (ft)	Channel Slope (%)
CG-1	1020	50	4.90
CG-2	2055	50	2.43
CG-3	2510	50	1.99
CG-4	2965	50	1.69
CG-5	3180	50	1.57
CG-6	2430	50	2.06
CG-7	4650	100	2.15

Flow Determination

	Depth (in)	Width (ft)	Channel Slope (%)	Manning's n	Velocity (fps)	Flow (cfs)
Oct-08						
CG-1	0.5	2	4.90	0.035	1.13	0.09
CG-4	1.75	6	1.69	0.03	1.78	1.56
CG-5	19	13	1.57	0.03	8.43	173.57
CG-6	0.75	4	2.06	0.03	1.12	0.28
Jun-09						
CG-1	5	8	4.9	0.035	5.24	17.47
Sep-09						
CG-3	4	10	1.99	0.03	3.36	11.19
CG-6	6	15	2.06	0.03	4.48	33.58
CG-7	6	20	2.15	0.03	4.57	45.74

ATTACHMENT A

Quarterly Data Summary for Upper and Lower Rain Gauges

Upper Gauge Data

Series	Event (Events)
Logger Info	Information specific to the logger
Model	HOBO Event (C) 1996 ONSET Computer Corp
Serial Number	11362
Memory Size (Bytes)	32768
Extra Info	Information used by tech support
Model Number	7
Version Number	4
Deployment	3
Series Info	Information about the data in the series
Points Used	589
First Point	10/03/08 09:52:26.0
Last Point	12/31/2009 14:20:35 AM
Duration	90 Days 00:28:09.0
Stats	Calculated from the series
Wrap Count	0
Event Sum	223.00
Launch Parameters	Mirrors the launch dialog settings
Description	2008-4qtr - Lila upper raingauge
Wrap	Off
Delay Start	Off
Stealth Mode	Off
Event Name	Events
Event Value	1.00
Lockout After Event	00:00:01.0

Date/Time	Event (Events)
10/03/08 09:52:26.0	0
10/04/08 08:28:47.0	1
10/04/08 08:33:04.0	2
10/04/08 08:43:07.5	3
10/04/08 09:04:40.5	4
10/04/08 09:19:00.0	5
10/04/08 09:26:25.5	6
10/04/08 09:32:25.5	7
10/04/08 09:38:18.5	8
10/04/08 09:48:46.0	9
10/04/08 09:59:01.0	10
10/04/08 10:09:12.5	11
10/04/08 10:16:04.0	12
10/04/08 10:23:49.5	13
10/04/08 10:29:47.0	14
10/04/08 10:34:56.5	15
10/04/08 10:39:51.0	16
10/04/08 10:43:52.5	17
10/04/08 10:49:22.0	18
10/04/08 10:54:35.0	19
10/04/08 11:01:15.0	20
10/04/08 11:05:49.5	21
10/04/08 11:09:52.0	22
10/04/08 11:16:34.0	23

10/04/08 11:23:34.0	24
10/04/08 11:31:18.0	25
10/04/08 11:39:46.5	26
10/04/08 11:49:14.0	27
10/04/08 12:00:31.5	28
10/04/08 12:12:40.0	29
10/04/08 12:21:35.0	30
10/04/08 12:27:06.5	31
10/04/08 12:32:55.0	32
10/04/08 12:39:21.0	33
10/04/08 12:45:09.5	34
10/04/08 12:49:28.5	35
10/04/08 12:56:16.0	36
10/04/08 13:03:06.5	37
10/04/08 13:07:48.5	38
10/04/08 13:12:46.5	39
10/04/08 13:19:07.5	40
10/04/08 13:24:42.5	41
10/04/08 13:30:53.5	42
10/04/08 13:36:55.5	43
10/04/08 13:43:31.5	44
10/04/08 13:48:18.5	45
10/04/08 13:53:15.5	46
10/04/08 13:57:17.0	47
10/04/08 14:02:35.0	48
10/04/08 14:13:47.0	49
10/04/08 14:21:15.5	50
10/04/08 14:26:35.0	51
10/04/08 14:33:08.5	52
10/04/08 14:43:57.0	53
10/04/08 15:14:07.0	54
10/04/08 15:36:39.5	55
10/04/08 15:48:00.0	56
10/04/08 15:52:41.5	57
10/04/08 15:57:51.5	58
10/04/08 16:03:12.0	59
10/04/08 16:15:53.0	60
10/04/08 16:42:35.5	61
10/04/08 17:06:24.5	62
10/04/08 17:17:13.5	63
10/04/08 17:23:22.0	64
10/04/08 17:27:09.5	65
10/04/08 17:41:59.5	66
10/04/08 18:09:46.5	67
10/04/08 18:21:31.5	68
10/04/08 18:26:26.5	69
10/04/08 18:36:37.5	70
10/04/08 18:43:10.0	71
10/04/08 18:53:56.0	72
10/04/08 19:19:25.5	73
10/04/08 19:39:53.0	74

10/04/08 19:43:07.0	75	
10/04/08 19:51:02.5	76	
10/04/08 19:58:50.5	77	
10/04/08 20:02:46.5	78	
10/04/08 20:06:24.0	79	
10/04/08 20:18:59.5	80	
10/04/08 20:31:12.5	81	
10/04/08 20:36:20.0	82	
10/04/08 20:47:52.5	83	
10/04/08 21:01:59.0	84	
10/04/08 21:14:33.0	85	
10/04/08 21:27:14.0	86	
10/04/08 21:49:31.0	87	
10/04/08 22:08:16.5	88	
10/04/08 22:31:45.5	89	
10/04/08 23:52:22.0	90	
10/05/08 02:48:57.5	91	0.91
10/20/08 06:20:31.0	92	
10/20/08 06:23:58.5	93	
10/20/08 06:37:38.5	94	
10/20/08 07:37:40.5	95	
10/20/08 09:26:58.5	96	
10/20/08 12:38:34.0	97	
10/20/08 17:40:47.5	98	0.07
10/29/08 07:11:31.0	99	0.01
11/02/08 09:49:54.5	100	
11/02/08 10:09:36.0	101	
11/02/08 10:45:27.0	102	
11/02/08 10:52:59.0	103	
11/02/08 11:01:14.5	104	
11/02/08 11:12:08.5	105	
11/02/08 11:17:48.0	106	
11/02/08 11:22:57.5	107	
11/02/08 11:28:30.0	108	
11/02/08 11:32:06.0	109	
11/02/08 11:53:51.0	110	
11/02/08 11:56:48.0	111	
11/02/08 11:58:50.0	112	
11/02/08 11:59:58.5	113	
11/02/08 12:01:31.5	114	
11/02/08 12:02:53.0	115	
11/02/08 12:05:05.0	116	
11/02/08 12:11:04.5	117	
11/02/08 12:22:43.5	118	
11/02/08 12:25:03.5	119	
11/02/08 12:38:23.5	120	
11/02/08 12:47:43.5	121	
11/02/08 13:00:40.0	122	
11/02/08 13:06:00.5	123	
11/02/08 13:06:51.5	124	
11/02/08 13:07:50.0	125	

11/02/08 13:09:05.0	126	
11/02/08 13:09:48.0	127	
11/02/08 13:10:37.0	128	
11/02/08 13:11:33.5	129	
11/02/08 13:12:21.5	130	
11/02/08 13:12:52.0	131	
11/02/08 13:13:20.0	132	
11/02/08 13:13:46.5	133	
11/02/08 13:14:56.0	134	
11/02/08 13:15:36.0	135	
11/02/08 13:17:03.0	136	
11/02/08 13:18:41.5	137	
11/02/08 13:20:45.0	138	
11/02/08 13:22:38.5	139	
11/02/08 13:26:02.5	140	
11/02/08 13:30:44.0	141	
11/02/08 13:41:53.0	142	
11/02/08 13:42:44.5	143	
11/02/08 13:46:04.0	144	
11/02/08 13:52:14.0	145	
11/02/08 14:00:13.0	146	
11/02/08 14:05:12.0	147	
11/02/08 16:26:21.5	148	
11/02/08 16:27:07.0	149	
11/02/08 16:27:36.0	150	
11/02/08 16:27:52.0	151	
11/02/08 16:28:36.0	152	
11/02/08 16:29:23.5	153	
11/02/08 16:31:44.5	154	
11/02/08 16:35:50.0	155	
11/02/08 16:37:49.5	156	
11/02/08 16:38:35.0	157	
11/02/08 16:39:41.0	158	
11/02/08 16:40:18.5	159	
11/02/08 16:40:58.5	160	
11/02/08 16:41:32.0	161	
11/02/08 16:44:11.0	162	0.63
11/04/08 15:42:07.5	163	0.01
11/27/08 12:28:19.5	164	
11/27/08 12:40:08.0	165	
11/27/08 13:14:05.0	166	
11/27/08 13:39:21.0	167	
11/27/08 14:15:41.5	168	
11/27/08 15:53:16.5	169	
11/27/08 16:31:05.5	170	
11/27/08 17:00:21.0	171	
11/27/08 17:18:43.5	172	
11/27/08 17:34:17.0	173	
11/27/08 17:51:53.0	174	
11/27/08 18:34:37.0	175	
11/27/08 19:44:23.5	176	0.13

11/28/08 04:00:55.0	177	0.01
12/16/08 12:06:36.5	178	
12/16/08 12:13:11.5	179	
12/16/08 12:17:59.5	180	
12/16/08 13:42:18.5	181	
12/16/08 13:44:07.0	182	
12/16/08 13:46:30.0	183	
12/16/08 13:50:30.5	184	
12/16/08 13:54:55.0	185	
12/16/08 13:59:04.0	186	
12/16/08 14:05:59.5	187	
12/16/08 14:16:32.0	188	
12/16/08 14:25:16.5	189	
12/16/08 14:43:49.0	190	0.13
12/17/08 11:19:35.0	191	0.01
12/18/08 15:28:12.0	192	0.01
12/20/08 20:01:43.0	193	0.01
12/21/08 14:31:41.0	194	0.01
12/23/08 10:00:57.0	195	
12/23/08 10:04:53.5	196	
12/23/08 10:08:04.0	197	
12/23/08 10:12:42.0	198	
12/23/08 14:24:11.0	199	
12/23/08 14:33:22.5	200	
12/23/08 14:43:20.0	201	
12/23/08 15:10:15.0	202	
12/23/08 15:23:35.5	203	0.11
12/30/08 12:26:06.0	204	
12/30/08 12:34:57.5	205	
12/30/08 12:54:13.5	206	
12/30/08 13:03:53.0	207	
12/30/08 13:15:02.0	208	
12/30/08 13:24:27.0	209	
12/30/08 13:34:30.0	210	
12/30/08 13:40:27.5	211	
12/30/08 13:46:07.5	212	
12/30/08 14:00:17.0	213	
12/30/08 14:10:39.5	214	
12/30/08 14:22:08.5	215	
12/30/08 14:32:22.0	216	
12/30/08 14:43:44.5	217	
12/30/08 14:57:36.5	218	
12/30/08 15:10:54.0	219	
12/30/08 15:29:59.5	220	0.17
12/31/08 10:51:23.5	221	
12/31/08 11:03:32.0	222	
12/31/08 11:10:39.5	223	0.03

Series	Event (Events)
Logger Info	Information specific to the logger
Model	HOBO Event (C) 1996 ONSET Computer Corp
Serial Number	11362
Memory Size (Bytes)	32768
Extra Info	Information used by tech support
Model Number	7
Version Number	4
Deployment	3
Series Info	Information about the data in the series
Points Used	589
First Point	12/31/2009 14:52:26 AM
Last Point	4/1/2009 0:20
Duration	91 Days 00:28:09.0
Stats	Calculated from the series
Wrap Count	0
Event Sum	105.00
Launch Parameters	Mirrors the launch dialog settings
Description	2009-1qtr - Lila upper raingauge
Wrap	Off
Delay Start	Off
Stealth Mode	Off
Event Name	Events
Event Value	1.00
Lockout After Event	00:00:01.0

Date/Time	Event (Events)
01/01/09 07:52:26.26	0
01/01/09 08:28:47.47	1
01/01/09 08:33:04.4	2
01/01/09 08:43:07.7	3
01/01/09 09:04:40.40	4
01/01/09 09:19:00.0	5
01/01/09 09:26:26.26	6
01/01/09 09:32:25.25	7
01/01/09 09:38:19.19	8
01/01/09 09:48:46.46	9
01/01/09 09:59:01.1	10
01/01/09 10:09:12.12	11
01/01/09 10:16:04.4	12
01/01/09 10:23:49.49	13
01/01/09 10:29:47.47	14
01/01/09 10:34:56.56	15
01/01/09 10:39:51.51	16
01/01/09 10:43:53.53	17

01/01/09 10:49:22.22	18	
01/01/09 10:54:35.35	19	
01/01/09 11:01:15.15	20	
01/01/09 11:05:49.49	21	
01/01/09 11:09:52.52	22	
01/01/09 11:16:34.34	23	
01/01/09 11:23:34.34	24	
01/01/09 11:31:18.18	25	
01/01/09 11:39:46.46	26	0.26
01/03/09 09:43:45.5	27	0.01
01/19/09 16:30:46.0	28	
01/19/09 16:30:47.5	29	
01/19/09 16:30:55.0	30	
01/19/09 16:30:58.5	31	0.04
01/23/09 02:34:50.5	32	
01/23/09 09:07:27.5	33	0.02
01/24/09 01:44:43.0	34	
01/24/09 02:28:43.0	35	
01/24/09 03:26:04.5	36	
01/24/09 05:02:15.5	37	
01/24/09 05:19:46.0	38	
01/24/09 07:43:11.0	39	
01/24/09 07:55:57.5	40	
01/24/09 09:12:37.0	41	
01/24/09 09:19:52.5	42	
01/24/09 09:24:46.0	43	
01/24/09 09:29:10.5	44	
01/24/09 09:33:47.5	45	
01/24/09 09:39:42.5	46	
01/24/09 09:47:41.0	47	
01/24/09 10:00:39.5	48	
01/24/09 10:11:36.5	49	
01/24/09 10:25:25.5	50	
01/24/09 10:37:52.0	51	0.18
01/26/09 10:31:40.0	52	
01/26/09 12:43:18.0	53	
01/26/09 12:43:44.5	54	
01/26/09 12:45:29.5	55	
01/26/09 12:47:10.0	56	
01/26/09 12:49:13.0	57	
01/26/09 12:50:54.0	58	
01/26/09 12:55:28.5	59	
01/26/09 12:59:00.5	60	
01/26/09 13:05:28.0	61	
01/26/09 13:10:18.0	62	

01/26/09 13:23:26.5	63	0.12
02/08/09 11:21:50.0	64	
02/08/09 11:27:57.5	65	
02/08/09 11:35:46.5	66	
02/08/09 12:08:45.5	67	0.04
02/09/09 11:43:53.5	68	0.01
02/10/09 12:52:13.0	69	0.01
02/13/09 10:52:11.0	70	0.01
02/14/09 11:45:45.0	71	
02/14/09 12:29:40.0	72	0.02
02/15/09 12:52:56.5	73	0.01
02/17/09 08:53:29.5	74	
02/17/09 08:56:17.0	75	
02/17/09 09:00:14.0	76	
02/17/09 09:07:06.5	77	
02/17/09 09:21:11.0	78	
02/17/09 10:28:24.5	79	
02/17/09 10:32:03.0	80	
02/17/09 10:35:39.0	81	
02/17/09 10:39:49.0	82	
02/17/09 10:43:57.0	83	
02/17/09 10:54:51.0	84	
02/17/09 11:02:40.5	85	
02/17/09 11:11:33.5	86	0.13
02/23/09 13:31:04.5	87	
02/23/09 13:41:42.0	88	
02/23/09 13:48:45.5	89	
02/23/09 14:01:03.5	90	
02/23/09 14:16:35.0	91	
02/23/09 14:47:24.0	92	0.06
03/07/09 09:13:40.0	93	0.01
03/26/09 08:53:30.0	94	
03/26/09 08:57:28.0	95	
03/26/09 10:32:43.5	96	
03/26/09 10:34:45.0	97	
03/26/09 10:38:50.0	98	
03/26/09 10:41:54.5	99	
03/26/09 10:45:48.5	100	
03/26/09 10:49:12.5	101	
03/26/09 10:53:54.5	102	
03/26/09 10:58:18.0	103	
03/26/09 11:06:18.0	104	
03/26/09 11:21:19.0	105	0.12

Series	Event (Events)
Logger Info	Information specific to the logger
Model	HOBO Event (C) 1996 ONSET Computer Corp
Serial Number	11362
Memory Size (Bytes)	32768
Extra Info	Information used by tech support
Model Number	7
Version Number	4
Deployment	3
Series Info	Information about the data in the series
Points Used	589
First Point	4/1/2009 0:20
Last Point	6/2/2009 9:20
Duration	63 Days 00:08:15.0
Stats	Calculated from the series
Wrap Count	0
Event Sum	312.00
Launch Parameters	Mirrors the launch dialog settings
Description	2009-2qtr - Lila upper raingauge
Wrap	Off
Delay Start	Off
Stealth Mode	Off
Event Name	Events
Event Value	1.00
Lockout After Event	00:00:01.0

Date/Time	Event (Events)
04/01/09 00:52:26.26	0
04/01/09 01:28:47.47	1
04/01/09 01:33:04.4	2
04/01/09 01:43:07.7	3
04/01/09 02:04:40.40	4
04/01/09 02:19:00.0	5
04/01/09 02:26:26.26	6
04/01/09 02:32:25.25	7
04/01/09 02:38:19.19	8
04/01/09 02:48:46.46	9
04/01/09 02:59:01.1	10
04/01/09 03:09:12.12	11
04/01/09 03:16:04.4	12
04/01/09 03:23:49.49	13
04/01/09 03:29:47.47	14
04/01/09 03:34:56.56	15
04/01/09 03:39:51.51	16
04/01/09 03:43:53.53	17

04/01/09 03:49:22.22	18	
04/01/09 03:54:35.35	19	
04/01/09 04:01:15.15	20	
04/01/09 04:05:49.49	21	
04/01/09 04:09:52.52	22	
04/01/09 04:16:34.34	23	
04/01/09 04:23:34.34	24	
04/01/09 04:31:18.18	25	
04/01/09 04:39:47.47	26	
04/01/09 09:18:12.12	27	
04/01/09 09:42:27.5	28	0.28
04/04/09 02:21:48.5	29	
04/04/09 12:20:27.0	30	
04/04/09 12:21:26.0	31	
04/04/09 12:23:07.0	32	
04/04/09 12:25:10.5	33	
04/04/09 12:27:05.0	34	
04/04/09 12:29:12.5	35	
04/04/09 12:31:07.0	36	
04/04/09 12:33:28.0	37	
04/04/09 12:35:32.5	38	
04/04/09 12:38:42.5	39	
04/04/09 12:41:25.5	40	
04/04/09 12:44:28.5	41	
04/04/09 12:47:04.0	42	
04/04/09 12:50:14.5	43	
04/04/09 12:54:17.5	44	
04/04/09 13:03:03.5	45	
04/04/09 13:10:03.0	46	
04/04/09 13:17:15.0	47	
04/04/09 13:21:40.5	48	
04/04/09 13:27:19.5	49	
04/04/09 13:29:11.5	50	
04/04/09 13:31:53.5	51	
04/04/09 13:34:05.5	52	
04/04/09 13:36:23.0	53	
04/04/09 13:38:33.5	54	
04/04/09 13:41:24.0	55	
04/04/09 13:45:58.5	56	
04/04/09 13:52:16.0	57	
04/04/09 13:57:28.5	58	
04/04/09 14:03:27.0	59	
04/04/09 14:09:09.0	60	0.32
04/11/09 11:46:07.0	61	
04/11/09 11:47:12.5	62	

04/11/09 11:48:29.5	63	
04/11/09 11:49:33.0	64	
04/11/09 11:50:56.0	65	
04/11/09 11:52:16.0	66	
04/11/09 11:54:48.0	67	
04/11/09 11:56:24.0	68	
04/11/09 11:58:39.0	69	
04/11/09 12:00:29.5	70	
04/11/09 12:03:02.5	71	
04/11/09 12:05:21.0	72	
04/11/09 12:07:59.5	73	
04/11/09 12:10:02.5	74	
04/11/09 12:13:06.0	75	
04/11/09 12:16:07.5	76	
04/11/09 12:21:21.5	77	
04/11/09 12:26:12.5	78	
04/11/09 12:33:00.0	79	
04/11/09 12:36:34.5	80	0.2
04/12/09 03:07:00.0	81	
04/12/09 07:54:33.5	82	0.02
04/16/09 11:14:10.0	83	
04/16/09 11:16:55.5	84	
04/16/09 11:19:57.0	85	
04/16/09 11:22:37.0	86	
04/16/09 11:24:35.5	87	
04/16/09 11:26:39.0	88	
04/16/09 11:30:10.0	89	
04/16/09 11:33:00.5	90	
04/16/09 11:36:46.0	91	
04/16/09 11:40:31.5	92	
04/16/09 11:46:56.5	93	
04/16/09 11:53:25.5	94	
04/16/09 12:06:45.0	95	
04/16/09 12:16:28.0	96	
04/16/09 12:23:44.0	97	
04/16/09 12:26:58.5	98	
04/16/09 12:30:19.5	99	
04/16/09 12:33:18.0	100	
04/16/09 12:37:27.5	101	
04/16/09 12:40:54.0	102	
04/16/09 12:46:21.5	103	
04/16/09 12:50:33.0	104	
04/16/09 12:55:35.0	105	0.23
04/18/09 15:56:28.0	106	
04/18/09 15:59:44.0	107	

04/18/09 16:04:12.5	108	
04/18/09 16:29:07.5	109	0.04
04/25/09 17:08:27.5	110	
04/25/09 17:16:58.0	111	
04/25/09 17:24:33.0	112	
04/25/09 17:30:26.5	113	
04/25/09 17:36:21.0	114	
04/25/09 17:44:10.5	115	
04/25/09 17:57:17.0	116	
04/25/09 18:09:06.5	117	
04/25/09 18:14:45.5	118	0.09
04/26/09 10:56:50.5	119	
04/26/09 10:58:46.5	120	
04/26/09 11:00:52.5	121	
04/26/09 11:02:18.0	122	
04/26/09 11:03:43.5	123	
04/26/09 11:04:53.0	124	
04/26/09 11:06:20.0	125	
04/26/09 11:07:35.5	126	
04/26/09 11:09:13.0	127	
04/26/09 11:10:35.0	128	
04/26/09 11:12:12.5	129	
04/26/09 11:13:37.0	130	
04/26/09 11:15:34.0	131	
04/26/09 11:17:02.0	132	
04/26/09 11:18:52.5	133	
04/26/09 11:20:16.5	134	
04/26/09 11:21:58.5	135	
04/26/09 11:23:14.0	136	
04/26/09 11:24:48.5	137	
04/26/09 11:26:03.5	138	
04/26/09 11:27:31.5	139	
04/26/09 11:28:41.0	140	
04/26/09 11:30:10.5	141	
04/26/09 11:31:24.0	142	
04/26/09 11:32:54.0	143	
04/26/09 11:34:03.5	144	
04/26/09 11:35:30.5	145	
04/26/09 11:36:40.5	146	
04/26/09 11:38:07.5	147	
04/26/09 11:39:20.5	148	
04/26/09 11:40:52.0	149	
04/26/09 11:42:07.5	150	
04/26/09 11:43:53.5	151	
04/26/09 11:45:51.0	152	

04/26/09 11:48:59.5	153	
04/26/09 11:51:02.0	154	
04/26/09 15:30:28.0	155	
04/26/09 18:46:28.5	156	0.38
05/02/09 05:27:15.0	157	
05/02/09 05:45:08.0	158	
05/02/09 06:00:58.5	159	
05/02/09 06:18:17.5	160	
05/02/09 06:40:44.0	161	
05/02/09 06:59:05.0	162	
05/02/09 08:58:43.5	163	
05/02/09 09:16:57.0	164	
05/02/09 09:23:23.0	165	
05/02/09 09:27:05.0	166	
05/02/09 09:30:17.0	167	
05/02/09 09:33:44.5	168	
05/02/09 09:36:18.5	169	
05/02/09 09:38:35.5	170	
05/02/09 09:41:25.0	171	
05/02/09 09:43:21.0	172	
05/02/09 09:45:53.0	173	
05/02/09 09:48:10.5	174	
05/02/09 09:50:14.5	175	
05/02/09 09:51:52.5	176	
05/02/09 09:53:16.5	177	
05/02/09 09:54:51.5	178	
05/02/09 09:57:12.5	179	
05/02/09 10:00:02.0	180	
05/02/09 10:04:01.5	181	
05/02/09 10:07:00.0	182	
05/02/09 10:10:36.5	183	
05/02/09 10:12:41.5	184	
05/02/09 10:14:08.5	185	
05/02/09 10:16:18.5	186	
05/02/09 10:18:17.5	187	
05/02/09 10:19:53.5	188	
05/02/09 10:21:57.0	189	
05/02/09 10:24:10.5	190	
05/02/09 10:27:56.0	191	
05/02/09 10:31:16.0	192	
05/02/09 10:38:30.5	193	
05/02/09 10:47:55.0	194	
05/02/09 11:06:53.5	195	
05/02/09 11:46:39.5	196	
05/02/09 11:54:24.0	197	

05/02/09 11:56:08.5	198	
05/02/09 11:58:28.5	199	
05/02/09 12:00:14.0	200	
05/02/09 12:03:22.0	201	
05/02/09 12:04:49.0	202	
05/02/09 12:09:14.0	203	
05/02/09 12:25:11.5	204	0.48
05/20/09 19:38:39.5	205	
05/20/09 19:41:26.0	206	
05/20/09 19:44:10.0	207	
05/20/09 19:46:47.0	208	0.04
05/21/09 19:20:59.5	209	0.01
05/22/09 19:00:37.5	210	
05/22/09 19:01:41.0	211	
05/22/09 19:02:00.0	212	
05/22/09 19:02:34.5	213	
05/22/09 19:05:11.0	214	
05/22/09 19:06:49.0	215	
05/22/09 19:07:35.5	216	
05/22/09 19:09:04.5	217	
05/22/09 19:13:41.0	218	
05/22/09 19:38:25.5	219	
05/22/09 20:26:56.5	220	
05/22/09 20:38:30.5	221	
05/22/09 20:46:32.5	222	
05/22/09 20:56:33.0	223	
05/22/09 21:15:43.5	224	
05/22/09 23:00:37.0	225	
05/22/09 23:22:02.0	226	0.17
05/23/09 04:09:36.0	227	
05/23/09 04:25:55.0	228	
05/23/09 07:53:25.5	229	
05/23/09 08:40:50.0	230	
05/23/09 09:32:01.0	231	
05/23/09 09:47:55.0	232	
05/23/09 10:23:14.5	233	
05/23/09 11:13:58.0	234	
05/23/09 11:38:50.5	235	
05/23/09 12:15:54.0	236	
05/23/09 12:30:31.5	237	
05/23/09 13:22:01.5	238	
05/23/09 15:25:47.0	239	
05/23/09 15:36:21.0	240	
05/23/09 16:04:50.0	241	
05/23/09 17:00:19.0	242	

05/23/09 17:43:30.0	243	0.17
05/24/09 01:42:12.5	244	
05/24/09 02:01:44.5	245	
05/24/09 02:11:06.0	246	
05/24/09 02:21:07.5	247	
05/24/09 02:32:42.0	248	
05/24/09 02:53:48.0	249	
05/24/09 03:00:15.5	250	
05/24/09 03:05:40.5	251	
05/24/09 03:06:33.0	252	
05/24/09 03:07:39.0	253	
05/24/09 03:08:42.0	254	
05/24/09 03:10:52.5	255	
05/24/09 03:12:24.5	256	
05/24/09 03:14:43.5	257	
05/24/09 03:17:57.5	258	
05/24/09 03:19:45.0	259	
05/24/09 03:20:20.5	260	
05/24/09 03:45:25.5	261	
05/24/09 03:46:48.0	262	
05/24/09 03:47:22.0	263	
05/24/09 03:47:45.5	264	
05/24/09 03:48:03.5	265	
05/24/09 03:48:19.0	266	
05/24/09 03:48:36.5	267	
05/24/09 03:48:52.5	268	
05/24/09 03:49:14.0	269	
05/24/09 03:49:54.0	270	
05/24/09 03:52:30.5	271	
05/24/09 04:14:28.0	272	
05/24/09 04:20:38.5	273	
05/24/09 06:29:10.0	274	
05/24/09 18:00:39.5	275	
05/24/09 18:07:22.5	276	
05/24/09 18:08:52.0	277	
05/24/09 18:10:49.0	278	
05/24/09 18:13:18.0	279	
05/24/09 18:14:37.5	280	
05/24/09 18:17:52.5	281	
05/24/09 18:19:57.5	282	
05/24/09 18:21:55.5	283	
05/24/09 18:24:33.0	284	
05/24/09 18:31:06.0	285	
05/24/09 18:34:13.0	286	
05/24/09 18:41:06.5	287	

05/24/09 18:44:03.0	288	
05/24/09 18:46:36.5	289	
05/24/09 18:48:51.0	290	
05/24/09 18:51:28.5	291	
05/24/09 18:54:07.5	292	0.49
05/26/09 16:03:26.0	293	
05/26/09 16:04:28.0	294	
05/26/09 16:06:43.0	295	
05/26/09 16:07:43.0	296	
05/26/09 16:08:18.0	297	
05/26/09 16:08:49.0	298	
05/26/09 16:09:37.5	299	0.07
05/28/09 17:02:47.0	300	
05/28/09 17:04:33.0	301	
05/28/09 17:06:41.0	302	0.03
05/29/09 14:41:38.5	303	
05/29/09 14:42:30.0	304	
05/29/09 14:43:56.5	305	
05/29/09 14:45:18.5	306	
05/29/09 14:47:09.0	307	
05/29/09 14:54:16.0	308	
05/29/09 15:04:18.5	309	
05/29/09 19:00:42.0	310	0.08
06/02/09 10:20:18.0	311	
06/02/09 10:20:35.0	312	0.02

Series	Event (Events)
Logger Info	Information specific to the logger
Model	HOBO Event (C) 1996 ONSET Computer Corp
Serial Number	11362
Memory Size (Bytes)	32768
Extra Info	Information used by tech support
Model Number	7
Version Number	4
Deployment	4
Series Info	Information about the data in the series
Points Used	182
First Point	06/02/09 10:17:37.0
Last Point	08/29/09 14:23:08.5
Duration	88 Days 04:05:31.5
Stats	Calculated from the series
Wrap Count	0
Event Sum	180.00
Launch Parameters	Mirrors the launch dialog settings
Description	2009-3qtr - Lila upper raingauge
Wrap	Off
Delay Start	Off
Stealth Mode	Off
Event Name	Events
Event Value	1.00
Lockout After Event	00:00:01.0

Date/Time	Event (Events)
06/02/09 10:17:37.0	0
06/02/09 10:17:53.0	1
06/02/09 10:18:15.0	2
06/02/09 10:18:16.5	3
06/02/09 10:18:18.5	4
06/02/09 14:24:55.5	5
06/02/09 14:25:56.0	6
06/02/09 14:26:52.0	7
06/02/09 14:27:21.0	8
06/02/09 14:27:55.0	9
06/02/09 14:28:40.0	10
06/02/09 14:29:40.0	11
06/02/09 14:33:00.5	12
06/02/09 15:47:47.0	13
06/02/09 15:55:31.0	14
06/02/09 16:13:13.5	15
06/02/09 16:15:43.5	16

06/02/09 16:18:48.5	17	
06/02/09 16:22:56.5	18	0.18
06/09/09 23:12:14.0	19	
06/09/09 23:27:24.5	20	
06/09/09 23:43:40.5	21	0.03
06/10/09 00:09:51.5	22	
06/10/09 00:52:55.5	23	
06/10/09 01:04:20.0	24	
06/10/09 09:01:35.0	25	
06/10/09 09:16:26.5	26	
06/10/09 16:48:36.5	27	
06/10/09 20:07:56.0	28	0.06
06/11/09 08:10:02.0	29	
06/11/09 14:31:54.0	30	
06/11/09 14:35:05.0	31	
06/11/09 14:41:00.5	32	0.04
06/17/09 01:58:28.0	33	
06/17/09 02:09:40.5	34	
06/17/09 02:27:03.0	35	
06/17/09 03:24:45.5	36	
06/17/09 17:24:02.0	37	
06/17/09 17:32:31.5	38	0.06
06/18/09 11:35:33.0	39	
06/18/09 11:52:54.0	40	
06/18/09 15:32:09.5	41	
06/18/09 15:34:41.0	42	
06/18/09 15:35:59.5	43	
06/18/09 15:37:00.0	44	
06/18/09 15:37:50.5	45	
06/18/09 15:38:48.5	46	0.08
06/20/09 19:56:01.5	47	
06/20/09 19:58:36.0	48	
06/20/09 20:00:06.5	49	
06/20/09 20:04:38.0	50	
06/20/09 20:06:05.5	51	
06/20/09 20:07:21.0	52	
06/20/09 20:08:12.5	53	
06/20/09 20:09:03.5	54	
06/20/09 20:09:21.0	55	
06/20/09 20:09:36.5	56	
06/20/09 20:09:52.0	57	
06/20/09 20:10:05.0	58	
06/20/09 20:10:18.0	59	
06/20/09 20:10:29.0	60	

06/20/09 20:10:40.5	61	
06/20/09 20:10:50.0	62	
06/20/09 20:10:59.0	63	
06/20/09 20:11:10.5	64	
06/20/09 20:11:23.0	65	
06/20/09 20:11:35.5	66	
06/20/09 20:11:48.5	67	
06/20/09 20:12:03.0	68	
06/20/09 20:12:19.5	69	
06/20/09 20:12:38.0	70	
06/20/09 20:13:36.5	71	
06/20/09 20:18:30.0	72	
06/20/09 20:22:04.5	73	
06/20/09 20:51:32.5	74	0.28
06/21/09 05:37:59.0	75	
06/21/09 05:48:48.5	76	
06/21/09 12:02:20.0	77	
06/21/09 12:42:13.5	78	
06/21/09 12:48:21.0	79	
06/21/09 12:50:41.0	80	
06/21/09 12:52:58.0	81	
06/21/09 12:53:28.5	82	
06/21/09 12:54:49.0	83	
06/21/09 12:56:37.0	84	
06/21/09 14:43:18.0	85	0.11
06/25/09 21:19:07.5	86	
06/25/09 21:26:58.0	87	
06/25/09 21:38:40.5	88	
06/25/09 21:49:25.5	89	
06/25/09 21:57:35.5	90	
06/25/09 22:03:12.5	91	
06/25/09 22:10:53.5	92	
06/25/09 22:19:15.5	93	
06/25/09 23:31:09.0	94	0.09
06/26/09 02:46:59.0	95	
06/26/09 02:57:07.5	96	
06/26/09 03:03:15.5	97	
06/26/09 03:08:16.5	98	
06/26/09 03:13:01.0	99	
06/26/09 03:16:44.0	100	
06/26/09 03:20:21.5	101	
06/26/09 03:23:37.5	102	
06/26/09 03:26:04.5	103	
06/26/09 03:27:58.0	104	

06/26/09 03:30:11.5	105	
06/26/09 03:32:37.5	106	
06/26/09 03:35:42.5	107	
06/26/09 03:39:54.5	108	
06/26/09 03:44:50.0	109	
06/26/09 03:50:28.5	110	
06/26/09 03:55:15.0	111	
06/26/09 03:58:28.5	112	
06/26/09 04:01:46.5	113	
06/26/09 04:06:01.5	114	
06/26/09 04:11:11.0	115	
06/26/09 04:17:16.0	116	
06/26/09 04:19:14.5	117	
06/26/09 04:20:37.5	118	
06/26/09 04:21:29.5	119	
06/26/09 04:22:38.0	120	
06/26/09 04:26:23.5	121	
06/26/09 04:31:44.0	122	
06/26/09 04:40:37.5	123	
06/26/09 04:49:10.5	124	
06/26/09 04:56:45.0	125	
06/26/09 05:03:31.5	126	
06/26/09 05:15:17.5	127	
06/26/09 05:30:55.0	128	
06/26/09 15:56:07.0	129	
06/26/09 22:22:38.5	130	
06/26/09 22:46:12.5	131	0.37
07/03/09 01:12:31.0	132	
07/03/09 01:13:44.5	133	
07/03/09 01:19:50.5	134	
07/03/09 01:22:49.5	135	
07/03/09 01:27:38.0	136	
07/03/09 01:34:31.0	137	
07/03/09 01:40:49.0	138	
07/03/09 01:46:33.0	139	
07/03/09 02:06:44.5	140	0.09
07/04/09 19:59:50.0	141	
07/04/09 20:00:32.5	142	
07/04/09 20:01:07.5	143	
07/04/09 20:01:56.0	144	
07/04/09 20:03:49.5	145	
07/04/09 20:05:39.5	146	
07/04/09 20:09:05.0	147	
07/04/09 20:13:43.0	148	

07/04/09 20:42:28.0	149	
07/04/09 20:50:09.0	150	
07/04/09 20:50:41.5	151	
07/04/09 20:51:57.0	152	
07/04/09 20:55:44.5	153	
07/04/09 21:00:45.5	154	
07/04/09 21:02:39.5	155	0.15
07/11/09 20:36:22.0	156	0.01
07/20/09 01:58:24.0	157	
07/20/09 01:59:22.0	158	
07/20/09 02:01:09.5	159	
07/20/09 02:01:57.5	160	
07/20/09 02:02:38.5	161	0.05
07/25/09 02:40:14.0	162	0.01
07/26/09 09:04:49.0	163	
07/26/09 09:05:32.0	164	
07/26/09 09:06:10.0	165	
07/26/09 09:06:50.5	166	
07/26/09 09:07:22.0	167	
07/26/09 09:07:48.0	168	
07/26/09 09:08:32.0	169	
07/26/09 09:09:06.0	170	
07/26/09 09:10:10.0	171	
07/26/09 09:24:42.0	172	0.1
08/06/09 08:39:36.5	173	0.01
08/23/09 08:31:13.5	174	
08/23/09 08:51:46.0	175	
08/23/09 20:32:20.5	176	
08/23/09 20:42:32.5	177	0.04
08/24/09 13:54:30.5	178	0.01
08/25/09 19:22:33.0	179	0.01
08/29/09 14:22:43.0	180	
08/29/09 14:23:08.5	181	0.02

Series	Event (Events)
Logger Info	Information specific to the logger
Model	HOBO Event (C) 1996 ONSET Computer Corp
Serial Number	11362
Memory Size (Bytes)	32768
Extra Info	Information used by tech support
Model Number	7
Version Number	4
Deployment	5
Series Info	Information about the data in the series
Points Used	193
First Point	08/29/09 14:21:03.0
Last Point	10/01/09 11:46:50.0
Duration	32 Days 21:25:47.0
Stats	Calculated from the series
Wrap Count	0
Event Sum	193.00
Launch Parameters	Mirrors the launch dialog settings
Description	2009-4qtr - Lila upper raingauge
Wrap	Off
Delay Start	Off
Stealth Mode	Off
Event Name	Events
Event Value	1.00
Lockout After Event	00:00:01.0

Date/Time	Event (Events)	
08/29/09 14:21:03.0	0	
08/29/09 14:23:19.5	1	
08/29/09 14:23:53.0	2	0.02
09/14/09 18:25:29.0	3	
09/14/09 18:36:09.0	4	
09/14/09 18:37:32.0	5	
09/14/09 18:38:23.0	6	
09/14/09 18:39:24.0	7	
09/14/09 18:40:23.0	8	
09/14/09 18:41:25.0	9	
09/14/09 18:42:20.0	10	
09/14/09 18:43:23.0	11	
09/14/09 18:44:52.5	12	
09/14/09 19:26:41.5	13	
09/14/09 19:38:39.0	14	
09/14/09 22:46:58.5	15	
09/14/09 22:56:03.5	16	
09/14/09 23:07:20.5	17	

09/14/09 23:08:37.5	18
09/14/09 23:09:30.0	19
09/14/09 23:10:06.0	20
09/14/09 23:10:28.5	21
09/14/09 23:10:47.5	22
09/14/09 23:11:10.0	23
09/14/09 23:11:25.5	24
09/14/09 23:11:39.5	25
09/14/09 23:11:56.5	26
09/15/09 00:13:00.5	27
09/15/09 00:16:44.5	28
09/15/09 00:19:07.0	29
09/15/09 00:21:50.5	30
09/15/09 00:26:50.5	31
09/15/09 00:46:42.5	32
09/15/09 00:52:43.0	33
09/15/09 00:56:46.5	34
09/15/09 04:21:40.0	35
09/15/09 04:46:22.5	36
09/15/09 05:07:25.0	37
09/15/09 16:23:22.5	38
09/15/09 16:32:42.5	39
09/15/09 16:34:52.0	40
09/15/09 16:35:43.5	41
09/15/09 16:36:19.0	42
09/15/09 16:36:57.0	43
09/15/09 16:37:20.5	44
09/15/09 16:37:36.5	45
09/15/09 16:37:58.5	46
09/15/09 16:38:14.0	47
09/15/09 16:38:31.5	48
09/15/09 16:38:49.5	49
09/15/09 16:39:10.5	50
09/15/09 16:39:26.5	51
09/15/09 16:39:45.5	52
09/15/09 16:40:00.5	53
09/15/09 16:40:20.5	54
09/15/09 16:40:39.5	55
09/15/09 16:41:01.5	56
09/15/09 16:41:18.0	57
09/15/09 16:41:39.5	58
09/15/09 16:41:57.5	59
09/15/09 16:42:20.0	60
09/15/09 16:42:40.0	61

09/15/09 16:43:05.5	62
09/15/09 16:43:34.5	63
09/15/09 16:44:04.5	64
09/15/09 16:44:29.0	65
09/15/09 16:45:02.0	66
09/15/09 16:45:31.5	67
09/15/09 16:46:11.5	68
09/15/09 16:46:50.0	69
09/15/09 16:47:39.5	70
09/15/09 16:48:48.5	71
09/15/09 16:51:16.5	72
09/15/09 16:52:14.5	73
09/15/09 16:53:24.5	74
09/15/09 16:54:20.5	75
09/15/09 16:54:59.5	76
09/15/09 16:55:23.0	77
09/15/09 16:55:51.0	78
09/15/09 16:56:06.5	79
09/15/09 16:56:20.5	80
09/15/09 16:56:31.5	81
09/15/09 16:56:47.5	82
09/15/09 16:57:10.0	83
09/15/09 16:57:34.0	84
09/15/09 16:57:58.0	85
09/15/09 16:58:24.0	86
09/15/09 16:58:51.5	87
09/15/09 16:59:20.5	88
09/15/09 16:59:44.5	89
09/15/09 17:00:21.0	90
09/15/09 17:01:00.5	91
09/15/09 17:01:48.0	92
09/15/09 17:02:29.5	93
09/15/09 17:03:04.5	94
09/15/09 17:03:29.0	95
09/15/09 17:03:54.5	96
09/15/09 17:04:19.0	97
09/15/09 17:04:47.5	98
09/15/09 17:05:16.5	99
09/15/09 17:05:52.5	100
09/15/09 17:06:25.5	101
09/15/09 17:06:59.5	102
09/15/09 17:07:28.5	103
09/15/09 17:07:57.0	104
09/15/09 17:08:19.0	105

09/15/09 17:08:44.5	106
09/15/09 17:09:09.0	107
09/15/09 17:09:35.0	108
09/15/09 17:10:00.0	109
09/15/09 17:10:29.0	110
09/15/09 17:10:57.5	111
09/15/09 17:11:27.5	112
09/15/09 17:11:55.0	113
09/15/09 17:12:27.5	114
09/15/09 17:13:04.0	115
09/15/09 17:13:44.0	116
09/15/09 17:14:18.5	117
09/15/09 17:15:09.0	118
09/15/09 17:15:54.5	119
09/15/09 17:16:42.0	120
09/15/09 17:17:21.5	121
09/15/09 17:18:02.5	122
09/15/09 17:18:38.5	123
09/15/09 17:19:16.5	124
09/15/09 17:19:45.5	125
09/15/09 17:20:23.5	126
09/15/09 17:20:56.5	127
09/15/09 17:21:33.5	128
09/15/09 17:22:01.0	129
09/15/09 17:22:35.0	130
09/15/09 17:23:08.5	131
09/15/09 17:23:46.0	132
09/15/09 17:24:18.0	133
09/15/09 17:24:49.5	134
09/15/09 17:25:28.0	135
09/15/09 17:26:09.5	136
09/15/09 17:26:54.0	137
09/15/09 17:27:31.0	138
09/15/09 17:28:00.0	139
09/15/09 17:28:35.5	140
09/15/09 17:29:08.0	141
09/15/09 17:29:38.0	142
09/15/09 17:30:04.5	143
09/15/09 17:30:45.5	144
09/15/09 17:31:24.0	145
09/15/09 17:31:57.5	146
09/15/09 17:32:37.0	147
09/15/09 17:33:20.0	148
09/15/09 17:33:57.0	149

09/15/09 17:34:39.0	150	
09/15/09 17:35:15.0	151	
09/15/09 17:35:50.0	152	
09/15/09 17:36:24.0	153	
09/15/09 17:36:57.0	154	
09/15/09 17:37:26.0	155	
09/15/09 17:37:54.5	156	
09/15/09 17:38:31.5	157	
09/15/09 17:39:11.0	158	
09/15/09 17:39:57.0	159	
09/15/09 17:40:47.0	160	
09/15/09 17:41:25.0	161	
09/15/09 17:42:05.0	162	
09/15/09 17:42:41.5	163	
09/15/09 17:43:18.5	164	
09/15/09 17:43:59.0	165	
09/15/09 17:44:27.5	166	
09/15/09 17:45:30.0	167	
09/15/09 17:46:15.5	168	
09/15/09 17:46:52.0	169	
09/15/09 17:47:47.5	170	
09/15/09 17:48:44.0	171	
09/15/09 17:49:41.5	172	
09/15/09 17:50:40.5	173	
09/15/09 17:51:55.5	174	
09/15/09 17:53:11.5	175	
09/15/09 17:54:46.5	176	
09/15/09 17:56:46.0	177	
09/15/09 17:58:41.0	178	
09/15/09 18:00:05.0	179	
09/15/09 18:01:48.5	180	
09/15/09 18:03:18.5	181	
09/15/09 18:05:48.0	182	
09/15/09 18:11:34.5	183	
09/15/09 18:18:14.0	184	
09/15/09 18:27:27.0	185	
09/15/09 18:32:40.0	186	1.83
09/20/09 10:11:12.5	187	0.01
09/27/09 22:42:14.5	188	
09/27/09 22:43:53.0	189	0.02
09/30/09 23:41:58.0	190	0.01
10/01/09 11:44:13.0	191	
10/01/09 11:46:15.0	192	
10/01/09 11:46:50.0	193	0.03

Lower Gauge Data

Series	Event (2008)
Logger Info	Information specific to the logger
Model	HOBO Event (C) 1996 ONSET Computer Corp
Serial Number	11370
Memory Size (Bytes)	32768
Extra Info	Information used by tech support
Model Number	7
Version Number	4
Deployment	1
Series Info	Information about the data in the series
Points Used	2
First Point	03/11/08 09:29:21.0
Last Point	05/14/08 10:20:03.0
Duration	64:00:51
Stats	Calculated from the series
Wrap Count	0
Event Sum	0.00
Launch Parameters	Mirrors the launch dialog settings
Description	2008 1st Qtr - Lila Raingauge Lower
Wrap	Off
Delay Start	Off
Stealth Mode	Off
Event Name	2008
Event Value	2.00
Lockout After Event	00:00:01.0

Date/Time	Event (2008)
03/11/08 09:29:21.0	0
05/14/08 10:20:03.0	0

Series	Event (2008)
Logger Info	Information specific to the logger
Model	HOBO Event (C) 1996 ONSET Computer Corp
Serial Number	11370
Memory Size (Bytes)	32768
Extra Info	Information used by tech support
Model Number	7
Version Number	4
Deployment	2
Series Info	Information about the data in the series
Points Used	2
First Point	05/14/08 10:25:08.0
Last Point	05/27/08 11:22:09.5
Duration	13:00:57:58.5
Stats	Calculated from the series
Wrap Count	0
Event Sum	0.00
Launch Parameters	Mirrors the launch dialog settings
Description	2008-2nd Qtr - Lila Raingauge Lower
Wrap	Off
Delay Start	Off
Stealth Mode	Off
Event Name	2008
Event Value	208.00
Lockout After Event	00:00:01.0

Date/Time	Event (2008)
05/14/08 10:25:08.0	0
05/27/08 11:22:09.5	0

Series	Event (2008)
Logger Info	Information specific to the logger
Model	HOBO Event (C) 1996 ONSET Computer Corp
Serial Number	11370
Memory Size (Bytes)	32768
Extra Info	Information used by tech support
Model Number	7
Version Number	4
Deployment	3
Series Info	Information about the data in the series
Points Used	2
First Point	05/27/2008 11:25:19.19
Last Point	08/14/08 12:57:57.0
Duration	79:01:01:32:37.8
Stats	Calculated from the series
Wrap Count	0
Event Sum	0.00
Launch Parameters	Mirrors the launch dialog settings
Description	2008 - 2nd Qtr - Lila RainGauge Lower
Wrap	Off
Delay Start	Off
Stealth Mode	Off
Event Name	2008
Event Value	208.00
Lockout After Event	00:00:01.0

Date/Time	Event (2008)

NO DATA - Equipment Malfunction

Series	Event (2008)
Logger Info	Information specific to the logger
Model	HOBO Event (C) 1996 ONSET Computer Corp
Serial Number	11370
Memory Size (Bytes)	32768
Extra Info	Information used by tech support
Model Number	7
Version Number	4
Deployment	11
Series Info	Information about the data in the series
Points Used	58
First Point	08/14/08 13:07:02.0
Last Point	10/03/08 14:45:25.5
Duration	50 Days 01:38:23.5
Stats	Calculated from the series
Wrap Count	0
Event Sum	11648.00
Launch Parameters	Mirrors the launch dialog settings
Description	2008-3rd Qtr - Lila lower
Wrap	Off
Delay Start	Off
Stealth Mode	Off
Event Name	2008
Event Value	1.00
Lockout After Event	00:00:01.0

Date/Time	Event (2008)	
08/14/08 13:07:02.0	0	
08/31/08 00:18:20.5	1	
08/31/08 01:40:25.5	2	
08/31/08 04:28:08.5	3	
08/31/08 04:45:12.5	4	
08/31/08 06:18:53.5	5	
08/31/08 06:41:07.5	6	
08/31/08 06:53:10.0	7	0.07
09/01/08 09:57:06.5	8	
09/01/08 10:31:22.0	9	
09/01/08 10:34:10.5	10	
09/01/08 10:34:41.0	11	
09/01/08 10:35:17.5	12	
09/01/08 10:35:57.0	13	
09/01/08 10:38:02.5	14	
09/01/08 10:41:17.0	15	0.08
09/09/08 14:49:03.5	16	

09/09/08 14:50:06.0	17	
09/09/08 14:51:20.5	18	
09/09/08 14:51:44.5	19	
09/09/08 14:52:08.0	20	
09/09/08 14:52:29.0	21	
09/09/08 14:53:09.0	22	
09/09/08 14:53:52.0	23	
09/09/08 16:44:32.0	24	
09/09/08 21:44:49.0	25	
09/09/08 21:48:59.0	26	
09/09/08 21:50:45.5	27	
09/09/08 21:51:53.5	28	
09/09/08 21:52:48.5	29	
09/09/08 21:56:11.0	30	
09/09/08 22:00:49.0	31	
09/09/08 22:02:55.0	32	
09/09/08 22:05:10.5	33	
09/09/08 22:08:18.5	34	
09/09/08 22:10:16.5	35	
09/09/08 22:18:58.0	36	0.21
09/10/08 00:19:34.5	37	
09/10/08 15:22:56.0	38	
09/10/08 19:20:04.5	39	
09/10/08 20:54:25.5	40	0.04
09/11/08 13:15:59.0	41	
09/11/08 13:20:46.5	42	
09/11/08 13:25:01.5	43	
09/11/08 13:31:55.5	44	
09/11/08 13:34:52.0	45	
09/11/08 15:42:29.5	46	
09/11/08 17:32:29.5	47	
09/11/08 17:49:42.5	48	
09/11/08 17:54:26.0	49	0.09
09/20/08 16:40:44.0	50	
09/20/08 17:45:58.5	51	
09/20/08 21:24:42.0	52	
09/20/08 21:25:47.5	53	
09/20/08 21:27:27.5	54	0.05
10/03/08 14:41:54.0	55	
10/03/08 14:41:56.5	56	
10/03/08 14:45:25.5	57	0.03

Series	Event (2008)
Logger Info	Information specific to the logger
Model	HOBO Event (C) 1996 ONSET Computer Corp
Serial Number	11370
Memory Size (Bytes)	32768
Extra Info	Information used by tech support
Model Number	7
Version Number	4
Deployment	3
Series Info	Information about the data in the series
Points Used	2
First Point	10/3/2008 14:57
Last Point	12/31/2008 12:43
Duration	89:22:40:39
Stats	Calculated from the series
Wrap Count	0
Event Sum	0.00
Launch Parameters	Mirrors the launch dialog settings
Description	2008-4th Qtr - Lila Raingauge Lower
Wrap	Off
Delay Start	Off
Stealth Mode	Off
Event Name	2008
Event Value	208.00
Lockout After Event	00:00:01.0

Date/Time	Event (2008)
10/3/08 2:57 PM	0
12/31/08 12:43 PM	0

Series	Event (2008)
Logger Info	Information specific to the logger
Model	HOBO Event (C) 1996 ONSET Computer Corp
Serial Number	11370
Memory Size (Bytes)	32768
Extra Info	Information used by tech support
Model Number	7
Version Number	4
Deployment	3
Series Info	Information about the data in the series
Points Used	2
First Point	1/1/2009 12:57:57
Last Point	3/20/2009 12:43:36
Duration	77:23:45:39
Stats	Calculated from the series
Wrap Count	0
Event Sum	0.00
Launch Parameters	Mirrors the launch dialog settings
Description	2009-1st Qtr - Lila Raingauge Lower
Wrap	Off
Delay Start	Off
Stealth Mode	Off
Event Name	2009
Event Value	208.00
Lockout After Event	00:00:01.0

Date/Time	Event (2008)
1/1/2009 12:57:57	0
3/20/2009 12:43:36	0

Series	Event (2009)
Logger Info	Information specific to the logger
Model	HOBO Event (C) 1996 ONSET Computer Corp
Serial Number	11370
Memory Size (Bytes)	32768
Extra Info	Information used by tech support
Model Number	7
Version Number	4
Deployment	13
Series Info	Information about the data in the series
Points Used	299
First Point	03/20/09 14:15:24.24
Last Point	06/02/09 13:20:09.0
Duration	75 Days 23:04:45.0
Stats	Calculated from the series
Wrap Count	0
Event Sum	299.00
Launch Parameters	Mirrors the launch dialog settings
Description	2009 - 2nd Qtr - Lila Lower Raingauge
Wrap	Off
Delay Start	Off
Stealth Mode	Off
Event Name	2009
Event Value	1.00
Lockout After Event	00:00:01.0

Date/Time	Event (2009)	
03/19/09 14:15:24.0	0	
03/26/09 10:19:15.0	1	
03/26/09 10:25:06.0	2	
03/26/09 10:32:17.0	3	
03/26/09 10:38:15.5	4	
03/26/09 10:45:18.0	5	
03/26/09 10:56:46.0	6	
03/26/09 11:09:02.5	7	
03/26/09 11:26:56.5	8	
03/26/09 11:45:16.5	9	
03/26/09 12:00:29.5	10	
04/01/09 11:11:13.5	11	0.11
04/03/09 11:35:03.0	12	0.01
04/03/09 11:44:56.0	13	
04/03/09 12:43:20.0	14	0.02
04/04/09 11:01:22.0	15	
04/04/09 11:09:07.5	16	
04/04/09 12:19:09.5	17	
04/04/09 12:20:26.5	18	
04/04/09 12:21:35.0	19	
04/04/09 12:23:08.5	20	
04/04/09 12:24:26.0	21	
04/04/09 12:26:06.0	22	
04/04/09 12:27:43.0	23	
04/04/09 12:29:48.5	24	
04/04/09 12:31:10.0	25	
04/04/09 12:32:51.0	26	
04/04/09 12:34:27.0	27	
04/04/09 12:36:22.0	28	
04/04/09 12:37:57.0	29	
04/04/09 12:40:22.0	30	
04/04/09 12:42:21.0	31	
04/04/09 12:45:42.5	32	
04/04/09 12:48:35.5	33	
04/04/09 12:51:53.5	34	
04/04/09 12:54:24.0	35	
04/04/09 12:59:43.5	36	
04/04/09 13:03:37.0	37	
04/04/09 13:07:08.0	38	
04/04/09 13:11:04.0	39	

04/04/09 13:15:29.5	40	
04/04/09 13:18:12.0	41	
04/04/09 13:21:02.0	42	
04/04/09 13:22:59.0	43	
04/04/09 13:25:57.5	44	
04/04/09 13:29:11.5	45	0.31
04/11/09 08:46:32.5	46	
04/11/09 08:48:19.5	47	
04/11/09 08:50:04.0	48	
04/11/09 08:51:06.5	49	
04/11/09 08:56:07.0	50	
04/11/09 08:58:06.0	51	
04/11/09 09:00:56.0	52	
04/11/09 09:03:12.0	53	
04/11/09 09:07:01.0	54	
04/11/09 09:11:47.5	55	
04/11/09 09:15:42.5	56	
04/11/09 09:18:48.5	57	
04/11/09 09:28:03.0	58	
04/11/09 09:35:53.5	59	
04/11/09 09:42:47.5	60	
04/11/09 09:47:20.0	61	
04/11/09 09:57:05.0	62	
04/11/09 10:06:35.0	63	
04/11/09 10:17:58.0	64	
04/11/09 10:26:30.0	65	
04/11/09 10:40:30.0	66	0.21
04/12/09 02:52:32.5	67	
04/12/09 04:16:30.5	68	0.02
04/16/09 09:59:50.5	69	
04/16/09 10:02:07.5	70	
04/16/09 10:05:17.5	71	
04/16/09 10:09:16.0	72	
04/16/09 10:12:06.5	73	
04/16/09 10:16:24.5	74	
04/16/09 10:19:09.5	75	
04/16/09 10:21:52.0	76	
04/16/09 10:24:29.5	77	
04/16/09 10:27:54.0	78	
04/16/09 10:30:06.0	79	
04/16/09 10:32:29.5	80	
04/16/09 10:35:12.5	81	
04/16/09 10:38:02.0	82	
04/16/09 10:43:35.0	83	
04/16/09 10:49:13.0	84	0.16
04/18/09 15:44:48.0	85	
04/18/09 15:53:18.0	86	0.02
04/25/09 16:58:44.0	87	
04/25/09 17:01:58.0	88	
04/25/09 17:05:06.0	89	
04/25/09 17:07:37.0	90	
04/25/09 17:09:58.0	91	
04/25/09 17:12:16.0	92	
04/25/09 17:16:55.0	93	
04/25/09 17:19:09.5	94	
04/25/09 17:20:57.0	95	
04/25/09 17:28:22.0	96	
04/25/09 17:33:08.0	97	
04/25/09 17:48:45.5	98	
04/25/09 17:51:28.5	99	
04/25/09 17:55:11.0	100	
04/25/09 20:06:05.5	101	
04/25/09 20:10:50.5	102	
04/25/09 20:22:04.5	103	
04/25/09 20:26:46.5	104	
04/25/09 20:29:04.5	105	
04/25/09 23:38:44.5	106	0.2

04/26/09 09:04:32.5	107	
04/26/09 09:08:42.0	108	
04/26/09 09:11:59.5	109	
04/26/09 09:16:19.0	110	
04/26/09 09:19:29.5	111	
04/26/09 09:23:45.5	112	
04/26/09 09:26:55.0	113	
04/26/09 09:30:45.0	114	
04/26/09 09:36:03.5	115	
04/26/09 09:41:04.0	116	
04/26/09 09:46:44.5	117	
04/26/09 09:50:04.5	118	
04/26/09 09:53:21.0	119	
04/26/09 09:55:49.5	120	
04/26/09 09:57:37.5	121	
04/26/09 10:00:07.5	122	
04/26/09 10:02:16.0	123	
04/26/09 10:05:11.5	124	
04/26/09 10:08:15.0	125	
04/26/09 10:11:46.0	126	
04/26/09 10:14:05.5	127	
04/26/09 10:17:05.5	128	
04/26/09 10:20:04.5	129	
04/26/09 10:22:53.5	130	
04/26/09 10:25:12.5	131	
04/26/09 10:28:07.0	132	
04/26/09 10:30:22.0	133	
04/26/09 10:33:57.5	134	
04/26/09 10:36:28.0	135	
04/26/09 15:14:26.5	136	
04/26/09 17:59:47.0	137	
04/26/09 18:12:47.5	138	0.32
05/02/09 05:21:28.5	139	
05/02/09 05:37:31.0	140	
05/02/09 05:55:52.5	141	
05/02/09 06:15:18.0	142	
05/02/09 06:33:42.0	143	
05/02/09 08:36:03.0	144	
05/02/09 09:11:29.0	145	
05/02/09 09:17:35.5	146	
05/02/09 09:20:48.5	147	
05/02/09 09:24:05.5	148	
05/02/09 09:26:59.5	149	
05/02/09 09:29:48.0	150	
05/02/09 09:31:40.5	151	
05/02/09 09:34:21.5	152	
05/02/09 09:36:55.0	153	
05/02/09 09:39:42.0	154	
05/02/09 09:41:59.5	155	
05/02/09 09:44:13.0	156	
05/02/09 09:46:11.5	157	
05/02/09 09:48:38.0	158	
05/02/09 09:51:25.5	159	
05/02/09 09:55:16.0	160	
05/02/09 09:58:57.5	161	
05/02/09 10:03:43.0	162	
05/02/09 10:07:06.0	163	
05/02/09 10:10:42.5	164	
05/02/09 10:14:00.0	165	
05/02/09 10:17:02.0	166	
05/02/09 10:20:17.5	167	
05/02/09 10:23:20.0	168	
05/02/09 10:26:28.0	169	
05/02/09 10:45:56.0	170	
05/02/09 11:38:42.5	171	
05/02/09 11:46:32.0	172	
05/02/09 11:48:58.5	173	

05/02/09 11:51:33.5	174	
05/02/09 11:52:53.5	175	
05/02/09 11:55:52.0	176	
05/02/09 14:22:30.5	177	
05/22/09 14:08:14.0	178	
05/22/09 14:09:13.0	179	
05/22/09 14:11:12.5	180	
05/22/09 14:14:34.0	181	
05/22/09 14:16:52.0	182	
05/22/09 14:18:56.5	183	
05/22/09 14:20:24.0	184	
05/22/09 14:22:02.0	185	
05/22/09 14:25:23.0	186	
05/22/09 18:58:00.0	187	
05/22/09 18:58:52.0	188	
05/22/09 18:59:19.5	189	
05/22/09 18:59:52.5	190	
05/22/09 19:00:22.0	191	
05/22/09 19:01:09.0	192	
05/22/09 19:01:35.5	193	
05/22/09 19:02:43.0	194	
05/22/09 19:03:59.5	195	
05/22/09 19:05:38.0	196	
05/22/09 19:11:24.0	197	
05/22/09 19:33:10.0	198	
05/22/09 20:15:27.0	199	
05/22/09 20:28:13.0	200	
05/22/09 20:35:38.5	201	
05/22/09 20:45:32.5	202	
05/22/09 21:03:45.0	203	
05/22/09 23:10:45.5	204	0.66
05/23/09 03:57:21.5	205	
05/23/09 04:33:03.0	206	
05/23/09 08:07:14.5	207	
05/23/09 08:23:15.5	208	
05/23/09 08:40:43.5	209	
05/23/09 09:01:26.5	210	
05/23/09 09:36:43.5	211	
05/23/09 10:15:02.0	212	
05/23/09 10:36:26.5	213	
05/23/09 11:21:58.5	214	
05/23/09 11:26:20.0	215	
05/23/09 11:27:51.0	216	
05/23/09 11:32:35.5	217	
05/23/09 12:04:53.0	218	
05/23/09 12:20:13.0	219	
05/23/09 15:14:04.5	220	
05/23/09 15:30:36.5	221	
05/23/09 15:55:52.5	222	
05/23/09 16:12:51.0	223	
05/23/09 23:32:39.0	224	0.2
05/24/09 00:07:23.5	225	
05/24/09 01:23:58.0	226	
05/24/09 01:35:51.5	227	
05/24/09 01:54:20.0	228	
05/24/09 02:01:13.0	229	
05/24/09 02:11:36.5	230	
05/24/09 02:16:21.0	231	
05/24/09 02:22:13.0	232	
05/24/09 02:26:03.5	233	
05/24/09 02:41:16.0	234	
05/24/09 02:43:40.5	235	
05/24/09 02:46:55.5	236	
05/24/09 02:51:47.0	237	
05/24/09 03:06:33.0	238	
05/24/09 03:12:11.5	239	
05/24/09 03:33:42.5	240	

05/24/09 03:34:49.5	241	
05/24/09 03:37:25.0	242	
05/24/09 03:39:24.5	243	
05/24/09 04:03:36.5	244	
05/24/09 04:06:16.5	245	
05/24/09 04:09:19.5	246	
05/24/09 17:28:03.5	247	
05/24/09 17:37:56.5	248	
05/24/09 17:39:16.0	249	
05/24/09 17:39:54.5	250	
05/24/09 17:40:22.5	251	
05/24/09 17:40:49.0	252	
05/24/09 17:41:06.5	253	
05/24/09 17:41:32.5	254	
05/24/09 17:41:56.0	255	
05/24/09 17:42:18.5	256	
05/24/09 17:42:32.5	257	
05/24/09 17:42:47.5	258	
05/24/09 17:43:00.0	259	
05/24/09 17:43:12.5	260	
05/24/09 17:43:21.0	261	
05/24/09 17:43:31.5	262	
05/24/09 17:43:40.0	263	
05/24/09 17:43:51.0	264	
05/24/09 17:44:00.5	265	
05/24/09 17:44:10.5	266	
05/24/09 17:44:19.0	267	
05/24/09 17:44:30.5	268	
05/24/09 17:44:40.5	269	
05/24/09 17:44:52.5	270	
05/24/09 17:45:06.0	271	
05/24/09 17:45:47.0	272	
05/24/09 17:46:48.0	273	
05/24/09 17:47:40.5	274	
05/24/09 17:48:25.0	275	
05/24/09 17:51:22.5	276	
05/24/09 17:56:05.0	277	
05/24/09 18:00:59.5	278	
05/24/09 18:03:33.0	279	
05/24/09 18:05:18.5	280	
05/24/09 18:07:04.0	281	
05/24/09 18:08:25.5	282	
05/24/09 18:09:38.0	283	
05/24/09 18:17:53.0	284	
05/24/09 18:21:32.5	285	
05/24/09 18:28:39.0	286	
05/24/09 18:34:05.0	287	
05/24/09 18:38:34.5	288	
05/24/09 18:42:20.0	289	0.65
05/27/09 17:48:41.5	290	
05/27/09 17:49:24.5	291	0.02
05/28/09 17:01:07.5	292	
05/28/09 17:03:15.0	293	
05/28/09 17:04:53.0	294	
05/28/09 17:06:16.0	295	
05/28/09 17:09:53.0	296	0.05
05/29/09 17:48:35.0	297	0.01
06/01/09 16:52:29.0	298	0.01
06/02/09 06:14:14.5	299	0.01

Series	Event (2009)
Logger Info	Information specific to the logger
Model	HOBO Event (C) 1996 ONSET Computer Corp
Serial Number	11370
Memory Size (Bytes)	32768
Extra Info	Information used by tech support
Model Number	7
Version Number	4
Deployment	14
Series Info	Information about the data in the series
Points Used	168
First Point	06/02/09 13:16:45.0
Last Point	08/29/09 15:38:37.0
Duration	88 Days 02:21:52.0
Stats	Calculated from the series
Wrap Count	0
Event Sum	168.00
Launch Parameters	Mirrors the launch dialog settings
Description	2009 - 3rd Qtr - Lila Lower Raingauge
Wrap	Off
Delay Start	Off
Stealth Mode	Off
Event Name	2009
Event Value	1.00
Lockout After Event	00:00:01.0

Date/Time	Event (2009)	
06/02/09 13:16:45.0	0	
06/02/09 14:25:39.0	1	
06/02/09 16:20:52.0	2	0.02
06/10/09 09:00:47.0	3	
06/10/09 09:17:33.0	4	
06/10/09 09:21:10.5	5	
06/10/09 19:39:01.5	6	
06/10/09 19:42:42.0	7	
06/10/09 20:02:58.0	8	
06/10/09 20:09:53.5	9	0.07
06/11/09 14:33:30.5	10	
06/11/09 14:36:58.0	11	0.02
06/17/09 01:39:59.5	12	
06/17/09 01:50:43.0	13	
06/17/09 02:08:35.0	14	
06/17/09 02:19:09.0	15	
06/17/09 14:27:18.0	16	

06/17/09 14:57:26.0	17	
06/17/09 15:05:34.5	18	
06/17/09 15:23:06.0	19	
06/17/09 17:42:46.5	20	0.09
06/18/09 15:26:22.5	21	
06/18/09 15:27:25.0	22	
06/18/09 15:27:48.0	23	
06/18/09 15:28:14.5	24	
06/18/09 15:28:31.5	25	
06/18/09 15:28:54.5	26	
06/18/09 15:29:45.0	27	0.07
06/20/09 15:12:31.0	28	
06/20/09 19:52:32.0	29	
06/20/09 19:55:12.0	30	
06/20/09 19:57:15.0	31	
06/20/09 19:59:54.5	32	
06/20/09 20:04:24.0	33	
06/20/09 20:08:08.5	34	
06/20/09 20:09:01.5	35	
06/20/09 20:10:23.0	36	
06/20/09 20:11:16.5	37	
06/20/09 20:12:01.5	38	
06/20/09 20:12:26.5	39	
06/20/09 20:13:10.0	40	
06/20/09 20:17:18.5	41	
06/20/09 20:35:15.0	42	0.15
06/21/09 05:48:21.0	43	
06/21/09 05:52:09.5	44	
06/21/09 12:36:09.0	45	
06/21/09 12:45:16.0	46	
06/21/09 12:49:10.5	47	
06/21/09 12:50:29.5	48	
06/21/09 12:51:49.5	49	
06/21/09 12:52:52.0	50	
06/21/09 12:55:06.5	51	
06/21/09 12:55:52.0	52	
06/21/09 12:56:35.5	53	
06/21/09 12:57:32.0	54	
06/21/09 12:57:40.0	55	
06/21/09 12:57:52.0	56	
06/21/09 12:58:04.0	57	
06/21/09 12:58:21.0	58	
06/21/09 12:58:35.0	59	
06/21/09 12:59:00.0	60	

06/21/09 12:59:35.5	61	
06/21/09 13:01:18.5	62	0.2
06/25/09 19:44:36.5	63	
06/25/09 19:45:30.5	64	
06/25/09 19:46:06.0	65	
06/25/09 19:46:53.0	66	
06/25/09 19:47:24.0	67	
06/25/09 19:48:32.0	68	
06/25/09 19:50:42.0	69	
06/25/09 19:54:53.5	70	
06/25/09 19:58:12.0	71	
06/25/09 21:33:51.5	72	
06/25/09 21:53:26.5	73	
06/25/09 22:05:08.0	74	
06/25/09 22:15:50.0	75	0.13
06/26/09 02:57:46.0	76	
06/26/09 03:08:28.5	77	
06/26/09 03:13:35.5	78	
06/26/09 03:19:25.5	79	
06/26/09 03:24:08.5	80	
06/26/09 03:27:23.5	81	
06/26/09 03:29:49.5	82	
06/26/09 03:31:42.5	83	
06/26/09 03:34:09.5	84	
06/26/09 03:37:58.5	85	
06/26/09 03:44:11.5	86	
06/26/09 03:49:06.5	87	
06/26/09 03:55:09.5	88	
06/26/09 03:58:53.5	89	
06/26/09 04:03:10.0	90	
06/26/09 04:05:41.5	91	
06/26/09 04:09:33.5	92	
06/26/09 04:14:21.5	93	
06/26/09 04:19:26.0	94	
06/26/09 04:22:02.0	95	
06/26/09 04:24:02.5	96	
06/26/09 04:28:47.5	97	
06/26/09 04:34:40.0	98	
06/26/09 04:43:29.5	99	
06/26/09 04:51:55.0	100	
06/26/09 04:59:51.0	101	
06/26/09 05:08:35.5	102	
06/26/09 05:25:26.0	103	
06/26/09 16:17:45.5	104	0.29

07/03/09 01:05:37.5	105	
07/03/09 01:06:35.0	106	
07/03/09 01:07:23.5	107	
07/03/09 01:08:21.0	108	
07/03/09 01:09:14.0	109	
07/03/09 01:10:07.0	110	
07/03/09 01:11:20.0	111	
07/03/09 01:13:22.0	112	
07/03/09 01:16:28.0	113	
07/03/09 01:20:13.0	114	
07/03/09 01:30:38.0	115	
07/03/09 01:45:37.0	116	
07/03/09 01:48:14.0	117	
07/03/09 02:26:26.0	118	0.14
07/04/09 19:59:36.0	119	
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07/04/09 20:02:15.0	121	
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07/04/09 20:19:34.5	126	
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07/04/09 20:52:00.0	132	
07/04/09 20:54:56.5	133	
07/04/09 20:59:59.5	134	0.16
07/11/09 20:38:54.5	135	0.01
07/20/09 01:56:24.0	136	0.01
08/05/09 17:13:11.0	137	
08/05/09 17:22:26.5	138	0.02
08/06/09 07:12:08.0	139	
08/06/09 07:13:13.5	140	
08/06/09 07:16:29.5	141	
08/06/09 08:15:40.0	142	
08/06/09 08:21:39.0	143	
08/06/09 09:04:45.0	144	0.08
08/23/09 08:37:23.0	145	
08/23/09 20:30:36.5	146	
08/23/09 20:30:54.0	147	
08/23/09 20:31:15.5	148	

08/23/09 20:31:27.5	149	
08/23/09 20:31:50.5	150	
08/23/09 20:32:02.5	151	
08/23/09 20:32:15.5	152	
08/23/09 20:32:23.0	153	
08/23/09 20:32:38.5	154	
08/23/09 20:32:55.5	155	
08/23/09 20:33:17.0	156	
08/23/09 20:33:38.5	157	
08/23/09 20:34:11.5	158	
08/23/09 20:34:45.0	159	
08/23/09 20:36:02.0	160	
08/23/09 20:38:26.0	161	
08/23/09 20:42:52.0	162	0.18
08/24/09 13:54:03.0	163	
08/24/09 13:56:33.5	164	
08/24/09 13:58:05.5	165	
08/24/09 14:13:01.5	166	
08/24/09 14:26:49.5	167	0.05
08/29/09 15:38:37.0	168	0.01

Series	Event (2009)
Logger Info	Information specific to the logger
Model	HOBO Event (C) 1996 ONSET Computer Corp
Serial Number	11370
Memory Size (Bytes)	32768
Extra Info	Information used by tech support
Model Number	7
Version Number	4
Deployment	15
Series Info	Information about the data in the series
Points Used	143
First Point	08/29/09 15:34:13.0
Last Point	10/01/09 10:16:39.5
Duration	32 Days 18:42:26.5
Stats	Calculated from the series
Wrap Count	0
Event Sum	142.00
Launch Parameters	Mirrors the launch dialog settings
Description	2009-4th Qtr - Lila lower raingauge
Wrap	Off
Delay Start	Off
Stealth Mode	Off
Event Name	2009
Event Value	1.00
Lockout After Event	00:00:01.0

Date/Time	Event (2009)	
08/29/09 15:34:13.0	0	
08/29/09 15:35:47.0	1	0.02
09/14/09 18:43:36.0	2	
09/14/09 18:44:59.5	3	
09/14/09 18:52:20.0	4	
09/14/09 18:53:50.5	5	
09/14/09 22:42:44.5	6	
09/14/09 22:45:13.5	7	
09/14/09 23:03:10.5	8	
09/14/09 23:04:19.0	9	
09/14/09 23:09:30.5	10	
09/14/09 23:10:31.5	11	
09/14/09 23:11:13.0	12	
09/14/09 23:11:28.0	13	
09/14/09 23:11:55.5	14	
09/14/09 23:12:09.0	15	
09/14/09 23:12:31.5	16	
09/14/09 23:12:43.5	17	

09/14/09 23:13:06.0	18	
09/14/09 23:13:18.5	19	
09/14/09 23:13:40.0	20	
09/14/09 23:14:00.5	21	
09/14/09 23:16:34.5	22	
09/14/09 23:18:28.0	23	
09/14/09 23:28:05.0	24	
09/14/09 23:30:54.0	25	
09/14/09 23:35:48.5	26	
09/14/09 23:38:47.0	27	
09/14/09 23:49:02.5	28	0.26
09/15/09 00:21:09.0	29	
09/15/09 00:36:46.5	30	
09/15/09 00:57:25.5	31	
09/15/09 16:41:47.5	32	
09/15/09 16:43:37.0	33	
09/15/09 16:50:54.5	34	
09/15/09 16:51:29.5	35	
09/15/09 16:52:22.0	36	
09/15/09 16:52:56.5	37	
09/15/09 16:53:58.5	38	
09/15/09 16:54:35.5	39	
09/15/09 16:56:12.5	40	
09/15/09 16:57:21.5	41	
09/15/09 16:59:25.0	42	
09/15/09 17:00:12.0	43	
09/15/09 17:00:48.0	44	
09/15/09 17:01:06.5	45	
09/15/09 17:01:28.0	46	
09/15/09 17:01:45.0	47	
09/15/09 17:02:10.5	48	
09/15/09 17:02:27.0	49	
09/15/09 17:02:51.5	50	
09/15/09 17:03:05.0	51	
09/15/09 17:03:23.0	52	
09/15/09 17:03:35.0	53	
09/15/09 17:03:57.5	54	
09/15/09 17:04:11.5	55	
09/15/09 17:04:37.5	56	
09/15/09 17:04:54.0	57	
09/15/09 17:05:18.0	58	
09/15/09 17:05:41.5	59	
09/15/09 17:06:09.5	60	
09/15/09 17:06:29.5	61	

09/15/09 17:07:05.5	62
09/15/09 17:07:26.0	63
09/15/09 17:07:53.0	64
09/15/09 17:08:10.5	65
09/15/09 17:08:26.0	66
09/15/09 17:08:41.5	67
09/15/09 17:08:54.0	68
09/15/09 17:09:01.0	69
09/15/09 17:09:09.0	70
09/15/09 17:09:15.0	71
09/15/09 17:09:24.0	72
09/15/09 17:09:30.0	73
09/15/09 17:09:39.0	74
09/15/09 17:09:46.0	75
09/15/09 17:09:58.5	76
09/15/09 17:10:07.0	77
09/15/09 17:10:20.0	78
09/15/09 17:10:32.0	79
09/15/09 17:10:44.5	80
09/15/09 17:10:52.5	81
09/15/09 17:11:04.0	82
09/15/09 17:11:13.0	83
09/15/09 17:11:28.0	84
09/15/09 17:11:40.5	85
09/15/09 17:11:58.5	86
09/15/09 17:12:10.0	87
09/15/09 17:12:30.5	88
09/15/09 17:12:47.0	89
09/15/09 17:13:15.0	90
09/15/09 17:13:34.0	91
09/15/09 17:14:04.5	92
09/15/09 17:14:24.5	93
09/15/09 17:14:43.0	94
09/15/09 17:14:55.0	95
09/15/09 17:15:13.0	96
09/15/09 17:15:26.0	97
09/15/09 17:15:48.0	98
09/15/09 17:16:01.5	99
09/15/09 17:16:19.5	100
09/15/09 17:16:33.0	101
09/15/09 17:16:52.5	102
09/15/09 17:17:08.0	103
09/15/09 17:17:32.5	104
09/15/09 17:17:53.0	105

09/15/09 17:18:12.5	106	
09/15/09 17:18:29.5	107	
09/15/09 17:18:52.0	108	
09/15/09 17:19:15.0	109	
09/15/09 17:19:41.5	110	
09/15/09 17:20:01.0	111	
09/15/09 17:20:29.0	112	
09/15/09 17:20:56.5	113	
09/15/09 17:21:45.5	114	
09/15/09 17:22:18.5	115	
09/15/09 17:23:13.5	116	
09/15/09 17:23:56.5	117	
09/15/09 17:25:02.5	118	
09/15/09 17:25:55.0	119	
09/15/09 17:27:11.5	120	
09/15/09 17:27:51.5	121	
09/15/09 17:28:55.0	122	
09/15/09 17:29:55.5	123	
09/15/09 17:31:11.0	124	
09/15/09 17:32:27.5	125	
09/15/09 17:34:10.0	126	
09/15/09 17:36:22.0	127	
09/15/09 17:39:14.0	128	
09/15/09 17:41:52.5	129	
09/15/09 17:43:41.5	130	
09/15/09 17:46:05.0	131	
09/15/09 17:50:43.0	132	
09/15/09 17:53:41.5	133	
09/15/09 17:57:34.5	134	
09/15/09 18:01:49.5	135	
09/15/09 18:08:09.0	136	
09/15/09 18:11:42.5	137	
09/15/09 18:17:18.5	138	
09/15/09 18:20:16.5	139	
09/15/09 18:30:00.0	140	
09/15/09 18:33:50.5	141	1.13
10/01/09 10:16:39.5	142	0.01

ATTACHMENT B

Crest Gauge and Siphon Data

2008 Crest Gauges
Little Park Area

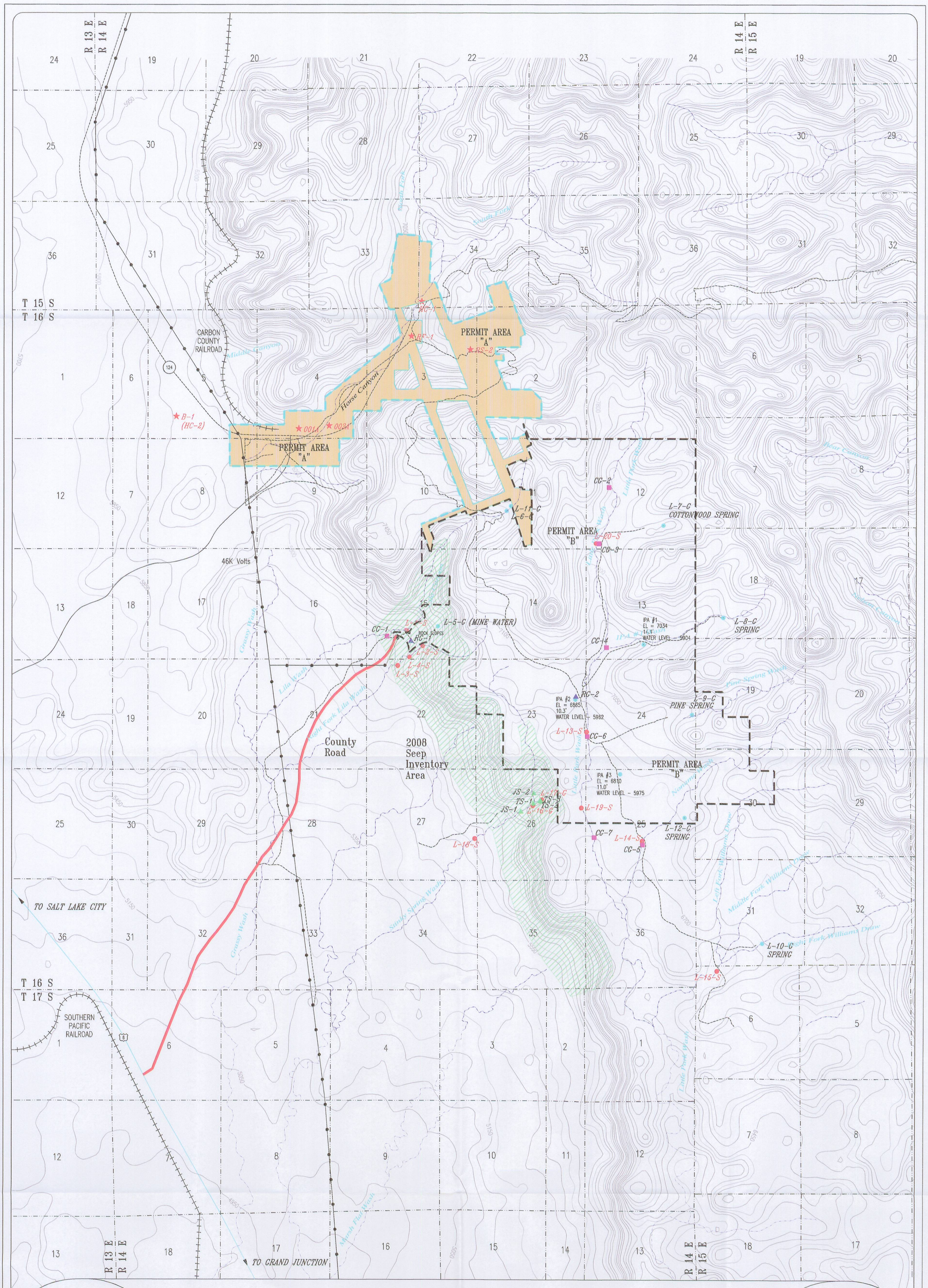
Intermittent Washes

Month	Date	CG-1	CG-2	CG-3	CG-4	CG-5	CG-6	CG-7	Initial of Observer	Entered on Data Base
January										
February										
March										
April										
May										
June										
July										
August	NF	NF	NF	NF	NF	NF	NF	NF	RJM/TS	
September										
October	NF	.5"	NF	NF	1.75"	19"	.75"	Washed Out Sampled	RJM/DD	
November										
December										

2009 Crest Gauges
Little Park Area

Intermittent Washes

Month	Date	CG-1	CG-2	CG-3	CG-4	CG-5	CG-6	CG-7	Initial of Observer	Entered on Data Base
January										
February										
March	3/19/09	NF	NA	NA	NA	NA	NA	NA	RJM	
April										
May										
June	6/2/09 6/18/09	5" deep 8'Wide no sample	NF	NF	NF	NF	NF	NF	RJM	
July										
August										
September	9/3/09 9/15/09 9/21/09	NF	NF	4" deep 10' wide no sample	NF	NF	6" deep 15' wide no sample	6" deep 20' wide Sampled	RJM	
October										
November										
December										



LEGEND:

PERMIT AREA "A" (HORSE CANYON):
PERMIT AREA "B" (LILA CANYON):

WATER MONITORING:

HORSE CANYON MONITORING:
LILA CANYON SURFACE MONITORING:
LILA CANYON GROUNDWATER MONITORING:
LILA CANYON CREST GAUGE MONITORING:
LILA CANYON SEEP LOCATIONS:
LILA CANYON RAIN GAUGE LOCATIONS:

REVISION DATE:

DATE:	BY:	DATE:	BY:
July 1999	WJ		
November 1999	BHE	August 2006	TJS
March 2000	BHE		
August 2000	BJ		
December 2000	BJ		
July 2001	BJ		
September 2002	RJM		
November 2005	TJS		

N

1000' 0' 2000' 4000'

UTAH REGISTERED PROFESSIONAL ENGINEER #152606 Joy Marshall

LILA CANYON MINE

WATER MONITORING LOCATIONS

DATE:	DESIGNED BY:
MAY 1998	BLACKHAWK ENG.
SCALE: AS SHOWN	PLATE #: 1

TOPSOIL MOVEMENT & CONSTRUCTION RECORD

PHASE I

UTAHAMERICAN ENERGY

LILA CANYON MINE

December 2008-February 2009

PROFESSIONAL ENGINEER
No. 22-150287-2203
J. THOMAS PALUSO
9/17/09
STATE OF UTAH

Prepared by

J. T. Paluso, P. E.

EIS ENVIRONMENTAL & ENGINEERING CONSULTING
31 North Main, Helper, Utah 84526

Scope of Work

EIS Environmental & Engineering Consulting (EIS) was hired by UtahAmerican Energy, Inc (UEI) to monitor the removal of topsoil from the Lila Canyon Mine for Phase I construction activities.

Phase I consisted of the following activities:

- Construct stormwater detention ponds. These ponds are needed to contain all runoff coming from disturbed areas.
- Construct portal access road. Due to the length of time required to construct the underground rock slopes, it was necessary to construct the portal access road during Phase I of the construction activities.
- Remove topsoil from the west portion of the coal stockpile area. This area was needed to provide storage space for material generated during the construction of the underground rock slopes.
- Remove topsoil from the warehouse pad area. This area was also needed to provide storage space for material generated from the rock slope construction work.
- Construct employee parking and temporary bathhouse area. This area was needed to provide parking space and bathhouse facilities for the crews developing the rock slopes.

During Phase I activities the follow amounts of topsoil were generated from the various locations:

LOCATION	LOADS	VOLUME (Yd^3)
Employee Parking Lot	378	12,110
Portal Road	238	7,622
Storm Water Detention Pond	154	4,943
Small Detention Pond	61	1,940
Coal Stockpile	269	8,601
Warehouse Pad	137	4,385
Topsoil Area	Push with Dozer	646
TOTAL		**40,247 Yd^3**

LILA CANYON MINE
TOPSOIL & CONSTRUCTION ACTIVITY RECORD

December 24, 2008 (Mel Coonrod & Matt Serfustini)

The following activities were observed during this visit:

1. Fill material was being removed from the stormwater detention pond. Some topsoil still remains to be removed from the pond area.
2. Work on portal access road was proceeding.
3. Topsoil was being removed from employee parking area.
4. Topsoil had been removed from west end of coal pile area.

PHOTOGRAPHS

LOOKING SOUTH TOWARDS TOPSOIL STORAGE AREA

MATERIAL REMOVED FROM TOPSOIL STORAGE SITE

PORTAL ACCESS ROAD TOPSOIL NORTH OF COAL STOCKPILE, PHOTO TAKEN LOOKING EAST

SOIL PROFILE ON PORTAL ACCESS ROAD LOOKING NORTH, TAKEN ADJACENT TO PRIOR PHOTOGRAPH

TOPSOIL REMOVAL SOUTH END OF EMPLOYEE PARKING LOT LOOKING SOUTH EAST

SOUTH OF LOADOUT STATION LOOKING NORTH

SOUTH OF LOADOUT STATION LOOKING SOUTH

SOIL PROFILE AT THE SAME LOCATION AS THE TWO PREVIOUS PHOTOGRAPHS

BOULDER REMOVAL SOUTH OF LOADOUT STATION LOOKING NORTH

EMPLOYEE PARKING AREA LOOKING SOUTH

December 30, 2008(Tom Paluso)

The following activities were observed during my site visit:

1. Fill material was being removed from portal access road. Contractor was working on side slopes on the portal access road.
2. Topsoil was being removed from employee parking area and delivered to the topsoil storage area.
3. Contractor was breaking large rocks on west end of coal storage pile. The large rocks were being reduced to make it easier to obtain necessary compaction with fill material being deposited in this area.

PHOTOGRAPHS

TOPSOIL REMOVAL FROM EMPLOYEE PARKING AREA

LOOKING SOUTHWEST OVER PROJECT AREA

January 7, 2009 (Tom Paluso)

The following activities were observed during site visit:

1. Contractor was transporting topsoil from office area to topsoil site.
2. Portal access road grade was being lowered northeast of employee's parking area.
3. Hydraulic hoes were working on portal area.

The stormwater detention pond still has approximately 15 percent of the topsoil to be removed. This material is located in the southeast corner of the pond. According to Shane Campbell this material was intentionally left to provide work during bad weather conditions. Shane also mentioned that topsoil removal at the warehouse site should probably start on January 15 or 16.

PHOTOGRAPHS

TOPSOIL REMOVAL FROM OFFICE AREA

BOULDERS BEING SEPARATED FROM TOPSOIL MATERIAL

LOWER PORTAL ACCESS ROAD GRADE

FILL MATERIAL BEING REMOVED FROM PORTAL ACCESS ROAD

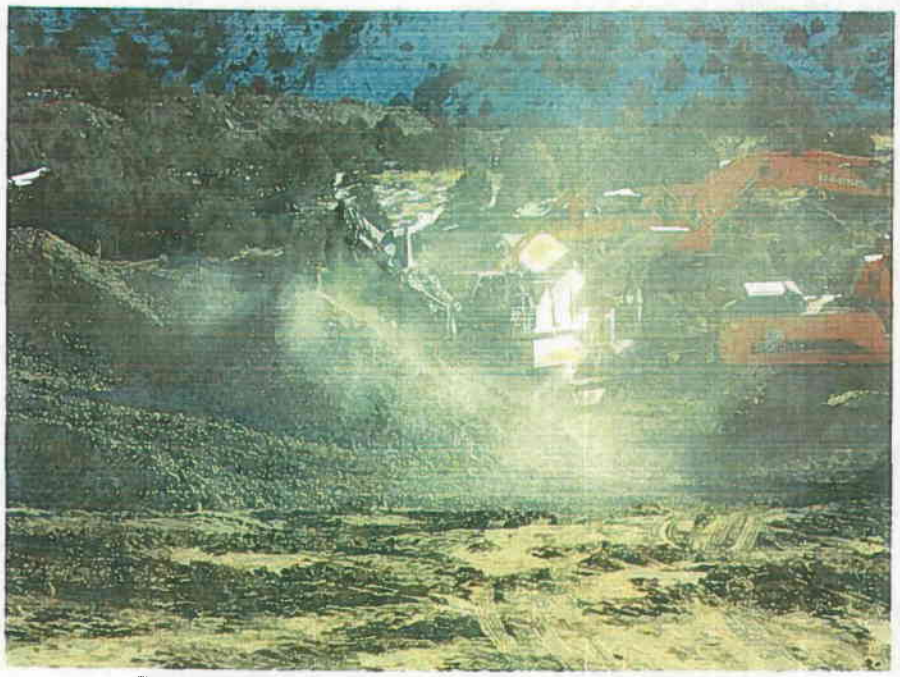
HYDRAULIC BACKHOES WORKING ON PORTAL AREA

January 15, 2009 (Tom Paluso)

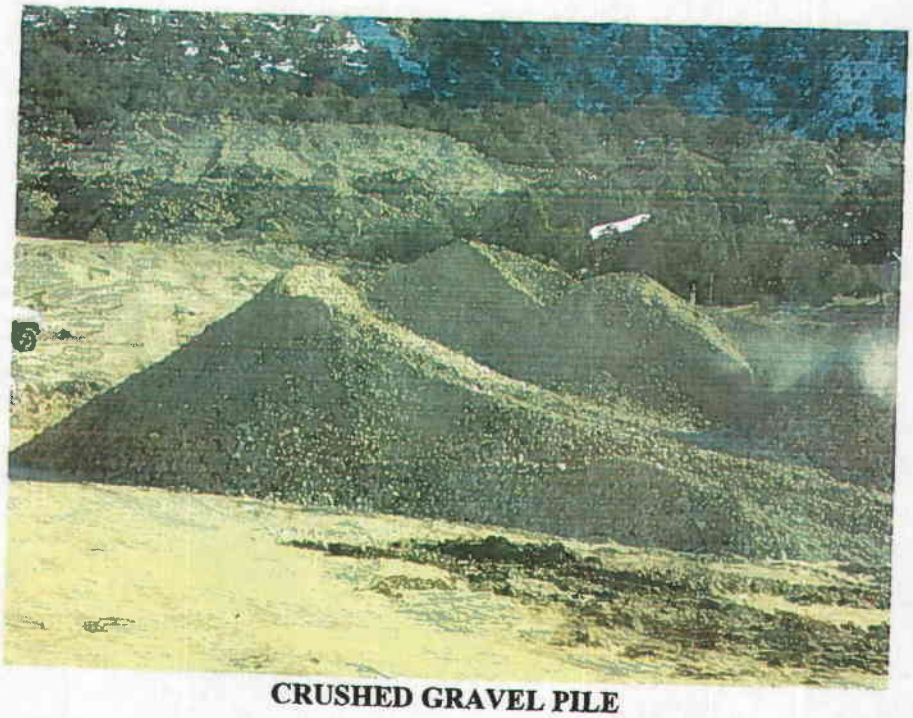
The following activities were observed during site visit:

1. Large boulders are being crushed to make gravel for this project.
2. Boulders are being stockpiled at future coal stockpile site. These boulders will be crushed into gravel.
3. Work on the portal area is still in progress.

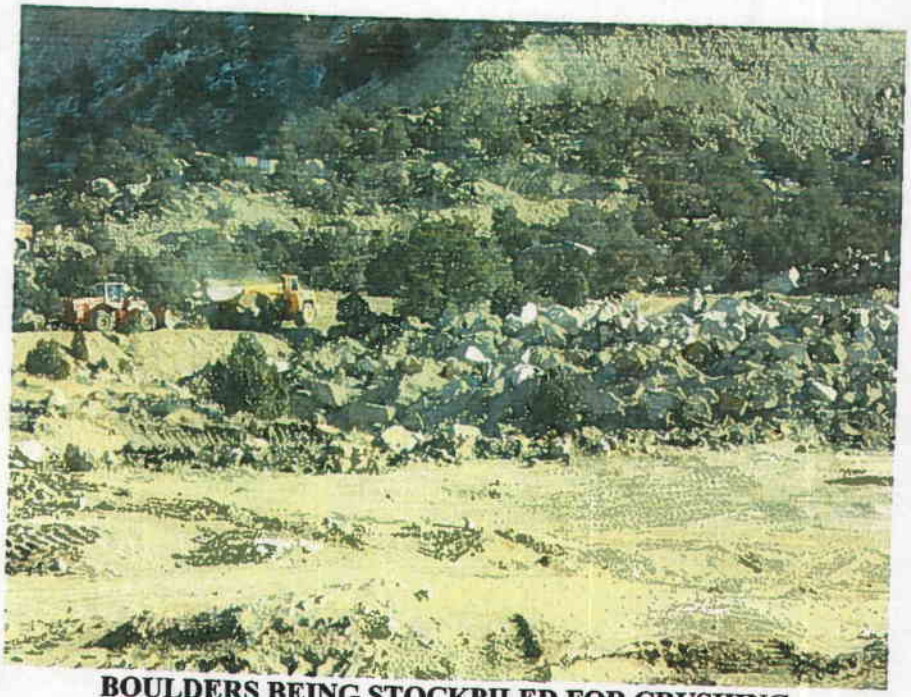
PHOTOGRAPHS



BOULDERS BEING CRUSHED INTO GRAVEL



CRUSHED GRAVEL PILE



BOULDERS BEING STOCKPILED FOR CRUSHING

January 28, 2009 (Tom Paluso)

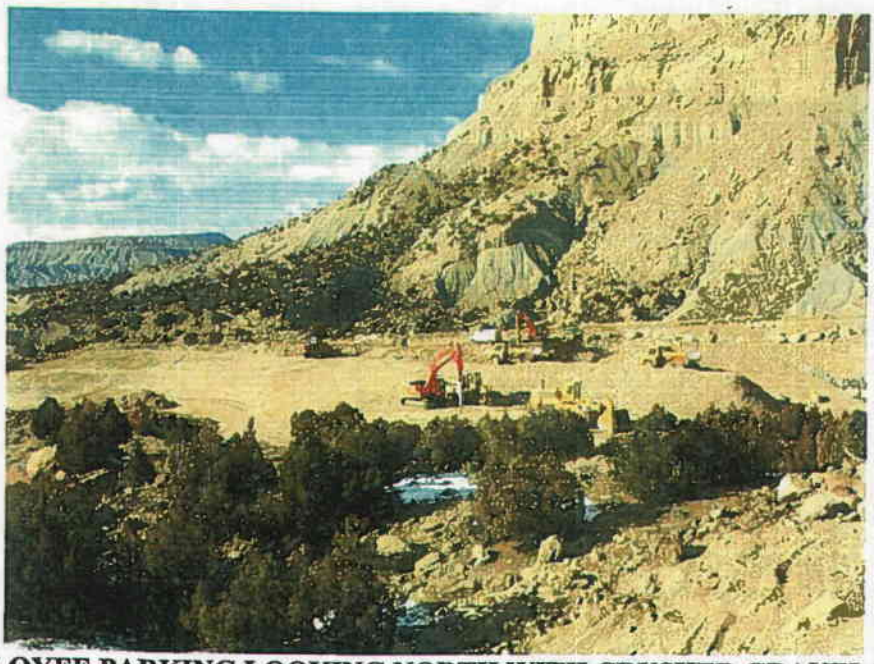
The following activities were observed during site visit:

1. Removing material from north end of parking lot.
2. Removing topsoil from stacking tube area.
3. Employee parking lot grading.

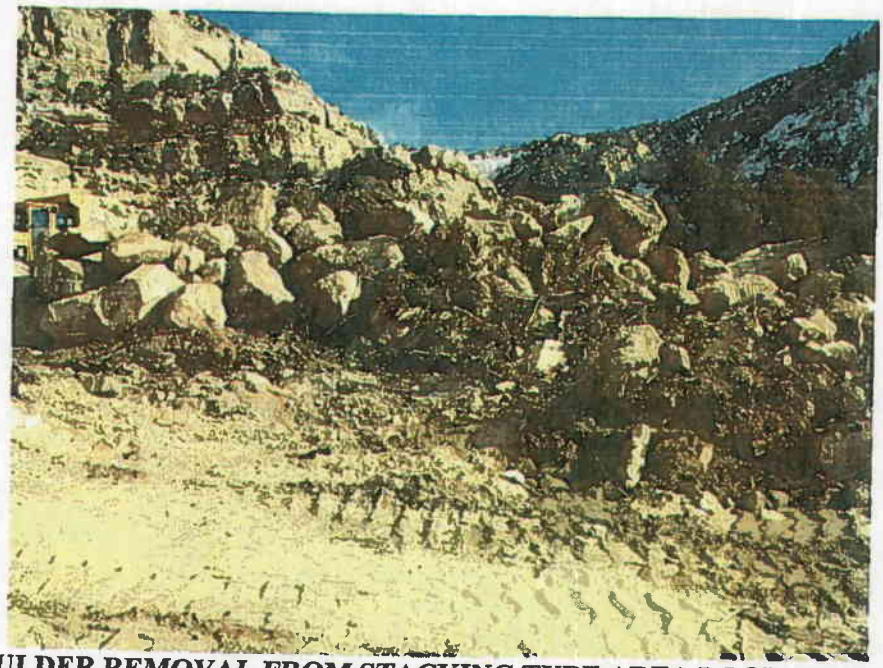
PHOTOGRAPHS

PARKING LOT MATERIAL REMOVAL

FINAL GRADING WEST END OF EMPLOYEE PARKING AREA



EMPLOYEE PARKING LOOKING NORTH WITH CRUSHED GRAVEL PILE



BOULDER REMOVAL FROM STACKING TUBE AREA LOOKING EAST

TOPSOIL REMOVAL FROM STACKING TUBE AREA LOOKING NORTH

STACKING TUBE AREA LOOKING EAST TOWARDS PORTALS

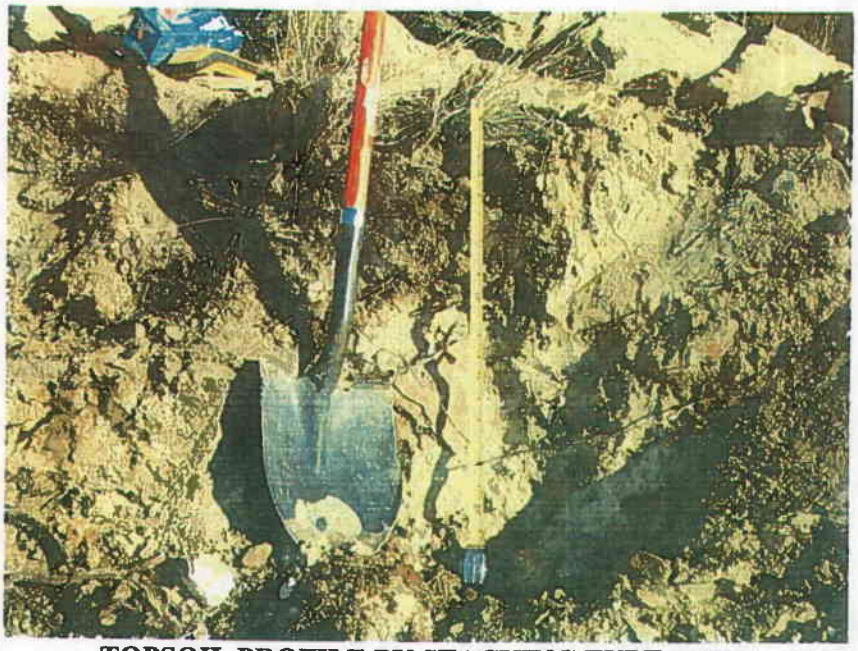
EAST OF STACKING TUBE LOOKING WEST

January 29, 2009 (Tom Paluso)

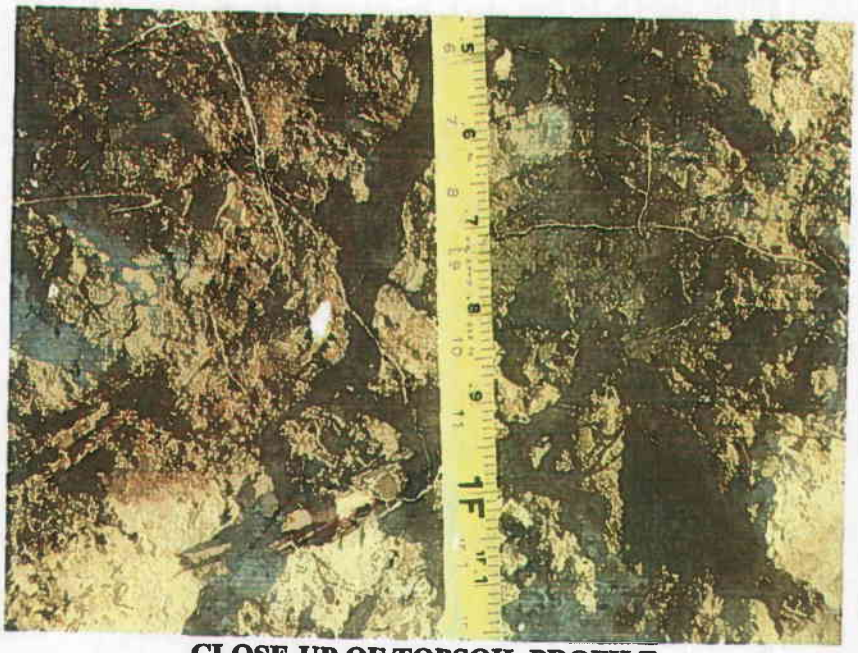
The following activities were observed during site visit:

1 Removing material from north end of parking lot.
2 Removing topsoil from stacking tube area.
3 Employee parking lot grading.

PHOTOGRAPHS



TOPSOIL PROFILE BY STACKING TUBE AREA



CLOSE-UP OF TOPSOIL PROFILE

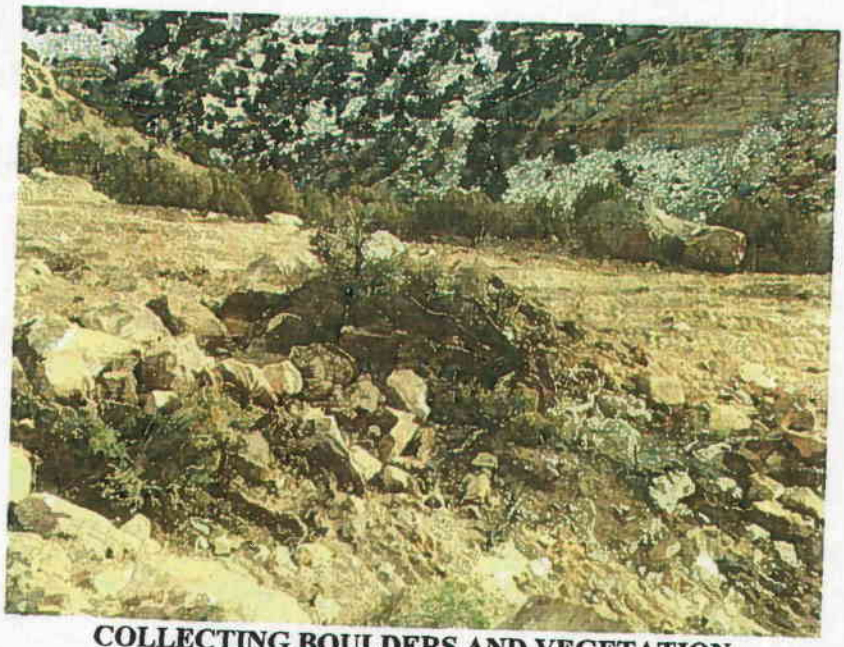
February 6, 2009 (Tom Paluso)

The following activities were observed during site visit:

1. Removing topsoil from shop-warehouse area.
2. Completing work around silo area.

PHOTOGRAPHS

LOOKING SOUTHEAST FROM SILO AREA, TOPSOIL IS BEING COLLECTED



COLLECTING BOULDERS AND VEGETATION

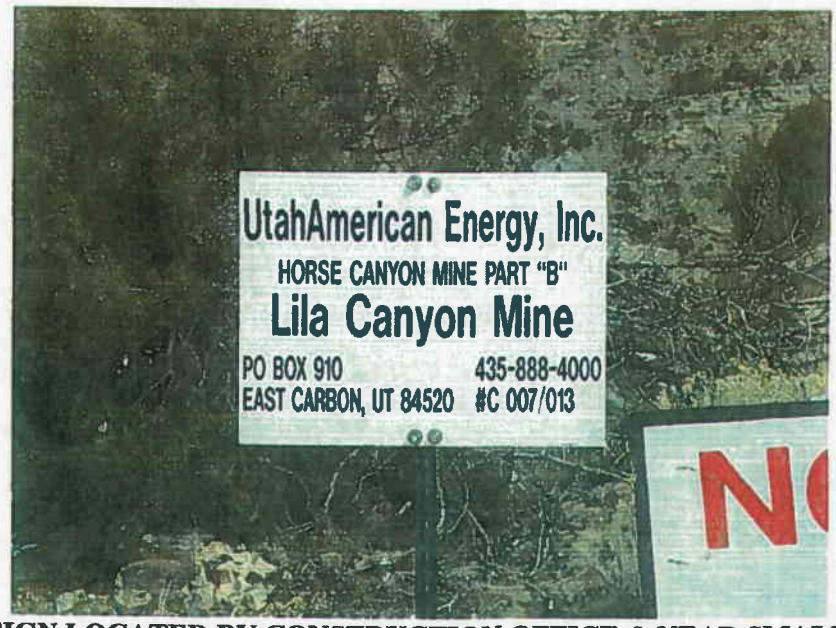
LOOKING NORTHEAST FROM SILO AREA, TOPSOIL HAS BEEN REMOVED

February 18, 2009 (Tom Paluso)

The following activities were observed during site visit:

1. Removing topsoil from small Stormwater Detention Pond.
2. Removing remaining topsoil from large Stormwater Detention Pond.
3. Working on final grade for Portal Access Road

PHOTOGRAPHS

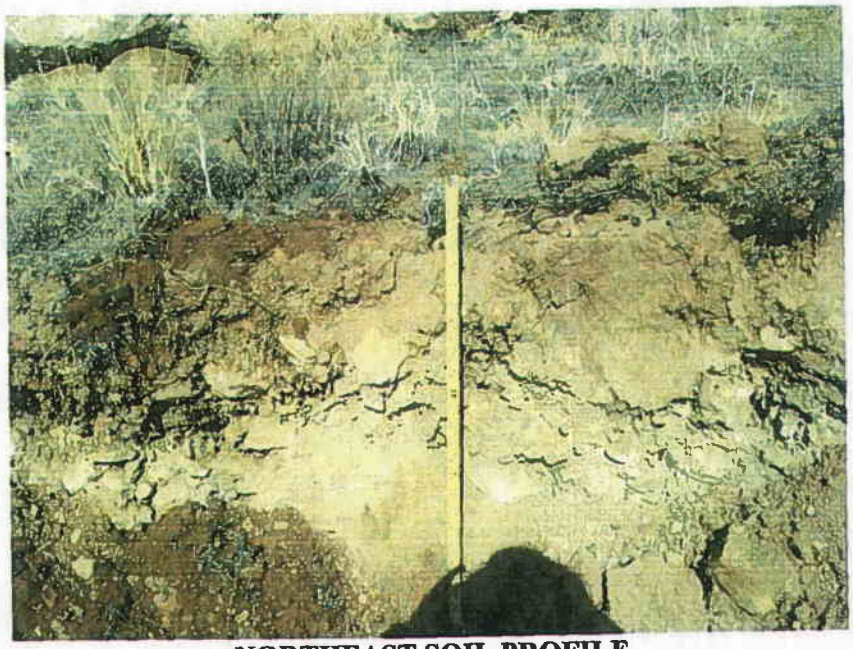


SIGN LOCATED BY CONSTRUCTION OFFICE & NEAR SMALL STORMWATER DETENTION POND

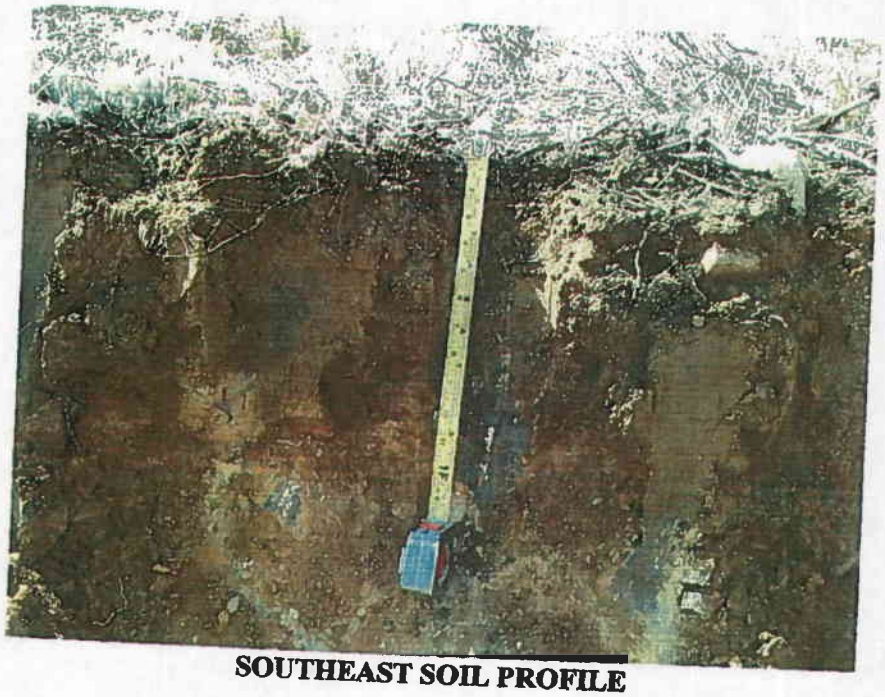
COLLECTING TOPSOIL AT SMALL STORMWATER RETENTION POND (SRP)

COLLECTING TOPSOIL AT SMALL SRP

REMOVING BOULDER FROM SMALL SRP



NORTHEAST SOIL PROFILE



SOUTHEAST SOIL PROFILE

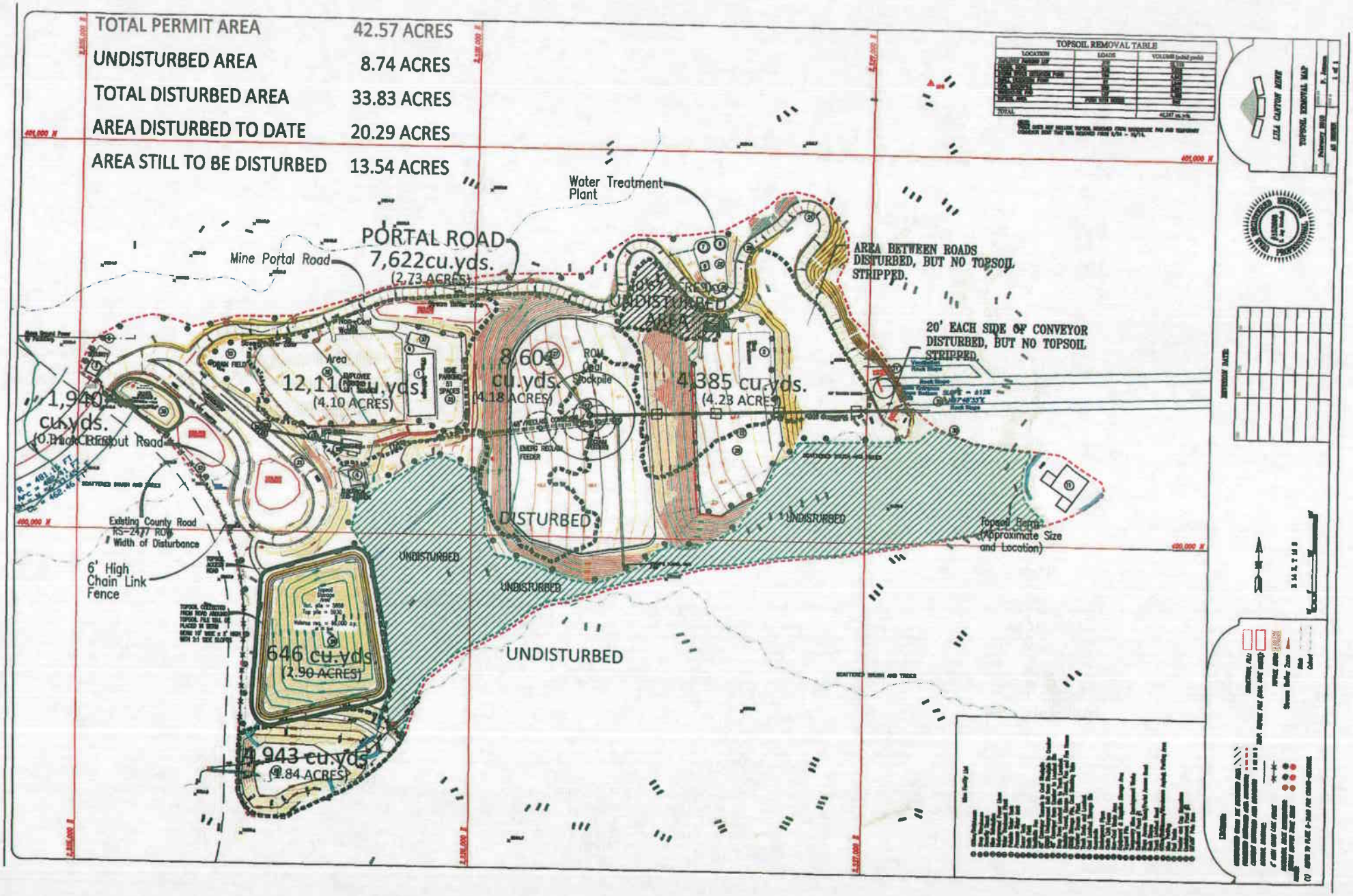
REMOVE REMAINING MATERIAL FROM LARGE STORMWATER RETENTION POND (SRP)

WEST END LARGE SRP

FINAL WORK ON PORTAL ROAD

TOPSOIL PILE LOOKING NORTHEAST

TOPSOIL PILE LOOKING SOUTH EAST



G:\Current Drawings\Lila Canyon\Permit Drawings - Chapter 5\Topsoil Removal Map.dwg, Model, 3/26/2010 10:56:37 AM

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

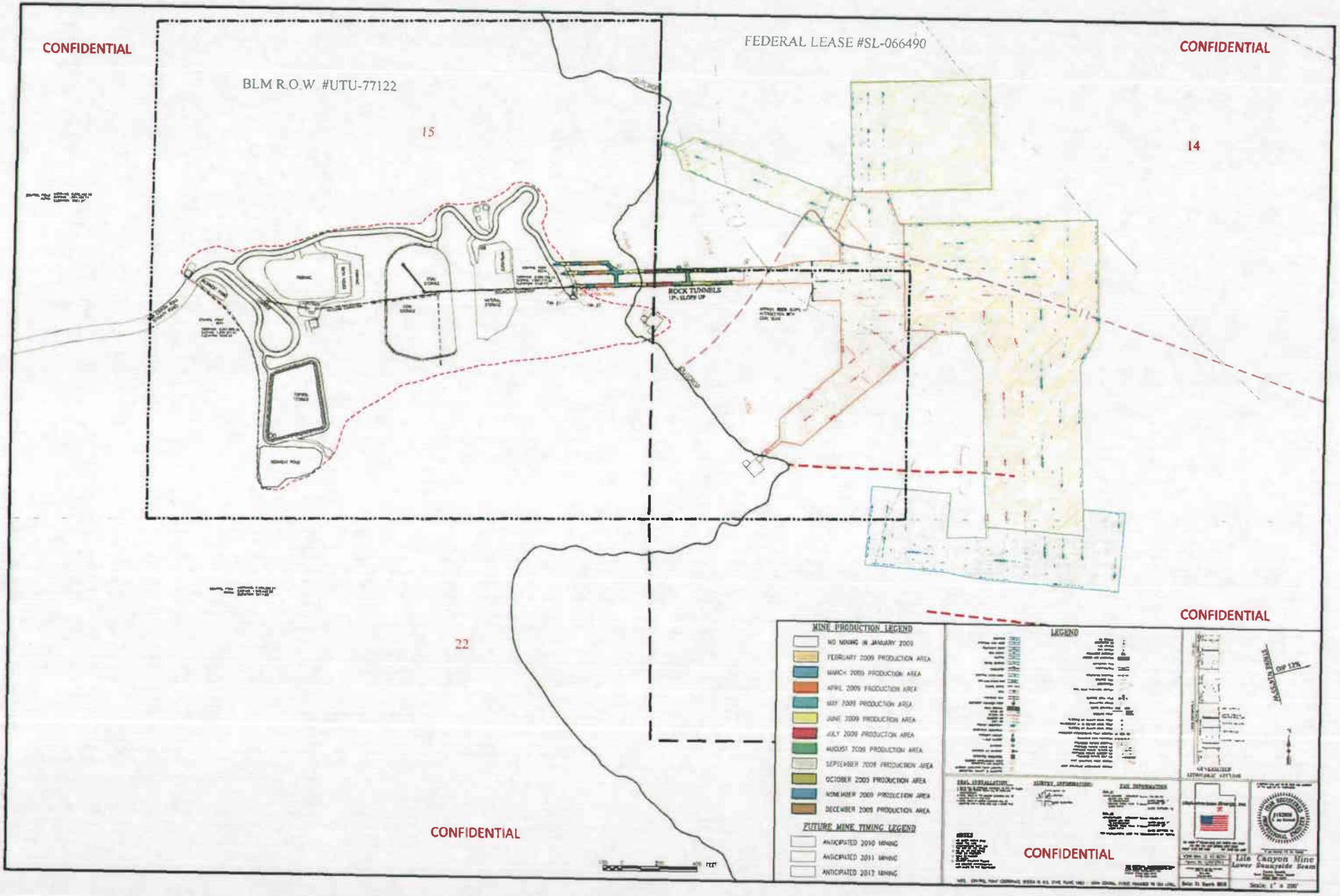
CONTENTS

APPENDIX D

Mine Maps

As required under R645-302-525-270

CONTENTS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FEDERAL LEASE #SL-066490
CONFIDENTIAL
15
14
ROCK TUNNELS
22
CONFIDENTIAL
CONFIDENTIAL
CONFIDENTIAL
MINE PRODUCTION LEGEND
NO MINING IN JANUARY 2009
FEBRUARY 2009 PRODUCTION AREA
MARCH 2009 PRODUCTION AREA
APRIL 2009 PRODUCTION AREA
MAY 2009 PRODUCTION AREA
JUNE 2009 PRODUCTION AREA
JULY 2009 PRODUCTION AREA
AUGUST 2009 PRODUCTION AREA
SEPTEMBER 2009 PRODUCTION AREA
OCTOBER 2009 PRODUCTION AREA
NOVEMBER 2009 PRODUCTION AREA
DECEMBER 2009 PRODUCTION AREA
FUTURE MINE TIMING LEGEND
ANTICIPATED 2010 MINING
ANTICIPATED 2011 MINING
ANTICIPATED 2012 MINING
LEGEND
Lila Canyon Mine
Lower Swanyside Seam

APPENDIX E

Other Information

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

CONTENTS

Lila Canyon Project Wildlife Enhancement

April 2, 2010

Introduction

These projects are part of the Lila Canyon Project Emery County, Utah described in the 2000 EA/FONSI/DR (UT-070-99-22), approved by BLM on October 27, 2000. The projects are to fulfill the mitigation/enhancement for displacement and direct disturbance of wildlife and vegetation loss.

On page 27 of the EA it was stated "Wildlife Enhancement Projects - UEI would provide two rainfall water catchments to benefit bighorn sheep populations and habitat use within the area above the proposed mine site. These guzzlers would be installed by BLM and Utah Division of Wildlife Resources (UDWR) in suitable locations along the cliff-talus habitat south of the Lila Canyon area. This project would be implemented in the same manner as described in detail in the EA "Saddlehorn Water Catchment" EA Number UT-06697-1 which addressed similar concerns relative to Bighorn Sheep."

"In addition to this project, UEI would complete a vegetation treatment project within the affected area to increase small mammal populations, and thus increasing the forage capacity for area raptor populations. Project design would be provided by BLM and UDWR and involve treating and reseeding approximately 93 acres of habitat. The vegetation treatment would be designed to improve diversity and density of vegetation cover types and create a mosaic of treated and untreated areas to maximize benefits of edge for wildlife species."

The EA/DR specified what was to be completed, but did not identify the locations of where the projects were to be done. This site-specific plan does that.

The Decision Record did anticipate that the two guzzlers would be in non-WSA lands with wilderness characteristics. "Surface facilities within the proposed mine site and proposed guzzlers would directly disturb eight acres of the natural wilderness value and future designation of the immediate area as wilderness within the Desolation Canyon Inventory Unit 8. (1999 Utah Wilderness Inventory)"

Project goal

Guzzler mitigation

The purpose of this wildlife enhancement is to provide water for bighorn sheep. Springs and seeps, that are used by bighorns when flowing, could be disrupted by the coal mining activities. The guzzlers would replace those. The bighorn water catchments would not be available to livestock.

Vegetation treatment project

The purpose of this enhancement project is to increase the habitat (security cover) for small game (rabbits, mice, and other small mammals). Brush piles provide more security for rabbits, thereby increasing the numbers of rabbits, which provide more food for foraging raptors. The traffic on the coal haul road could disturb raptors from hunting next to the road. The road and mine facilities are placed on top of habitat that would have produced small game that would have been food for raptors. The vegetation treatment project would be located in areas with fewer disturbances and the productivity of small game would be enhanced.

Expected benefits

Guzzler Mitigation

Sources of permanent, reliable water would be provided for the existing bighorn sheep in the immediate area. These are guzzlers that will be additional and dependable long-lasting water sources for bighorn sheep. Distribution of bighorn sheep is closely tied to available water, particularly during lambing season and later in the summer months. Water development projects in areas near escape terrain and thermal cover could improve bighorn sheep distribution, production, and survival in the area.

Vegetation treatment project

Brush piles provide more security for rabbits, thereby increasing the numbers of rabbits, which provide more food for foraging raptors. In addition, removing the younger P/J trees opens up the sagebrush parks creating a transition zone for bighorn sheep. Bighorn sheep could move from the steeper habitat of Lila Canyon through the enhancement areas up to another level of steep, rocky habitat beneath Lila Point. Moreover, the removal of the younger P/J trees reduces competition for the existing sagebrush plants and permits young sagebrush to be established along with forbs and grasses. By only designating Pinyon Pine and Juniper to be cut, the project leaves the occasional Douglas Fir or Ponderosa Pine to remain. In addition, the larger, older Pinyon Pine and Juniper would be left. The younger, invasive P/J trees are targeted to be cut. The end result would be a more open savanna-like sagebrush park, similar to historic habitat.

Project procedures

Guzzler Mitigation

Description of Work: The Utah Division of Wildlife Resources has already purchased, installed, and is operating a bighorn sheep guzzler on privately owned land (UEI owned) near the mine portal and facilities. The legal description for this guzzler is T16S, R14E, Sec 15 and is identified as the Lila Canyon Guzzler. This guzzler is now providing water

to animals in the immediate vicinity of the mine. UEI would compensate UDWR for the materials used for this existing guzzler; by purchasing the supplies and materials that could be used to construct another guzzler. In addition, UEI would be responsible for purchasing another guzzler. This would include all the parts and materials, including fencing materials, to provide another guzzler in the immediate area. In total, UEI would purchase enough supplies, parts, and materials for 2 complete guzzlers.

If a helicopter is available, then the guzzler location in T16S R14E Sec 26 NW1/4 is the preferred location. By ground access, the next preferred location is in T16S R14E Sec 26 NE1/4. Access for construction would be by traveling on an old road, which was used for drilling test drill holes, and by using the wash bottom. After construction, the visible tracks would be drug out or raked out. A fence would have to be added around the guzzler to keep livestock from drinking the water in the guzzler. The third preferred location is in T16S R14E Sec 13 SW1/4. This location is similar to the second in that access is by ground and a fence would be needed.

Vegetation treatment project

General Description of Work: The units are approximately 93 acres in total. Only green and dead Pinyon Pine and Juniper trees would be treated. Most of the units (67 acres) would be treated by hand crews cutting, limbing, and then leaving the trees and limbs. The loose accumulations of limbs and trunks would be left as is and would not be burnt. In a smaller subset of the units, some of the piles would be burned to reduce the fuel loading. This unit (26 acres) would be treated by hand crews cutting and piling. Only green and dead Pinyon Pine and Juniper trees would be treated. About half of the piles would be left as is and would not be burned. The remaining piles would be burned.

Detailed Work Description: *Cut and Limb*

Specific Description of Work: All green and dead Pinyon Pine and Juniper (Cedar) trees up to a bole diameter of 16 inches, measured at the root collar, within the project boundaries, shall be completely severed from the stump(s). Stump height shall not exceed 6 inches measured on the uphill side. No live or dead limbs shall be left on the stump of cut trees. All main branches, limbs, or stems shall be cut from the severed trunks of the trees. Both ends of the severed trunk shall be resting on the ground. All small green and dead Pinyon Pine and Juniper (Cedar) trees standing taller than 24 inches shall be completely severed from the stump(s). All trees and shrubs not identified as Pinyon or Juniper shall be designated as leave trees. All large green and dead Pinyon Pine and Juniper (Cedar) trees, which are greater than a bole diameter of 16 inches measured at the root collar, are also leave trees. All leave trees would be left as is, not severed or limbed.

All trees cut, that are within 100 feet of the Little Park road (the main access road), shall be pulled away from the road, limbed, and left there. Reseeding is not planned, since there is a seed source from the existing shrubs, forbs and grasses.

The 2 units are approximately 67 acres in total. The BLM-administered lands would have 67 acres treated, with none on private or State of Utah lands.

Detailed Work Description: *Cut and Pile*

Specific Description of Work: Green and dead Pinyon Pine and Juniper (Cedar) trees up to a bole diameter of 16 inches, measured at the root collar, within the project boundaries, shall be completely severed from the stump(s). No live or dead limbs shall be left on the stump of cut trees. Stump height shall not exceed 6 inches measured on the uphill side. All main branches or stems shall be cut from the trunk of the tree. Both ends of the trunk shall be resting on the ground. All vegetation not identified as Pinyon or Juniper shall be designated as leave trees. All small, green Pinyon Pine and Juniper (Cedar) trees taller than 24 inches shall be completely severed from the stump(s).

Piles shall be no larger than 6 feet by 6 feet in size and shall not be located on or adjacent to any fence, road, trail, or boundary line. All cut slash between 1 and 4 inches in diameter and greater than 2 feet in length shall be piled. All cut vegetation greater than 4 inches in diameter must not be piled and shall be left scattered on the ground. Fine fuels (limbs with needles) shall be placed at the bottom of the pile with larger branches placed on top. The near edge of piles shall be at least 10 feet from the edge of any other pile, live tree canopy or physical improvement (such as fence or cattleguard). Piles shall not be located within 10 feet of the unit boundary.

About half of the piles would be left as is and would not be burned. The remaining piles would be burned. The BLM fuels reduction crew would determine which piles would be burned in order to lessen the fuel loading for the area.

Reseeding is planned for the spots where the piles were burnt and other soil disturbed areas.

The unit is approximately 26 acres in total. The BLM-administered lands would have 26 acres treated, with none on private or State of Utah lands.

Company commitment

Guzzler Mitigation

This also is part of the Lila Canyon Project Emery County, Utah 2000 EA/FONSI/DR (UT-070-99-22), and fulfills the mitigation/enhancement for displacement of bighorn sheep. In the mitigation part of the Decision Record "UEI would be required to provide two guzzlers to benefit bighorn sheep populations and habitat because of the potential loss of seeps." UEI would purchase and deliver to the DWR office in Price, Utah the parts, tanks, supplies, and materials needed to construct 2 guzzlers, along with fencing materials.

Vegetation treatment project

Anticipated habitat disturbance associated with the proposed action from Table 4.2 in the EA -

"This life of project acreage would encompass the 50-foot ROW of the road, mine surface area, and power line facilities" (p. 55 Sept 2000 EA).

Lila Canyon road - 16.97 acres; road - 39.88 acres; power line (10% of power line ROW) - 1.26 acres; mine surface facility; 35.00 acres; total - 93.11 acres.

Since the Lila Canyon road is not being rebuilt, the total was modified to 76.14 acres.

UEI would pay for and complete a vegetation treatment project within the affected area to increase small mammal populations, and thus increasing the forage capacity for area raptor populations. Project design would be provided by BLM and DWR and involve treating and reseeding approximately 93 acres of habitat.

The plan, that UEI would fund and administer, includes a cultural resource inventory of the area, hiring the vegetation treatment contractor, oversight of their work, and purchasing seed. BLM and DWR would participate in a cooperative review of the completed work, along with UEI, to determine if the work is satisfactory. In addition the project would be inspected for any noxious weeds, that may grow within 1 growing season after the vegetation treatment. UEI would cooperate in a control program if necessary.

Implementation Dates

Guzzler Mitigation

2010, June - Locate, mark, and GPS the location - responsibility of BLM and DWR

2010, June - Conduct a Cultural Resource Survey and provide a report to BLM - responsibility of UEI

2010, June-July - Prepare the environmental documents and consult with SHPO - responsibility of BLM

2010, July - Provide to UEI a list of tanks, materials, and supplies including the sources of the materials for the installation of 2 guzzlers - responsibility of DWR

2010, August - Purchase and deliver the materials for 2 guzzlers to the DWR office - responsibility of UEI

2010, after August 15 - Install guzzler - responsibility of DWR and BLM.

Vegetation treatment project

2010, June - Locate, mark, and GPS the units - responsibility of BLM, DWR, and UEI

2010, June - Conduct a Cultural Resource Survey and provide a report to the BLM - responsibility of UEI

2010, June-July - Prepare the environmental documents and consult with SHPO - responsibility of BLM

2010, initiate the on-the-ground work after August 15 and complete by October 30 - Contract, oversee, and pay hand crews to cut, limb and for the hand crews to cut, pile - responsibility of UEI

2010 - Inspect the work during and after completion - responsibility of BLM, DWR and UEI

2011, before September - Purchase seed - responsibility of UEI

2011, after October 15 - Burn some of the piles - responsibility of BLM

2011, after the burning - Seed burn piles locations and disturbed areas - responsibility of BLM.

Project Location

Guzzler Mitigation

Emery County, Utah

Possible locations are shown with blue tank-like symbols. If a helicopter is available, then the guzzler location in T16S R14E Sec 26 NW1/4 is the preferred location. The next preferred location is in T16S R14E Sec 26 NE1/4. The third preferred location is in T16S R14E Sec 13 SW1/4.

Vegetation treatment project

Emery County, Utah

The project area is located near Horse Canyon, approximately 20 miles southeast of Price, Utah. The closest mapped geographic place is Lila Point. The general legal description for part of the project area is T16S, R14E, Sec 10, at an elevation of 7400 feet and surrounds existing sagebrush areas.

Agency Contacts

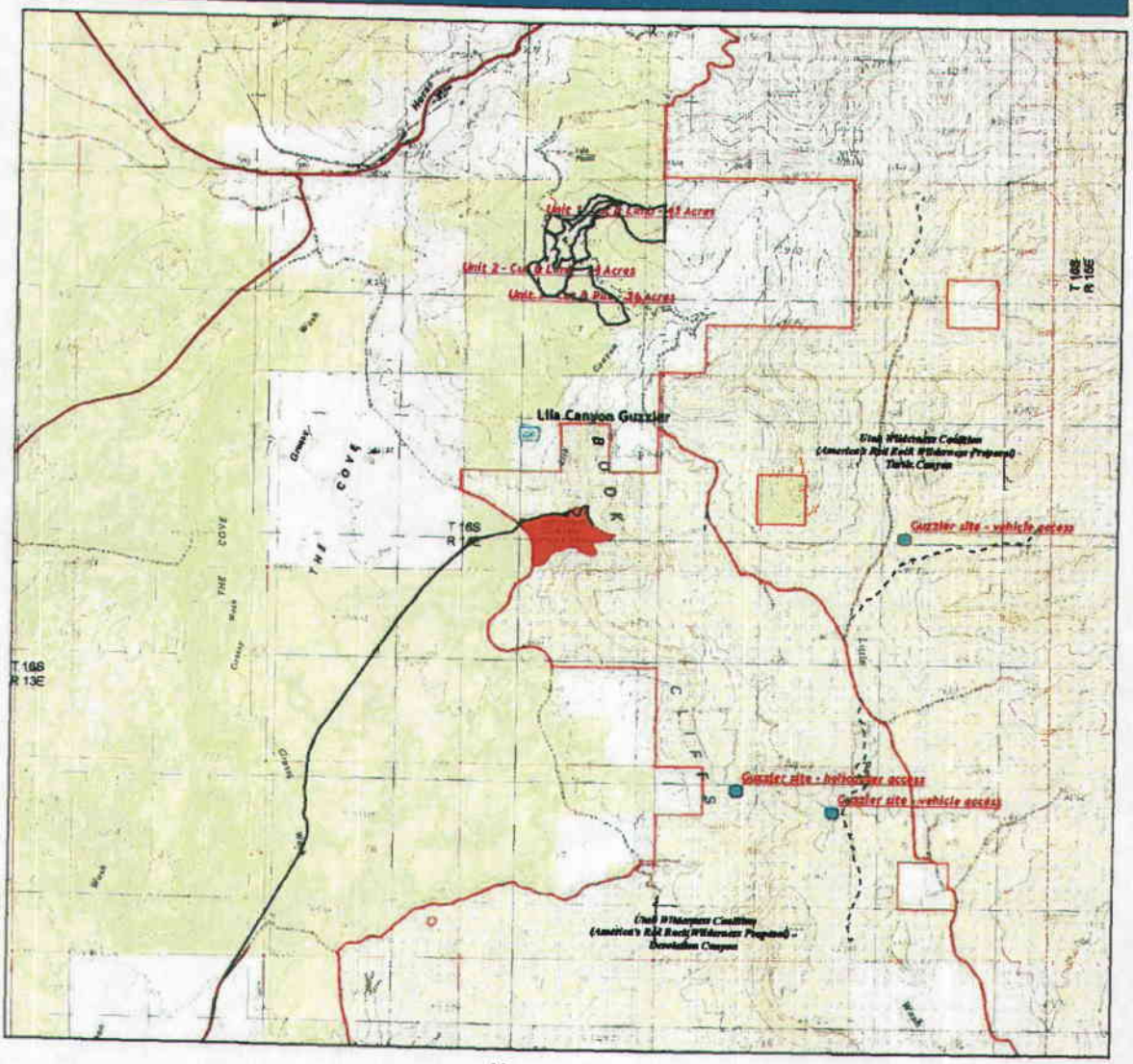
Jay Marshall, 435-888-4007
UtahAmerican Energy Inc.
P.O. Box 910
East Carbon, UT 84520

David Waller, 435-636-3624
Bureau of Land Management
125 S 600 W
Price, UT 84501

Leroy Mead/Nicole Nielson, 435-613-3700
Utah Division of Wildlife Resources
319 N. Carbonville Rd., Suite A
Price, UT 84501

Nathan Darnall, 801-975-3330 ext 137
Fish and Wildlife Service
2369 West Orton Circle, Suite 50
West Valley City, UT 84119

Lila Canyon Project Wildlife Enhancement



Legend

- Lila Canyon Project Wildlife Enhancement
- Potential Bighorn Guzzler Locations
- Existing Bighorn Sheep Guzzlers
- Lila Canyon Mine Facilities
- Bureau of Land Management
- State of Utah
- Private

Utah Wilderness Coalition BLM Wilderness Proposal

- Citizens' Proposal

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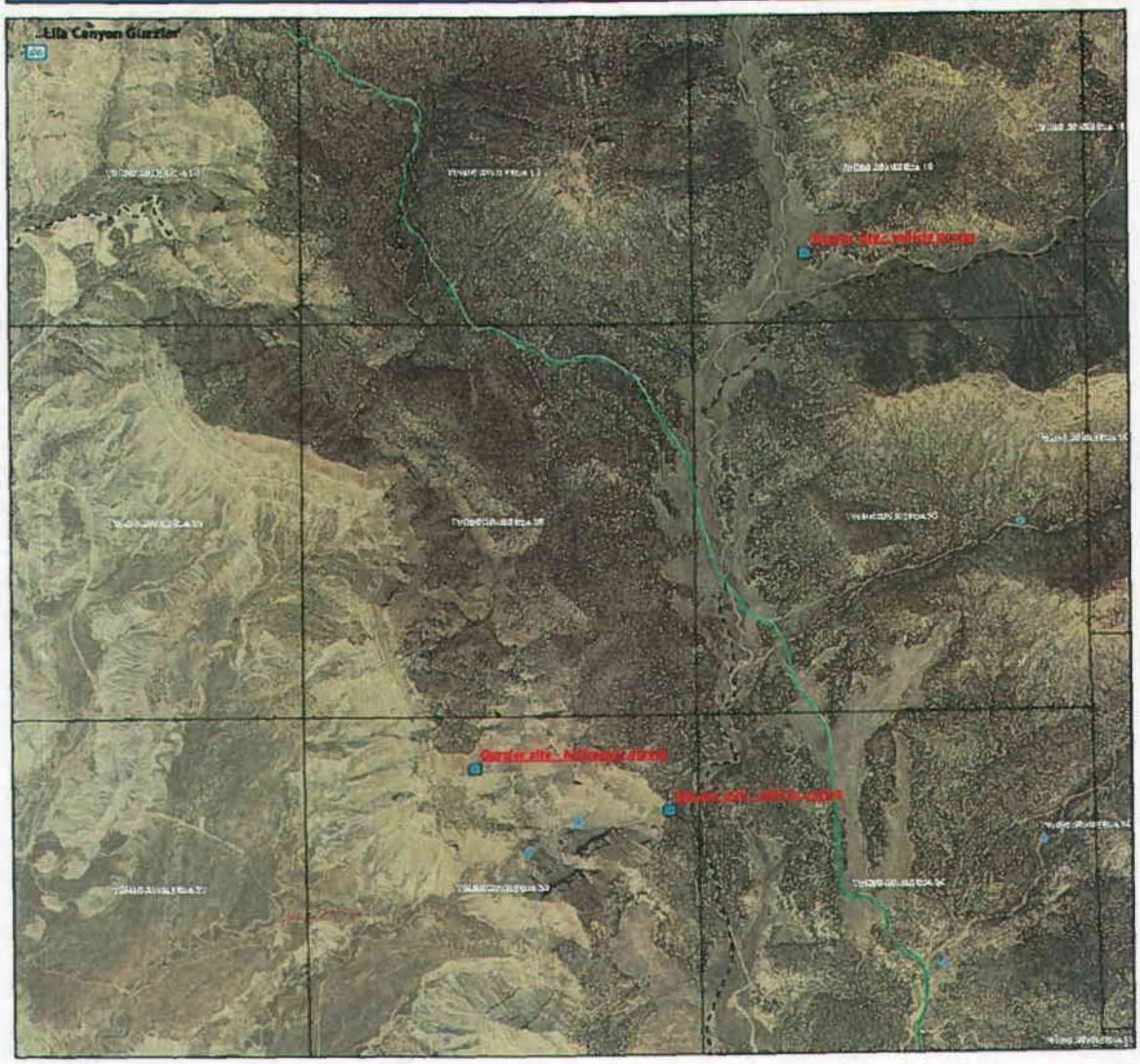
David L. Waller
Price Field Office
Utah State Office
Bureau of Land Management

Lila Canyon Wildlife Enhancement - Guzzler Access



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Legend

- Potential Bighorn Guzzler Locations
- Springs
- Existing Bighorn Sheep Guzzlers

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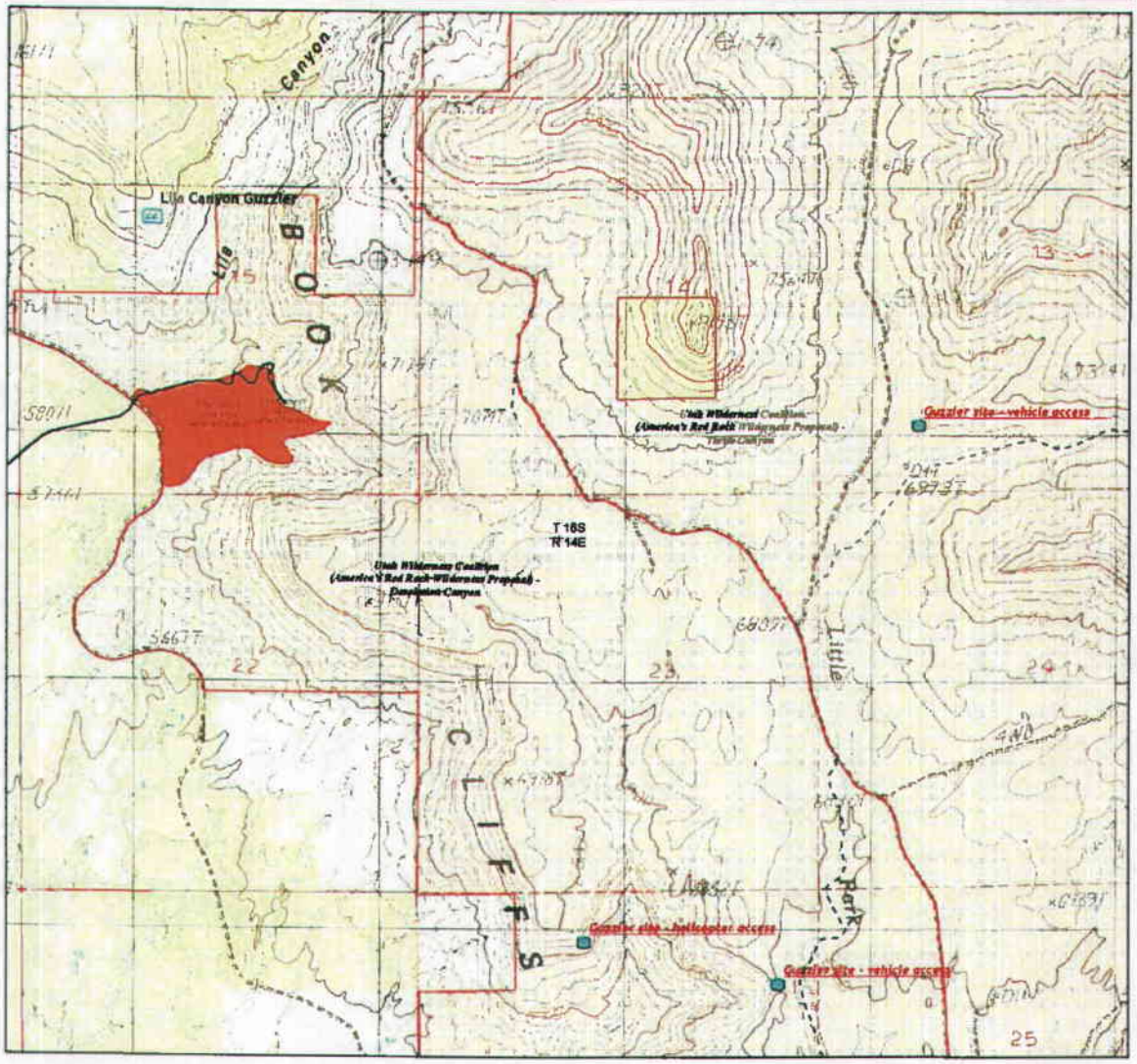
David L. Waller
Price Field Office
Utah State Office
Bureau of Land Management

Lila Canyon Project Wildlife Enhancement - Guzzlers



Legend

- Potential Bighorn Guzzler Locations
- Existing Bighorn Sheep Guzzlers
- Lila Canyon Mine Facilities
- Bureau of Land Management
- State of Utah
- Private

Utah Wilderness Coalition BLM Wilderness Proposal

- Citizens' Proposal

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Utah State Office
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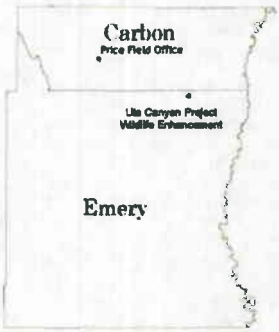
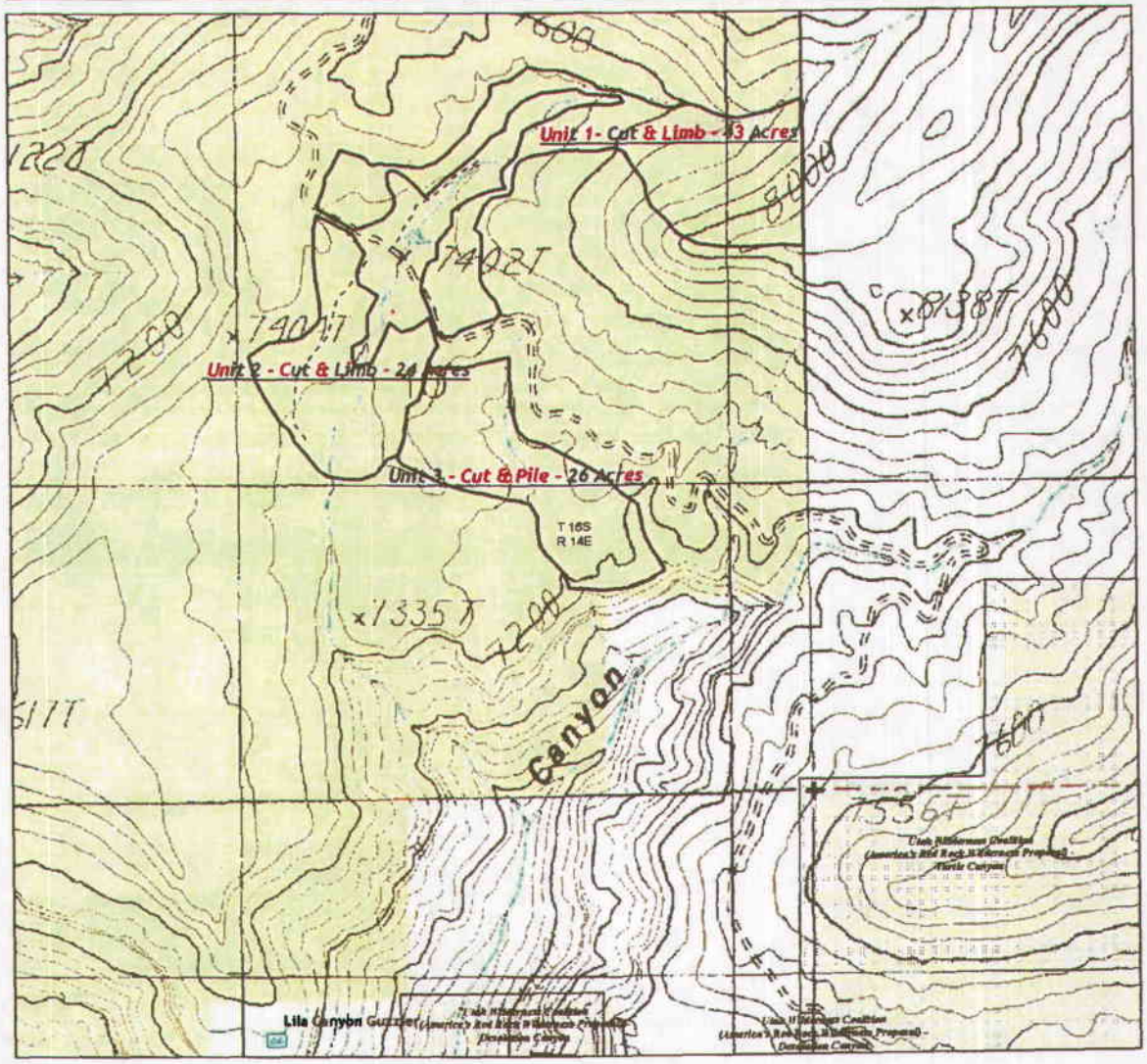


Lila Canyon Wildlife Enhancement - Vegetation Treatment



Legend

- Lila Canyon Project Wildlife Enhancement
- Existing Bighorn Sheep Guzzlers
- Lila Canyon Mine Facilities
- Bureau of Land Management
- State of Utah
- Private

Utah Wilderness Coalition BLM Wilderness Proposal

- Citizens' Proposal

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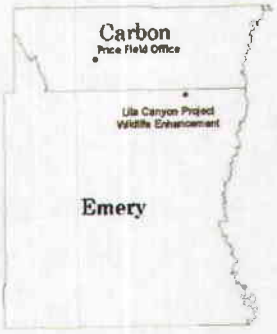
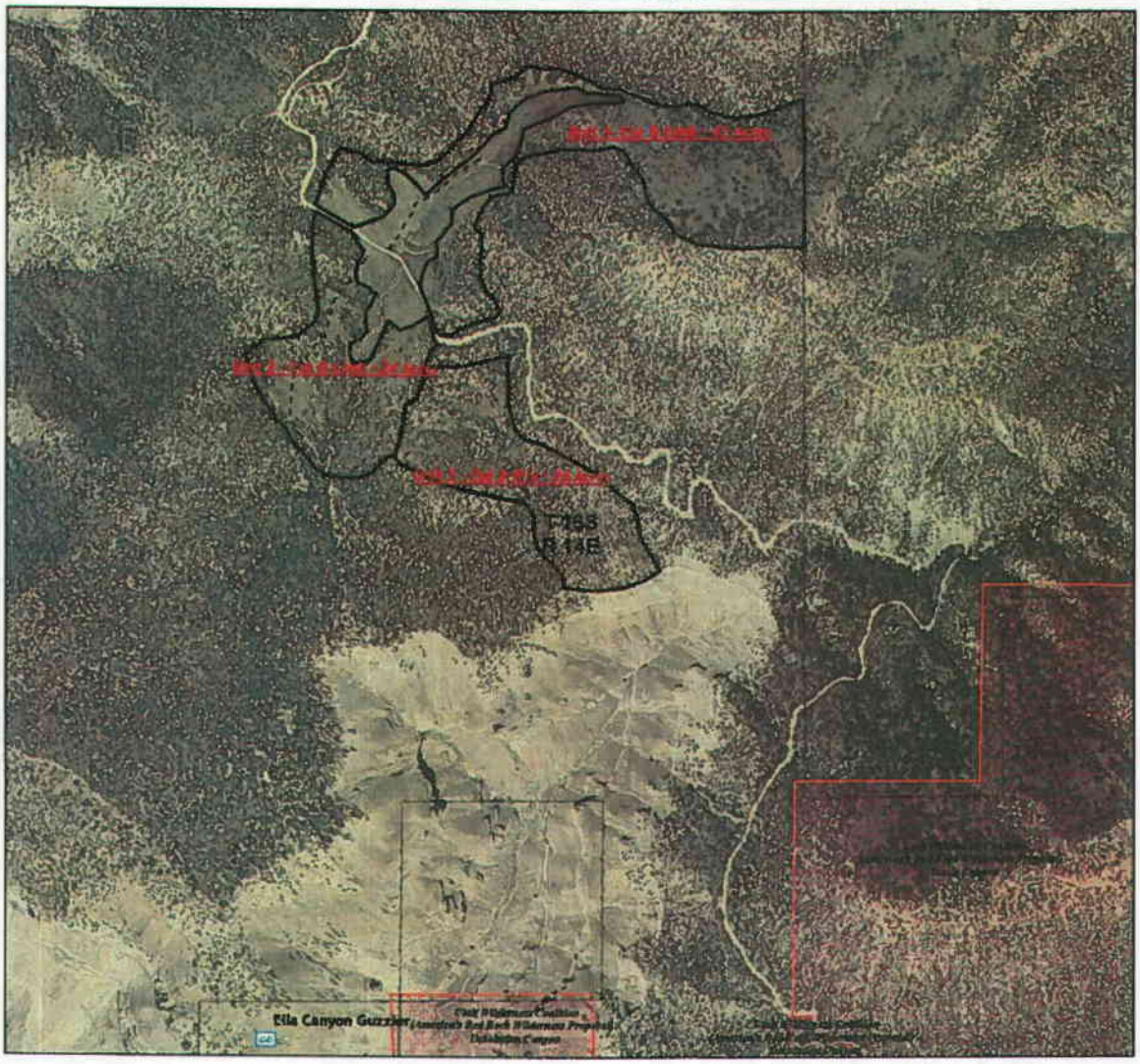


Created 2010-March-12
David L. Waller
Price Field Office
Utah State Office
Bureau of Land Management

Lila Canyon Wildlife Enhancement - Vegetation Treatment



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Legend

- Lila Canyon Project Wildlife Enhancement
- Existing Bighorn Sheep Guzzlers
- Lila Canyon Mine Facilities
- Utah Wilderness Coalition BLM Wilderness Proposal
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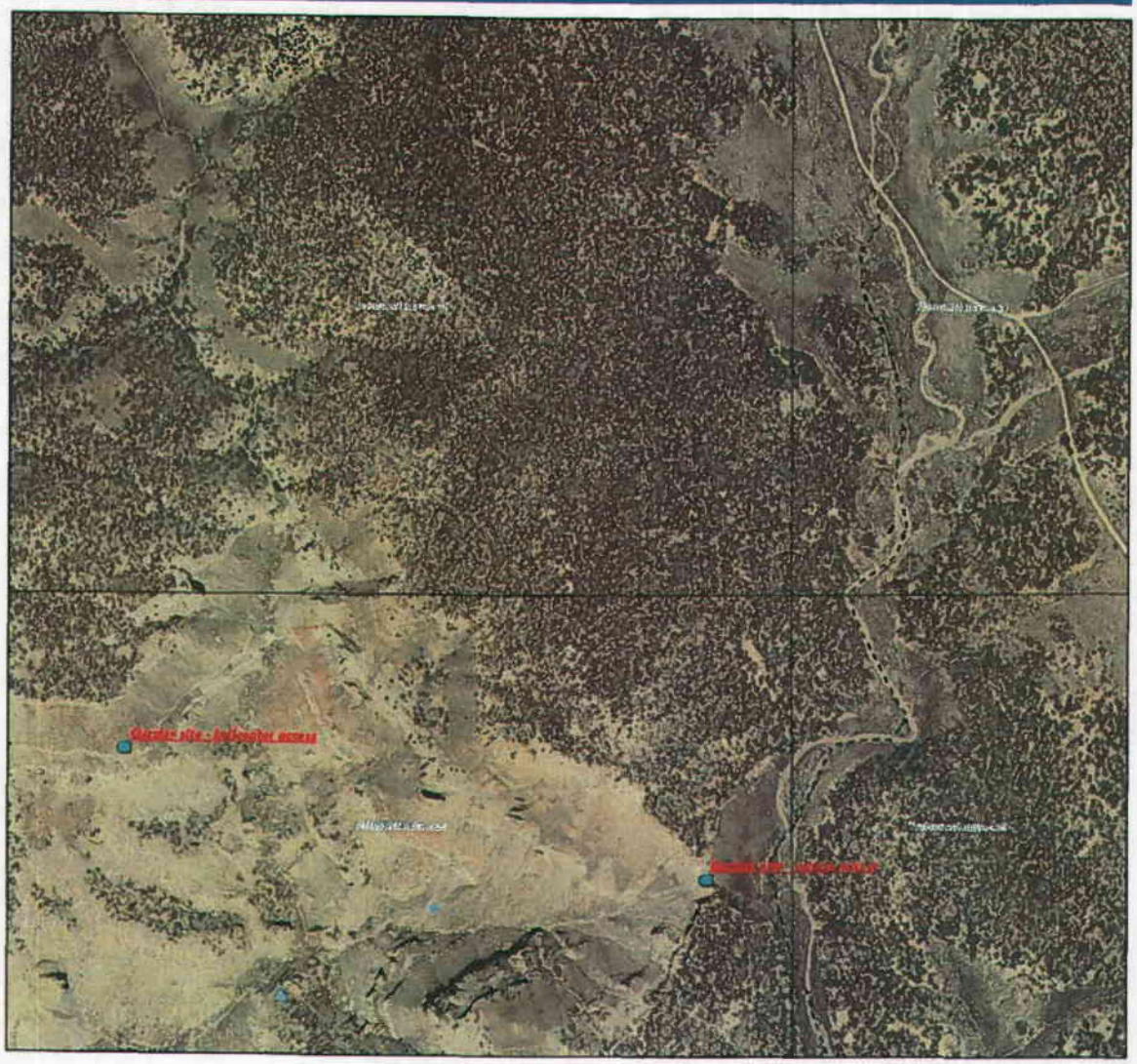
Created 2010-March-12
David L. Waller
Price Field Office
Utah State Office
Bureau of Land Management

Lila Canyon Wildlife Enhancement - Guzzler Access



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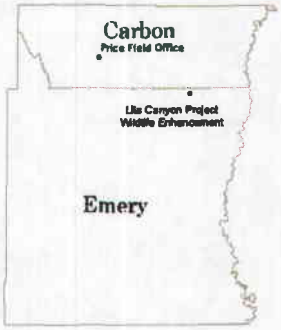

Legend

- Potential Bighorn Guzzler Locations
- Springs
- Existing Bighorn Sheep Guzzlers

Created 2010-March-12
David L. Waller
Price Field Office
Utah State Office
Bureau of Land Management

UtahAmerican Energy, Inc.

794 N. "C" Canyon Road, P. O. Box 910, East Carbon, Utah 84520
Phone: (435) 888-4000
Fax: (435) 888-4002

Mr. Steve Rigby,
Bureau of Land Management
Price Field Office
125 South 600 West
Price, Utah 84501

March 29, 2010

RE: Public Notice of Proposed Mining

Dear Mr. Rigby;

R645-301-525.700 requires that the operator notify all owners and occupants of surface property of proposed mining. This letter is to notify the BLM of UtahAmerican Energy's intent to commence mining at the Lila Canyon Mine.

As you are aware from the review process that all surface areas subject to subsidence above the Lila Canyon proposed works is owned by the BLM.

Specific areas and timing for mining can be found on the BLM approved R2P2. The subsidence control plan associated with mining at lila Canyon can be examined either at the DOGM offices in Price, SLC, or at the mine site.

If you have any questions please give me a call.

Sincerely;

R. Jay Marshall

R. Jay Marshall P.E.
Chief Engineer/Project Manager
Lila Canyon Mine