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DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

June 30, 2014

Ken Fleck, Manager of Geology and Environmental Affairs
Energy West Mining Company
P.O. Box 310
Huntington, Utah 84528

Subject: 2013 Annual Report Review Completion, Deer Creek Mine, C/015/0018, Task ID #4570

Dear Mr. Fleck:

The Division staff has completed the review of the 2013 Annual Report. Enclosed is a copy of the review with each reviewer's comments completed on June 30, 2014.

Thank you for your diligence in completing the Annual Report. If you have any questions, please call me at (801) 538-5325.

Sincerely,

Daron R. Haddock
Coal Program Manager

DRH/sqs
Enclosure
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Print Form

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Annual Report

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

GENERAL INFORMATION			
Company Name	PacifiCorp	Mine Name	Deer Creek Mine
Permit Number	C/015/0018	Permit expiration Date	February 7, 2016
Operator Name	Energy West Mining Company	Phone Number	+1 (435) 687-9821
Mailing Address	P.O. Box 310	Email	kenneth.fleck@pacificorp.com
City	Huntington		
State	Utah	Zip Code	84528

DOGM File Location or Annual Report Location

Excess Spoil Piles

- Required
- Not Required

Refuse Piles

- Required
- Not Required

A copy of the quarterly Refuse pile reports are found in Attachment A

Impoundments

- Required
- Not Required

A copy of the quarterly Impoundment reports are found in Attachment A

Other: Raptor Report

Submitted as a separate confidential attachment.

OPERATOR COMMENTS

REVIEWER COMMENTS

- Met Requirements
- Did Not meet Requirements

Permittee has submitted Quarterly inspections of sediment ponds and refuse piles for 2013. All reports are P.E. certified.

COMMITMENTS AND CONDITIONS

The Permittee is responsible for ensuring annual technical commitments in the Mining and Reclamation Plan and conditions accepted with the permit are completed throughout the year. The Division has identified these commitments below and has provided space for you to report what you have done during the past year for each commitment. If additional written response is required, it should be filed as an attachment to this report.

Title: **RAPTORS**

Objective: To document the location and activity of nests that could be affected by mining.

Frequency: annually

Status: Ongoing

Reports: Submit annually in annual report.

Citation: MRP, Section 322, Subsection Terrestrial Species.

Operator Comments

Raptor monitoring was conducted in April 2013. Refer to (Confidential) file.

Reviewer Comments Met Requirements Did Not Meet Requirements

A raptor survey was actually conducted on May 1, 2013 by EIS. two active nests were noted 46 and 2065. Data from the follow up survey needs to be included in this report.

Title: **SUBSIDENCE MONITORING REPORT**

Objective: To Determine the effects of subsidence

Frequency: Annually

Status: Ongoing

Reports: Submit in annual report

Citation: MRP, Volume 3, Appendix X

Operator Comments

The annual subsidence report is submitted as a separate volume

Reviewer Comments Met Requirements Did Not Meet Requirements

The annual report included a 5 year mine plan map with the 2013 subsidence zones. The subsidence information is provided in the form of subsidence contours, profiles, rata data, etc. In addition to narrative, maps, and analysis, the report includes the pertinent subsidence data collected. Data includes an easting, northing, and elevation for subsidence monitoring locations. Subsidence zones were identified and profiles were generated. The subsidence report is complete, adequate, and exemplary. (JCO)

Title: ROOF, FLOOR, AND MID-SEAM MATERIAL IN ACTIVE SECTIONS TO BE SAMPLED ANNUALLY.

Objective: Transport and dispose of waste rock in a controlled manner.

Frequency: Annually in active sections

Status: Ongoing during mining

Reports: Annual report

Citation: MRP, Part 3, Estimated Waste Rock Volumes, R645-301-536, page 75

Operator Comments

Roof, rib, and floor samples were collected in 2013. Analysis results are found in Attachment D.

Reviewer Comments Met Requirements Did Not Meet Requirements

Reviewed by Priscilla Burton on 6/27/2014. The current workings of the Hiawatha seam in UTU-84285 and UTU 88554 are shown on Map on page 171 of the electronic Annual Report. The rib (DC0413), roof (DC0313) and floor (DC0513) analysis are found on page 177 of the electronic Annual Report. Rib and roof are alkaline with pH values in the 8.5 range, but the floor is strongly basic with pH of 10. Rib and floor samples show very little carbonate content and very little neutralization potential in this sandy material. No other issues were noted.

Title: WASTE ROCK SITE OPERATIONAL SAMPLING

Objective: Monitor chemical quality of waste at waste rock site.

Frequency: Grab samples upon completion of each two foot lift. Parameters as described.

Status: Ongoing during mining.

Reports: Annual Report

Citation: MRP, Volume 10, Chapter 7, page 7-4 to 7-5

Operator Comments

Deer Creek waste rock samples were collected in August 2013. Analysis results are found in Attachment D.

Reviewer Comments Met Requirements Did Not Meet Requirements

Reviewed by Priscilla Burton on 6/27/2014. Waste Rock site quarterly reports begin on page 56 of the electronic Annual Report document. The two Deer Creek sites were inspected on March 18, June 20, Sept. 17, and December 23, 2014. The Elk Canyon waste rock

site was completed 18 years ago, but is used year round for temporary storage of 2,000 tons (1,682 cu yd) of mine waste. The Deer Creek Waste rock site received a total of 11,203 cu yds of waste, based upon truck counts. (Trucks were assumed to be full with 15 tons of waste having a density of 88 pcf.) This volume of waste completed a lift in cell #2 and raised the elevation of cell 2 by about three feet. Some of that waste was reported to be from mine site sediment pond clean out in June. Also some of the waste deposited this year was from the Abandoned Mine Reclamation Program project that was ongoing in Deer Creek Canyon this year. An Earth Day Award was given in 2014 to PacifiCorps and Energy West Mining Co. for this cooperation. The waste was sampled August 16, 2013. The laboratory reports begin on page 172 of the electronic Annual Report. Intermountain Labs received two samples from the waste rock site, DC0113 and DC0213. the waste is slightly alkaline sandy material. There were no acid/toxic issues.

Title: DEMONSTRATION OF SELECTED OVERBURDEN AS BEST AVAILABLE MATERIAL IN THE PERMIT AREA FOR USE AS SUBSTITUTE TOPSOIL.

Objective: Monitor chemical quality of identified substitute topsoil to show reduction in sodicity.

Frequency: Sampling will occur once within each permit term until such time as the soils are found acceptable for substitute topsoil use. The last sample, collected in 2010, did not show suitability. The current permit term is 2011-2016.

Status: To be conducted once in current permit term (2011-Feb 2016).

Reports: Annual Report

Citation: MRP, Volume 2, Part 4, section R645-301-233, page 2-3

Operator Comments

No sampling or analysis was conducted in 2013.

Reviewer Comments Met Requirements Did Not Meet Requirements

Reviewed by Priscilla Burton on 6/27/2014. There is one more year left in the permit term to conduct the sampling. Please provide sampling prior to the permit renewal date.

FUTURE COMMITMENTS AND CONDITIONS

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

Title: WILDLIFE

Objective: Adhere to wildlife exclusionary periods.

Frequency: Ongoing

Status: Ongoing during Rilda portal reclamation

Reports: Not required

Citation: MRP, Section 322, page 10; Section 330, page 16 #14; Section 342, page 32, #7

Title: SUBSOIL TESTING

Objective: Regraded subsoil will be sampled on 500 ft intervals to a depth of four feet (three or four samples for the 2,000 linear feet in the facilities area). The samples will be analyzed on site for pH and EC. Problem areas will be further sampled and sent to a laboratory of analysis.

Frequency: At final regrading

Status: Ongoing at reclamation

Reports: Laboratory analysis to be provided to the Division

Citation: MRP, Volume 11, Section R645-301-231.300

Title: TOPSOIL HANDLING TESTING PLAN

Objective: Three composite samples will be taken from the facilities area and sediment pond. Samples will be analyzed for parameters to be compared with baseline information and to determine the need for amendments, including fertilizer.

Frequency: Final Reclamation

Status: Ongoing

Reports: Analysis to be provided to the Division

Citation: MRP, Volume 11, Section R645-301-242

Title: WASTE ROCK SITE RECLAMATION SAMPLING

Objective: Monitor chemical quality of upper four feet of final waste reclaimed surface at waste rock site.

Frequency: Grab samples within four feet of final elevation at a rate of two samples per acre per lift. Parameters as described.

Status: At final reclamation of waste rock cell.

Reports: Annual report

Citation: MRP, Volume 10, Chapter 7, page 7-5

Title: SOIL SAMPLING ON FINAL GRADED SURFACE

Objective: Monitor chemical quality of reclaimed substitute topsoil.

Frequency: Grab samples for pH and SAR as described.

Status: At final reclamation of mine facilities

Reports: Annual Report

Citation: MRP, Volume 2, Part 4, section 645-301-233.

Title: MACROINVERTEBRATE MONITORING

Objective: Monitor the macroinvertebrates in Rilda Creek

Frequency: Spring/fall two years prior to and spring/fall one year immediately following start of construction. Spring every three years during operations and reclamation.

Status: Construction complete in fall 2008. Spring and Fall 2009 surveys complete. 2011 surveys complete. Next survey expected in 2014

Reports: Annual Report

Citation: MRP, Volume 11, Biology Section, page 26.

Title: FISH SURVEYS

Objective: Monitor fish in Rilda Creek as part of annual surveys.

Frequency: Spring/fall two years prior to and spring/fall one year immediately following start of construction. Spring every three years during operations and reclamation.

Status: Construction complete in Fall 2008. Spring and Fall 2009 surveys complete. 2011 survey complete. 2014 is the anticipated date for the first of the three-year surveys.

Reports: Annual Report

Citation: MRP, Volume 11, Biology Section , page 26

OPERATOR COMMENTS (OPTIONAL)

Macroinvertebrate monitoring is due in 2014.

REVIEWER COMMENTS

REPORTING OF OTHER TECHNICAL DATA

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

Please list attachments:

Attachment A: Copy of Impoundment and Refuse Pile Reports
Attachment B: Vegetation Report 2013
Attachment C: Mine Production Maps
Attachment D: Roof, Rib, and Floor Samples, WRS Samples

The annual hydrology and subsidence reports are submitted as a separate volume.

Reviewer Comments

The submitted annual hydrology report includes a summary of climatological and hydrologic data for the year. Stiff diagrams of springs in the area were included as well as a discussion on water quality at required water monitoring locations. Other discussions in the report include a summary of mine discharge.(ad)

MAPS

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

Map Name	Map Number	Included		Confidential	
		Yes	No	Yes	No
Mine Map - Appendix C		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Reviewer Comments Met Requirements Did Not Meet Requirements

Mine maps were provided as part of the subsidence monitoring report. (JCO)