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DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
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Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

August 2, 2016

Kenneth S. Fleck, Manager of Geology and Environmental Affairs
Interwest Mining Company
P.O. Box 310
Huntington, Utah 84528

Subject: 2015 Annual Report Review Completion, Deer Creek Mine, C/015/0018, Task ID #5155

Dear Mr. Fleck:

The Division staff has completed the review of the 2015 Annual Report. Enclosed is a copy of the review with each reviewer's comments.

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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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	Interwest Mining Company	Phone Number	+1 (435) 687-9821
Mailing Address	P.O. Box 310	Email	ken.fleck@pacificorp.com
City	Huntington		
State	Utah	Zip Code	84528

DOGM File Location or Annual Report Location

Excess Spoil Piles	<input type="checkbox"/> Required <input checked="" type="checkbox"/> Not Required	
Refuse Piles	<input checked="" type="checkbox"/> Required <input type="checkbox"/> Not Required	
Impoundments	<input checked="" type="checkbox"/> Required <input type="checkbox"/> Not Required	Included in Attachment A
Other:		Sampling of Roof, Rib and Floor - Included in Attachment B

OPERATOR COMMENTS

Refuse pile inspection reports have been reported quarterly to the Division.

REVIEWER COMMENTS

Met Requirements Did Not meet Requirements

The annual report included copies of the quarterly inspection of the Refuse pile completed on: 3/26/15, 6/29/15, 9/22/16, and 12/17/15 for the Deer Creek pond and Rilda Canyon. The inspection reports were completed by Mark Reynolds, a Utah PE certified professional engineer. The construction of both sites has been completed for approximately 18 years. The field inspections state that all foundation preparation were completed according to design specification. An under drain was installed when the site was constructed in 1989. The slopes showed no signs of instability such as rills, gullies, or sloughage. The Permittee has addressed the requirements of this commitment. (CP)

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

Located in confidential file

Reviewer Comments Met Requirements Did Not Meet Requirements

4/29/16: LR: The raptor survey was performed as evidenced by data and flight map. I performed analysis to determine that the tended nest (2065) is barely outside the ½ mile buffer of the Rilda surface facilities. During closure, please note the 1/2 mile buffer area in case materials are flown in for portal closures. Flight-lines must stay outside of the buffer.

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

Included with this submittal as stand alone report.

Reviewer Comments Met Requirements Did Not Meet Requirements

The Permittee included a subsidence mine map, subsidence monitoring report and summary table with the annual report. The subsidence map shows the recorded subsidence contours for the Deer Creek Mine Area 27 and Area 28 as of the end of 2015. The subsidence monitoring report includes a summary table of predicted vs observed subsidence. The observed subsidence in Area 27 and Area 28, in Mill Fork were 7.2 ft and 13.1 ft respectively. The Permittee has addressed the requirements of this commitment. (CP)

Title: Wildlife

Objective: Adhere to wildlife exclusionary periods during reclamation activities

Frequency: During Reclamation

Status: Reclamation Pending

Reports: Not Required

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

Operator Comments

Reviewer Comments Met Requirements Did Not Meet Requirements

4/29/16: LR: Please keep wildlife exclusionary periods in mind while initiating reclamation plans.

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

Sampled December 2, 2014 and reported in 2014 Annual Report.

Reviewer Comments Met Requirements Did Not Meet Requirements

7/28/2016, PWB. Laboratory analysis of for soil sample locations 3 and 4 could not be found with the 2014 Annual Report (task 4857, received 3/27/2015). The 2014 Annual Report did provide field pH and field conductivity for two samples at two locations, but the laboratory analysis of parameters described in MRP, Volume 2, Part 4, section R645-301-233, page 2-3 could not be found.

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.

Reviewer Comments

Production Map is included with this report as Attachment C.

Please List Attachments

MAPS

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

Map Name	Map Number	Included		Confidential	
		Yes	No	Yes	No
Annual subsidence map	See Subsidence Report	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mine Map	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Raptor survey within permit boundary		<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"/>	<input type="checkbox"/>

Reviewer Comments Met Requirements Did Not Meet Requirements

The annual report meets the State of Utah R645 Hydrologic requirements for Water Monitoring. The Deer Creek annual report updates the 2015 Annual Hydrologic Report. The report summarizes the 2015 water year for the local and regional climate patterns. The quality and quantity of surface and groundwater is analyzed and summarized in narratives and graphs. KS

The Deer Creek Mine map included in the annual report shows the final year of mining operations at Deer Creek of the Hiawatha seam. The Permittee also included a 2015 Annual subsidence map showing the subsidence contours in the Mill Fork Canyon area. The Permittee has addressed the requirements of this commitment. (CP)