



Suzanne Steab <suzannesteab@utah.gov>

2018 Annual Report Review Completion

Suzanne Steab <suzannesteab@utah.gov>

Tue, Jun 11, 2019 at 2:04 PM

To: Jaren Jorgensen <jjorgensen@rhinolp.com>, Todd Miller <toddmiller@utah.gov>

The Division staff have completed the review of the 2018 Annual Report for the Bear Canyon Mine. Attached is a copy of the review with comments.

No hard copy will follow.

Thank you for your diligence in completing the Annual Report.

--

Suzanne Steab, Engineering Technician II
Division of Oil, Gas & Mining
1594 West North Temple, Suite 1210
Salt Lake City, Utah 84114-5801
(801) 538-5265



Bear Canyon.pdf

37K

2018 ANNUAL REPORT

Submit the completed document and any additional information identified to the Division by March 31, 2019.

GENERAL INFORMATION

Company Name	Castle Valley Mining, LLC	Mine Name	Bear Canyon Mine
Permit Number	C/015/0025	Permit Expiration Date	11-2-20
Operator Name	CASTLE VALLEY MINING	Phone Number	+1 (435) 687-2178
Mailing Address	P.O. Box 475	Email	jjorgensen@rhinolp.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 type="checkbox"/> Required <input checked="" type="checkbox"/> Not Required	
Impoundments	<input checked="" type="checkbox"/> Required <input type="checkbox"/> Not Required	Ponds A, B, C, D located in the google drive under Impoundments
Other:		

OPERATOR COMMENTS

REVIEWER COMMENTS Met Requirements Did Not Meet Requirements

The annual report meets the State of Utah R645 requirements for surface and groundwater monitoring.
The mine will notify the Division if mining will occur in the following areas: Leases U-46481; U-024316; T16N R8E Secs 7,17,18,19,20; Mine #4; Mohrland area, or portal opening accessing Leases U61048 or U-61049. Mining has not occurred in this respect for these areas, so monitoring sites associated with these areas will remain inactive. (KS, 5/29/2019)

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: SUBSIDENCE MONITORING**Objective:** Determine subsidence effects from mining**Frequency:** Annually**Status:** Ongoing**Reports:** Submit surveyed monitoring data to the Division annually. **Please include a map showing the location of the subsidence points in relationship to the underground workings.****Citation:** Chapter 5, Appendix 5C, page 5c-8**OPERATOR COMMENTS**

Map included in Google Drive marked Subsidence 2018

REVIEWER COMMENTS

Met Requirements



Did Not Meet Requirements

A subsidence report compiled by Ware Surveying & Engineering documents the subsidence induced displacement for 41 points located at various different locations within the permit area. Some of the surveyed locations do not display any movement but most points show evidence of having moved very slightly. None of the surveyed points exceeded one inch of vertical displacement. Two subsidence maps have been included that illustrate the locations of the surveyed subsidence locations in relation to the underground workings. JE

Title: WILDLIFE AWARENESS PROGRAM**Objective:** To inform employees of the wildlife and the need for protection in the mine facilities and access road areas.**Frequency:** As needed**Status:** Ongoing**Reports:** Summary in Annual Report**Citation:** Chapter 3, page 3-45**OPERATOR COMMENTS**

Our employees are aware of our wildlife here in Bear Canyon. Wildlife Awareness Program included in our annual training.

REVIEWER COMMENTS

Met Requirements



Did Not Meet Requirements

Rhino Energy informs their employees about the protection of wildlife at and near the mining facilities as needed for new employees and staff. TM

Title: IDENTIFICATION OF NEW CULTURAL RESOURCES

Objective: If during the course of mining operations, previously unidentified cultural resources are discovered, Permittee shall ensure that the site(s) is not disturbed and notify the Division. The Division shall inform the Permittee of necessary actions required.

Frequency: The Permittee shall implement the mitigation measures required by the Division within the time specified by the Division.

Status: Ongoing

Reports: Annual

Citation: Chapter 4, page 4-15

OPERATOR COMMENTS

Our employees are aware that if unidentified cultural resources are discovered, that the site will not be disturbed and notify the Division.

REVIEWER COMMENTS



Met Requirements



Did Not Meet Requirements

Rhino Energy informs their employees about the identification and protection of cultural resources at and near the mining facilities as needed for new employees and staff. TM

Title: RAPTOR SURVEYS

Objective: Verify presence of nesting birds and status of nests. Raptor surveys will be conducted every year during the mine life. Include follow-up surveys if conducted.

Frequency: Annually

Status: Ongoing

Reports: Annual

Citation: Chapter 3, page 3-70

OPERATOR COMMENTS

RAPTOR SURVEYS INCLUDED IN GOOGLE DRIVE MARKED RAPTOR SURVEY 2018

REVIEWER COMMENTS



Met Requirements



Did Not Meet Requirements

Raptor surveys were completed in April of 2018 by EIS biologists. 13 of the 20 surveyed nests were located, none of which were active, and no new nests were discovered in 2018. TM

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: VEGETATION MONITORING PROCEDURES

Objective: Qualitative observations of revegetated areas will be made yearly throughout the 10 year liability period.

Frequency: Quantitative measurements of reclamation will be collected during years 2,3,5,9 and 10 of the same bond liability period. Any areas not achieving success will be evaluated and revegetated as needed.

Status: Begin at reclamation

Reports: Annual Report

Citation: Chapter 3, Page 3-41

Title: SEALING OF WELLS

Objective: Permanent closure of wells using measures required by DOGM to prevent access and contamination of groundwater.

Frequency: Once, as wells are no longer needed.

Status: Wells are in use until no longer needed.

Reports: Report status when mining is terminated or wells no longer needed.

Citation: Chapter 6, page 6-10

Title: DETAILED REVEGETATION PLAN

Objective: The Permittee will submit a detailed revegetation plan in the last five year permit renewal prior to reclamation.

Frequency: Once during last five year permit renewal prior to reclamation.

Status: During last permit renewal prior to reclamation.

Reports: NA

Citation: Chapter 3, page 3-46

Title: ANALYSIS FOR RE-INITIATION OF SAMPLING SITES

Objective: Notify DOGM of any reactivation of water sampling stations if mining is to occur in the following areas: Leases U-46481, U-024316, T16N R8E Secs 7, 17, 18, 19, 20, Mine #4, Mohrland area, or portal opening accessing Leases U61048 or U61049

Frequency: Sampling to initiate at least 6 months prior to mining these areas

Status: Ongoing

Reports: Notify Division in Annual Report if mining is to occur

Citation: Chapter 7, page 7-49

Title: SUBSTITUTE TOPSOIL TESTING

Objective: To confirm the suitability of substitute topsoil prior to reclamation

Frequency: Within 5 years prior to reclamation

Status: Future Commitment

Reports: Proposed substitute topsoil that is designated by reclamation area in Summary Table 2-8 and further described in Appendix 5-1 will be re-tested in the final five years of operations according to Table 5O-1 and testing will include total petroleum hydrocarbons by EPA methods 8015 and 418.1

Citation: Chapter 2, page 2-35

REPORTING OF OTHER TECHNICAL DATA

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

Please list attachments:

REVIEWER COMMENTS Met Requirements

Did Not Meet Requirements

The annual report meets the State of Utah R645 requirements for Impoundments. The annual report provides impoundment inspections for all sediment ponds at the Bear Canyon mine. The sediment ponds are inspected and certified by J. T. Paluso P.E. The sediment elevation in Sediment Pond A is over five feet below the 60% cleanout level and the embankment is in good order. Sediment Pond B was recently cleaned out and is well below the 60% cleanout level. Only a couple inches of water are in Sediment Pond C. Sediment Pond D was dry with very little sediment. Each impoundment showed no sign of structural instability or other hazardous conditions. (KS, 4/11/2019)

