



Suzanne Steab <suzannesteab@utah.gov>

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## 2017 Annual Report Review Completion

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To: Jaren Jorgensen <jjorgensen@rhinolp.com>  
Cc: "Helfrich, Joe" <joe Helfrich@utah.gov>

Tue, Jun 12, 2018 at 1:23 PM

The Division staff completed the review of the 2017 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.

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 **Bear Canyon2.pdf**  
46K

# 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	Rhino Energy	Mine Name	Bear Canyon Mine
Permit Number	C/015/0025	Permit expiration Date	2020-11-02
Operator Name	Castle Valley Mining	Phone Number	+1 (435) 687-2178
Mailing Address	PO BOX 475	Email	jjorgensen@rhinolp.com
City	Huntington		
State	UT	Zip Code	84528

## DOGMM 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	Separate Document marked CVM Impoundments 2017
Other:		

## OPERATOR COMMENTS

Castle Valley Mining does not have excess spoil piles or refuse piles. Impoundment ponds A, B, C, D are attached and certified marked CVM Impoundments 2017.

## REVIEWER COMMENTS

Met Requirements  Did Not meet Requirements

# FUTURE COMMITMENTS AND CONDITIONS

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

**Title: VEGETATION MONITORING PROCEDURES**

**Objective:** Qualitative observations of revegetated areas will be made yearly throughout the ten year liability period. (See R645-301-250).

**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:** Annually after reclamation

**Citation:** Chapter three, page 3-41, paragraph 1

**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:** MRP, Chapter 6, page 6-10.

**Title: DETAILED REVEGETATION PLAN**

**Objective:** The Operator will submit a detailed revegetation plan in the last Five year permit renewal prior to reclamation. The plan will include detailed map(s) of sufficient scale to show exact areas and methods of revegetation (i.e. drill seeding, terraces, netting, etc.) based on the best technology available and final mine site conditions.

**Frequency:** Once during last five year permit renewal prior to reclamation. the operator will notify the Division two weeks prior to all seeding work (interim or permanent) to allow the Division to be on site when work is done.

**Status:** During last permit renewal prior to reclamation.

**Reports:** NA

**Citation:** Chapter 3, page 3-46, paragraph 2.

**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 U-61049.

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

**Status:** Ongoing

**Reports:** Notify Division in Annual report in mining is to occur.

**Citation:** Chapter 7, p 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:** MRP, Chapter 2, Section R645-301-241, p 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:

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 U-61049.

## REVIEWER COMMENTS

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 is not planned for these areas at this time, so monitoring sites associated with these areas will remain inactive. (KS, 6/4/2018)

# 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		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mine Map- see comments below		<input checked="" 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"/>
		<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 requirements for Mine Maps as outlined in the State of Utah R645-301-521. Attached are maps illustrating 5 year mining projections for the Tank, Blind, and Bear Canyon seams. Additionally, maps defining subsidence monitoring points in relation to underground workings are also included. JE

# 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:** On going

**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:** MRP Chapter 5, Appendix 5C, pg 5c-8

### OPERATOR COMMENTS

Subsidence Survey completed in November 2017 by Ware Surveying. Separate document marked CVM subsidence 2017.

**REVIEWER COMMENTS**     Met Requirements                       Did Not Meet Requirements

A map illustrating the locations of subsidence monitoring sites in relation to the planned mine workings is included in this report. Also attached is a 2017 subsidence report prepared by Ware Surveying and Engineering detailing the elevations of 44 subsidence points compared to the results of a 2016 survey of the same points. The maximum amount of subsidence recorded by this survey was just over 2.5 inches. 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 three, page 3-45, paragraph 2.

### OPERATOR COMMENTS

We have annual training here at the mine. Wildlife awareness is part of that program. Also we have monthly meetings where this is a topic as well. Any special training DOGM is willing to give us at Castle Valley we will be willing to accept.

**REVIEW COMMENTS**

Met Requirements

Did Not Meet Requirements

Rhino Energy keeps their employees informed about the protection of wildlife at and near the mining facilities as needed for new employees and monthly for the current staff.

**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 shall notify the Division of Oil, Gas, and Mining. The Division, after coordination with OSM, 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:** MRP, Chapter 4, Section 411.144, page 4-15

**OPERATOR COMMENTS**

The identification of new cultural resources will not be disturbed and Castle Valley Mining will notify DOGM. This is being followed on a daily basis here at Castle Valley. any special training DOGM is willing to give us at Castle Valley we will be willing to accept.

**REVIEWER COMMENTS**

Met Requirements

Did Not Meet Requirements

No new cultural resources have been identified within the last year.

**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 for the life of the mine.

**Status:** Ongoing

**Reports:** Annual

**Citation:** Chapter three, page 3-70, paragraph 2.

**OPERATOR COMMENTS**

Separate document marked CVM raptor surveys confidential.

**REVIEWER COMMENTS**



Met Requirements



Did Not Meet Requirements

Raptor Surveys: The 2017 Raptor survey was completed on 4/17/2017-5/19/2017 by company representative Jaren Jorgensen and Joe Via of EIS. Map & data provided in the CVM Google Drive.