



Suzanne Steab <suzannesteab@utah.gov>

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## 2018 Annual Report Review Completion

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**Suzanne Steab** <suzannesteab@utah.gov>  
To: "Madsen, Karin" <kmadsen@coalsource.com>

Thu, Jun 20, 2019 at 3:21 PM

Hello Karin,

The Division staff have completed the review of the 2018 Annual Report for the Centennial 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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 **Centennial.pdf**  
36K

# 2018 ANNUAL REPORT

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

## GENERAL INFORMATION

Company Name	Andalex Resources Inc	Mine Name	Centennial Mine
Permit Number	C/007/0019	Permit Expiration Date	1-4-22
Operator Name	Andalex Resources	Phone Number	+1 (435) 888-4000
Mailing Address	PO Box 910	Email	kmadsen@coalsource.com
City	East Carbon		
State	UT	Zip Code	84520

## DOG M 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	Annual pond certifications included
Other:		

## OPERATOR COMMENTS

Tower Mine was inactive during 2018

**REVIEWER COMMENTS**     Met Requirements     Did Not meet Requirements

3/19/2019, PB. The site has been in temporary cessation since April 2008 (2008 Incoming document 0008).

# 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:** Provide annual subsidence monitoring data, map and report of impacts in annual report.

**Citation:** Volume 1, Chapter 5, Page 5-150a, 5-151

**OPERATOR COMMENTS**

Subsidence monitoring was completed by Ware Surveying and is included in annual report.

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

A differential level subsidence survey was completed by Ware Surveying & Engineering on November 9, 2018. The accompanying report documents the subsidence induced displacement for dozens of points located at various different locations within the permit area. Most of the surveyed locations do not display any movement but a few show evidence of having moved very slightly. None of the surveyed points that moved exceeded one inch of vertical displacement. JE

**Title: GAS VENT HOLE STATUS UPDATE**

**Objective:** To keep the Division apprised of the status of all wells drilled above the Aberdeen mine including any future venting of existing wells and/or development of non GVH pads and to ensure that reclamation of each disturbance is accomplished in a timely manner once the wells are no longer in use. "Provide a spreadsheet showing the progress of reclamation at each drill pad, indicating the date of interim or final grading; the date of seeding and mulching; stating whether the well is still producing; stating whether there is Blue Tip equipment (solar arrays, valves) still on site.

**Frequency:** Annually

**Status:** Ongoing

**Reports:** Annual Report

**Citation:** Appendix X, page 1-2

**OPERATOR COMMENTS**

The GVH Report is included. Entire site was treated for noxious weeds in both spring and fall of 2018. No major changes made in 2018.

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

3/19/2019, PB. The GVH report states GVH sites 1, 5, 12, and 14 are eligible for Phase II bond release. The supporting vegetation survey is located in the 2017 Annual Report. The GVH report states that GVH sites 13, 15, 16, and 17 will be eligible for Phase I bond release after the vertical culvert is removed. Removal of the vertical culverts, the report states, is the responsibility of Liberty Pioneer (Operating Agreement Appendix X, Attach 1-1). The report states that the compressor station is separate from the GVH project. Liberty Pioneer's responsibility for the compressor station was reviewed and found deficient with Task 5767 (Outgoing 12/20/2018). The status report identifies GVH 3, GVH 7, GVH8A, GVH 9, and GVH 11 as wells that are capable of production. No wells are currently in production. In 2018, gas leaks were sealed at GVH 5A, 7, and 9. The degas wells were the subject of NOV/CO 21214 written 6/1/2019. NOV 21214 was terminated 2/12/2018 in accordance with items 3a and 3b of the "Amended Stipulation and Joint Motion to Stay

Proceedings..." (filed with the Board of Oil Gas & Mining 11/21/2018). Reclamation of degas wells and pad sites shown on Figure 1-1, as modified by the Informal Conference Order dated 8/27/2018, is addressed by Division Order 19A.

# 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: SAGE GROUSE NEST SITE EVALUATION**

**Objective:** Prior to development of the well site, a Sage Grouse nest site evaluation will be conducted by a knowledgeable wildlife biologist. If nests are located, an alternative drill site location will be determined.

**Frequency:** Based on the need to drill additional de-gas wells.

**Status:** Required in future if new de-gas wells are proposed.

**Reports:** Send with application

**Citation:** Appendix X, Chapter 3, page 3-5, paragraph 1

## **Title: RECLAMATION SUCCESS**

**Objective:** Determine reclamation success.

**Frequency:** Reclaimed areas will be qualitatively monitored monthly for the first two growing seasons following reclamation. Quantitative veg analysis will be completed in years 5, 9 and 10. In year 7, a consultation with DOGM will determine if an additional inventory might be necessary.

**Status:** Check at reclamation.

**Reports:** When monitoring commences.

**Citation:** Chapter 3, page 3-17

## **Title: RECLAMATION ENHANCEMENT MEASURES**

**Objective:** Andalex will consult with the Division of Wildlife Resources, at the time of final reclamation, to determine exactly what reclamation designs, planting arrangements, and artificial structures would best enhance wildlife habitat.

**Frequency:** Once

**Status:** Will be required prior to final reclamation

**Reports:** Report reclamation plans to Division for incorporation into MRP

**Citation:** Volume 1, Chapter 3, page 3-23, paragraph 1

## **Title: SEALING OF WELLS**

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

**Frequency:** When wells are no longer needed.

**Status:** Throughout mining

**Reports:** Report in Annual report the year when wells are completed.

**Citation:** Gob Gas Vent Wells: Appendix X R645-301.542.700 All other exploration and water wells: MRP - 301.529.100 301.755

# 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 Centennial mine. The sediment ponds were inspected on 10/24/2018 by Karin Madsen and certified by J. Thomas Paluso P.E. The sediment elevations within the ponds are below the 60% cleanout level and all the embankments were in good order. (KS, 5/29/2019)

