



Suzanne Steab <suzannesteab@utah.gov>

Centennial 2019 Annual Report

Suzanne Steab <suzannesteab@utah.gov>

Wed, May 27, 2020 at 2:10 PM

To: "Madsen, Karin" <kmadsen@coalsource.com>

Cc: "Christensen, Steve" <stevechristensen@utah.gov>, Justin Eatchel <jeatchel@utah.gov>

Hello Karin,

The requirements have all been met for the Centennial 2019 Annual Report.

Attached is the revised Annual Report form.

Thank you!

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 **05272020.6092.pdf**
36K

2019 ANNUAL REPORT

Submit the completed document and any additional information identified to the Division by March 31, 2020.

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

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	Annual Pond Certifications included
Other:		

OPERATOR COMMENTS

Tower Mine was inactive during 2019.

REVIEWER COMMENTS

Met Requirements Did Not meet Requirements

The fourth quarter and annual 2019 sediment pond inspections were done on 12/26/2019. (KRH) 4/1/2020, PB. The mine has been inactive since Notice of Temporary Cessation was received in April 2008 (Incoming document 0008.pdf).

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 the report is included.

REVIEWER COMMENTS Met Requirements Did Not Meet Requirements

A differential level subsidence survey was completed by Ware Surveying & Engineering on November 15, 2019. 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.

REVIEWER COMMENTS Met Requirements Did Not Meet Requirements

A revised GVH report, received 5/4/2020, states that removal of vertical culverts is the responsibility of Liberty Pioneer (Operating Agreement Appendix X, Attach 1-1). The State of Utah R645 Rules state that all surface equipment and structures will be removed in reclamation.

The GVH 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). There has been no response to date.

The GVH report describes remaining structures at GVH sites 1, 3, 4, 5, 5A, 6, 7, 7A, 12, 13, 14, 15, 16, and 17. All sites graded in 2019 (GVH sites 3, 4, 5A, 6, 7, 7A, & 11) were seeded by May 19, 2020 (personal communication with K Madsen 5/19/2020). The seed mix was

added to the annual report information and sent to the file 5/18/2020. State of Utah R645 Rules state that the responsibility period does not begin until seeding is completed (R645-301-357).

The GVH report identifies sites GVH 8, GVH8A, GVH 9 as capable of production. Well valves remain at these sites. The wells are temporarily capped. No wells are currently in production.

All sites were treated for weeds in 2019.

The GVH report states that sites 5B, 10 and were not constructed but were considered in the bonding.

A spreadsheet titled, GVH Reclamation, received on 5/15/2020 presents the current status of each well for quick reference, including those temporarily capped. All CMP structures were removed from final graded sites in May 2020 (personal communication with K. Madsen, 5/19/2020). Therefore, the spreadsheet indicates that all reclaimed sites are eligible for Phase 1 and Phase 2 bond release. To be clear, an application for bond release has not been received.

5/27/2020, PB.

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

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	included	<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"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

REVIEWER COMMENTS Met Requirements Did Not Meet Requirements

A mine map for the Aberdeen Mine has been provided and displays all of the development mining and longwall panels associated with the production of coal during the time the mine was active. As stated on the map, the mine did not produce coal in 2019. Overburden isopach contours drawn over the underground workings indicate that the longwall panels located on the northern extremes of the permit area were coming under 3,000 feet of cover. Also identified on this map are the locations of the gob gas vent holes, although names of the holes cannot be read because the font is blurry and illegible. The map has been stamped and signed on 3/17/2020 by J. Thomas Paluso, Professional Engineer in the State of Utah. JE