

## OGMCOAL - Centennial (Tower) Mine Inspection Report

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**From:** April Abate  
**To:** Dave Shaver  
**Date:** 8/4/2011 1:48 PM  
**Subject:** Centennial (Tower) Mine Inspection Report  
**CC:** Daron Haddock; OGMCOAL@utah.gov  
**Attachments:** 0070019 CentennialinspectionReport 8.2.2011.pdf; April Abate.vcf

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Hello Dave,

Here is a copy of the inspection report from the Division's August 2, 2011 field visit. As we discussed up on the mountain, we will be issuing an NOV based on the failure to control sediment and the presence of noxious weeds at GVH-6. I will also add some additional language based on some other corrective actions dealing with road drainage and berm maintenance identified at GVH-11 and GVH-12.

Is there a date that you would like to propose for continuing the inspection next week? I am open any day Monday - Thursday.  
Let me know what will work for you....

April

**April A. Abate**

*Environmental Scientist III*

Division of Oil, Gas and Mining

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GARY R. HERBERT  
Governor

GREG BELL  
Lieutenant Governor

# State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

## Inspection Report

Permit Number:	C0070019
Inspection Type:	TECHNICAL
Inspection Date:	Tuesday, August 02, 2011
Start Date/Time:	8/2/2011 10:30:00 AM
End Date/Time:	8/2/2011 2:30:00 PM
Last Inspection:	Tuesday, July 26, 2011

Representatives Present During the Inspection:	
OGM	April Abate
OGM	Daron Haddock
Company	Scot Campbell
Company	Dave Shaver

Inspector: April Abate.

Weather: Clear, High 80's F

InspectionID Report Number: 2817

Accepted by:

Permitee: **ANDALEX RESOURCES INC**

Operator: **ANDALEX RESOURCES INC**

Site: **CENTENNIAL MINE**

Address: **PO BOX 910, EAST CARBON UT 84520-0910**

County: **CARBON**

Permit Type: **PERMANENT COAL PROGRAM**

Permit Status: **ACTIVE**

### Current Acreages

6,528.83	<b>Total Permitted</b>
47.19	<b>Total Disturbed</b>
	<b>Phase I</b>
	<b>Phase II</b>
	<b>Phase III</b>

### Mineral Ownership

- Federal
- State
- County
- Fee
- Other

### Types of Operations

- Underground
- Surface
- Loadout
- Processing
- Reprocessing

### Report summary and status for pending enforcement actions, permit conditions, Division Orders, and amendments:

The purpose of the inspection was to evaluate the gas vent wells above the mine to determine the current productivity and maintenance status of the wells. These wells represent disturbed ground regulated under the DOGM permit and require inspection. In addition, the inspection was carried out as part of an annual commitment between DOGM and Andalex (Appendix X, page 1-2).

Inspector's Signature

April Abate,

Inspector ID Number: 60

Date Thursday, August 04, 2011



**Note:** This inspection report is issued on the basis of information provided by the permittee and is not intended to be a guarantee of compliance with the regulatory program of the Division of Oil, Gas and Mining. telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • www.ogm.utah.gov

**REVIEW OF PERMIT, PERFORMANCE STANDARDS PERMIT CONDITION REQUIREMENTS**

1. Substantiate the elements on this inspection by checking the appropriate performance standard.
  - a. For COMPLETE inspections provide narrative justification for any elements not fully inspected unless element is not appropriate to the site, in which case check Not Applicable.
  - b. For PARTIAL inspections check only the elements evaluated.
2. Document any noncompliance situation by reference the NOV issued at the appropriate performance standard listed below.
3. Reference any narratives written in conjunction with this inspection at the appropriate performance standard listed below.
4. Provide a brief status report for all pending enforcement actions, permit conditions, Divison Orders, and amendments.

	Evaluated	Not Applicable	Comment	Enforcement
1. Permits, Change, Transfer, Renewal, Sale	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Signs and Markers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Topsoil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.a Hydrologic Balance: Diversions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.b Hydrologic Balance: Sediment Ponds and Impoundments	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.c Hydrologic Balance: Other Sediment Control Measures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.d Hydrologic Balance: Water Monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.e Hydrologic Balance: Effluent Limitations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Explosives	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Disposal of Excess Spoil, Fills, Benches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Coal Mine Waste, Refuse Piles, Impoundments	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Noncoal Waste	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Protection of Fish, Wildlife and Related Environmental Issues	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Slides and Other Damage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Contemporaneous Reclamation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Backfilling And Grading	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Revegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
14. Subsidence Control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Cessation of Operations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16.a Roads: Construction, Maintenance, Surfacing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16.b Roads: Drainage Controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Other Transportation Facilities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. Support Facilities, Utility Installations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19. AVS Check	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. Air Quality Permit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. Bonding and Insurance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22. Other	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

## **1. Permits, Change, Transfer, Renewal, Sale**

Oso Energy currently leases the gob vent hole (GVH) wells from Andalex Resources for the purposes of extraction and capture of methane gas. Attachment 1-1 in the Mining and Reclamation Plan for the Centennial mine includes the lease agreement between OSO Energy and Andalex Resources. Page 2, Part 2.3 of the agreement summarizes the regulatory responsibilities of each entity. As stated in the agreement, the GVH wells are currently regulated under the mining program until such time that the jurisdiction transfers to the Oil and Gas program. To date, the Division has not been informed that jurisdiction of the wells has transferred over and therefore, the agreement as it is written appears to be binding.

## **13. Revegetation**

Reclaimed well sites # 1 and # 5 were inspected for presence of noxious weed musk thistle and the effectiveness of last years soil enhancement and seeding. Well site #1 had an abundance of musk thistle and other weedy species including houndstongue, mullein and stickseed. These species were reduced from last years spraying. Desirable vegetation was lacking. Some grasses were present but virtually no forbs or shrubs were present in the site except for volunteers on the edges. Site #5 had much more desirable vegetation including artemesia tridentata, penstemon, achillea millefolium, sweetvetch, and grass species. his site still has an abundance of mullein, houndstongue, stickseed and mush thistle. Both sites have been heavily grazed by cattle. The Division recommends that both sites reduce grazing and control musk thistle and other weedy species by hand removal of seed heads and herbicide application immediately. his site still has an abundance of mullein, houndstongue, stickseed and mush thistle. Both sites have been heavily grazed by cattle. The Division recommends that both sites reduce grazing and control musk thistle and other weedy species by hand removal of seed heads and herbicide application immediately. Unreclaimed well sites #6, 11, 13 and 3 were also inspected. All of these sites had musk thistle. The division recommends hand removal of seed heads and herbicide application on musk thistle on all sites immediately. Control of musk thistle should also occur on access roads and other areas of the permit area to avoid spread.

## **22. Other**

GVH Wells 1, 3, 5, 5A, 6, 11,12, 13 were inspected. Waypoint data were collected at each location. Shane Campbell (not Scot) representing Scamp construction explained that Oso is not currently conducting venting operations at the wellsites due to market conditions and transportation logistical issues. GVH-1 is a reclaimed well site. Grasses were observed to be growing but needed another spray for weeds. Surface was roughened and fence was relocated along the reclaimed pad boundary. Cows were observed grazing on site. GVH-5 is a reclaimed well site. Site was roughened with pocks and grasses were observed to be growing. The site was hydroseeded last year and mulched. Cows were observed grazing on the site. The remaining wells inspected were all active wells but none were currently being operated by Oso. GVH-5A: The pad was bermed on the southeast, south and west sides. No indications of erosion. GVH-6: This well pad had a significant amount of Thistle growing on the well pad and along the road leading up to the well pad. The road itself had significant rills in it. Rilling was also observed on the slope above the well pad. The berm around the well pad was shown to have breaks within it. As a result, sediment was migrating off the pad area. GVH 11: Road leading to the well also exhibited rilling and needed maintenance. GVH-12: Minor cuts in the berm observed, needed maintenance. GVH-13: no erosion or drainage issues were observed. GVH-3 no drainage or erosion issues were observed. Explained to Mr. Shaver that an NOV would be issued based on the failure to maintain sediment controls observed at GVH-6. Weed control was needed at several of the sites. Road and ditch corrective actions are also needed at the GVH-11 site and minor berm maintenance issues at the GVH-12 pad. The Division discussed scheduling a continuation of the inspection at the remaining well sites in the coming weeks.