

ANDALEX RESOURCES, INC.  
CENTENNIAL PROJECT  
007/019

CHANGE TO  
THE MINING AND RECLAMATION PLAN

TASK 2766 and  
TASK 2826

***RESPONSE TO "STAND-ALONE" DEFICIENCIES***

***CONSISTING OF:***

***CLARIFICATION OF LEASE ACREAGE***

***&***

***AIR QUALITY APPROVAL***

***NOTE: THESE DEFICIENCIES WERE CITED BY  
PRISCILLA BURTON AS PART OF THE LATEST GVH  
AMENDMENT***

Task 2766 submitted: July 11, 2007

Task 2826 submitted: March 8, 2008

File in:

Confidential

Shelf

Expandable

Refer to Record No. 0003 Date 03072008

In C 0070019, 2008, Incoming

For additional information

COVER LETTER

C1/C2

File in:

Confidential

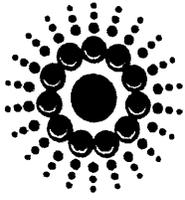
Shelf

Expandable

Refer to Record No. 0003 Date 03072008

In C10070019, 2008 Incoming

For additional information



**ANDALEX**  
RESOURCES, INC.

P.O. BOX 902  
PRICE, UTAH 84501  
PHONE (435) 637-5385  
FAX (435) 637-8860

Pamela Grubaugh-Littig and Wayne Hedberg  
Permit Supervisors  
Utah Division of Oil, Gas & Mining  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801

July 10, 2007

Re: Centennial Project  
C/007/019  
Response to Task 2766

Dear Ms. Littig and Mr Hedberg:

Enclosed are 6 each copies of the response to the Task 2677. These are the "stand-alone" deficiencies cited by Priscilla Burton as part of the latest GVH amendment. These deficiencies involve cleaning up the lease acreage summary, and the air quality approval order.

Please note that I have taken this opportunity to update all of Chapter 1, and in particular the Ownership and Control section (now included as Appendix 1, Part 1), the Current and Previous Coal Mining Permits section (now included as Appendix 1, Part 2), and the Violation Information (now included as Appendix 1, Part 3). Appendix 1 is a new appendix specifically devoted to Chapter 1 issues, and consolidates some of the previous material that was scattered throughout several unrelated appendices. These changes are defined in the attached C2 form. At such time as these changes are approved and ready for incorporation I would like to assist the Division staff in updating the MRP in order to eliminate any confusion with the new arrangement.

If you have questions or comments please contact me at 435-888-4017.

Sincerely,

Dave Shaver  
Resident Agent

## APPLICATION FOR PERMIT PROCESSING

<input type="checkbox"/> Permit Change	<input type="checkbox"/> New Permit	<input type="checkbox"/> Renewal	<input type="checkbox"/> Transfer	<input type="checkbox"/> Exploration	<input type="checkbox"/> Bond Release	Permit Number: <b>C/007/019</b>
Title of Proposal: <b>Response to Task 2766</b>						Mine: <b>Centennial Project</b>
						Permittee: <b>ANDALEX Resources, Inc.</b>

Description, include reason for application and timing required to implement.

Instructions: If you answer yes to any of the first 8 questions (gray), submit the application to the Salt Lake Office. Otherwise, you may submit it to your reclamation specialist.

<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	1. Change in the size of the Permit Area? _____ acres Disturbed Area? _____ acres <input type="checkbox"/> increase <input type="checkbox"/> decrease.
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	2. Is the application submitted as a result of a Division Order?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	3. Does application include operations outside a previously identified Cumulative Hydrologic Impact Area?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	4. Does application include operations in hydrologic basins other than as currently approved?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	5. Does application result from cancellation, reduction or increase of insurance or reclamation bond?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	6. Does the application require or include public notice/publication?
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	7. Does the application require or include ownership, control, right-of-entry, or compliance information?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	8. Is proposed activity within 100 feet of a public road or cemetery or 300 feet of an occupied dwelling?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	9. Is the application submitted as a result of a Violation?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	10. Is the application submitted as a result of other laws or regulations or policies? Explain:
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	11. Does the application affect the surface landowner or change the post mining land use?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	12. Does the application require or include underground design or mine sequence and timing?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	13. Does the application require or include collection and reporting of any baseline information?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	14. Could the application have any effect on wildlife or vegetation outside the current disturbed area?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	15. Does application require or include soil removal, storage or placement?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	16. Does the application require or include vegetation monitoring, removal or revegetation activities?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	17. Does the application require or include construction, modification, or removal of surface facilities?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	18. Does the application require or include water monitoring, sediment or drainage control measures?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	19. Does the application require or include certified designs, maps, or calculations?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	20. Does the application require or include subsidence control or monitoring?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	21. Have reclamation costs for bonding been provided for?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	22. Does application involve a perennial stream, a stream buffer zone or discharges to a stream?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	23. Does the application affect permits issued by other agencies or permits issued to other entities?

Attach 3 complete copies of the application.

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments, undertakings, and obligations, herein. (R645-301-123)

Signed - Name - Position - Date \_\_\_\_\_

Subscribed and sworn to before me this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

My Commission Expires: \_\_\_\_\_  
 Attest: Notary Public STATE OF \_\_\_\_\_ COUNTY OF \_\_\_\_\_ }  
 ) ss: \_\_\_\_\_

Received by Oil, Gas & Mining

ASSIGNED TRACKING NUMBER

## Application for Permit Processing Detailed Schedule of Changes to the MRP

Title of Application:  
Response to Task 2766

Permit Number: C/007/019

Mine: Centennial Project

Permittee: ANDALEX RESOURCES

Provide a detailed listing of all changes to the mining and reclamation plan which will be required as a result of this proposed permit application. Individually list all maps and drawings which are to be added, replaced, or removed from the plan. Include changes of the table of contents, section of the plan, pages, or other information as needed to specifically locate, identify and revise the existing mining and reclamation plan. Include page, section and drawing numbers as part of the description.

			DESCRIPTION OF MAP, TEXT, OR MATERIALS TO BE CHANGED
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Chapter 1 List of Appendices Iviii
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Chapter 1 text: all
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Figure 1-2
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	
<input checked="" type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Appendix 1, Part 1 Ownership + Control
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	
<input checked="" type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Appendix 1, Part 2 Current and Previous Coal Mining Permits
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	
<input checked="" type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Appendix 1, Part 3 Violation Information
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	
<input checked="" type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Air Quality Approval Order
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	This should be added to Appendix 1
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	

Any other specific or special instructions required for insertion of this proposal into the Mining and Reclamation Plan?

CHAPTER 1

TEXT

## List of Appendices

<u>Appendix</u>	<u>Title</u>
1, Part 1	Ownership and Control
1, Part 2	Current and Previous Permits
1, Part 3	Violation Information
A	Wildlife Resources Information
B	Permits, Insurance & Bond
C	Archaeologic Information
D	Raptor Survey
E	Detailed Description of Coal and Other Strata
F	Emissions Inventory
G	Wastewater Disposal System
H	Analysis of Non-Coal Waste
I	Powerline and Sub-Station Design
J	Other Approvals
K	Slope Stability Investigation
L	Hydrology - Surface and Ground Water Inventory
M	Soil Survey and Vegetation Inventory
N	Applied Hydrology and Sedimentology for Disturbed Areas
O	Culvert Systems Analysis
P	Cross-Reference to R645 Rules
Q	Waste Rock Disposal Plan - Wildcat
R	Letters to Surface Owners
S	SPCC Plan
T	Subsidence Monitoring
U	LOM / BLM - R2P2
V	Left Fork Fan - Slope Stability and Vegetation Sampling
W	Coal Lease Modification - 66060
X	Gob Vent Holes
Y	Ventilation Shaft/Blowing Fan Installation

**ANDALEX RESOURCES, INC.**

**TOWER DIVISION**

**MINING AND RECLAMATION PLAN**

**CHAPTER 1, LEGAL**

# CHAPTER 1, LEGAL

## R645-301-100. GENERAL

The Mathis Tract and new Federal Summit Creek Lease Boundary Change is simply an extension of our underground mine workings and will in no way involve any new surface facilities or otherwise have any affect on the surface. It does not involve any new hydrologic basins. Refer to R645-301-200 through R645-301-800 for additional information.

## R645-301-110. LEGAL, FINANCIAL, AND COMPLIANCE INFORMATION

### Legal, Financial, Compliance and Information

The objective of this chapter is to set forth all relevant information concerning ownership and control of Andalex Resources, Inc., the ownership and control of the property to be affected by mining activities and all other information and documentation required.

Please note that right-of-entry information for all new Leases is included in Appendix J, "Other Approvals". This includes the short form of the Mathis lease recorded at Carbon County.

### Compliance Information

#### a) Suspension and Revocation

Andalex Resources, Inc., affiliates or persons controlled by or under common control with Andalex haven't had a mining permit suspended or revoked within the last five years.

#### b) Forfeiture of Bond

Andalex Resources, Inc., affiliates or persons controlled by or under common control with Andalex have not forfeited a mining bond or similar security in lieu of bond.

#### c) History of Violations

Appendix B contains a listing of all violations received within the last three years prior to the date of this application by Andalex and affiliated companies.

### Overview and Summary of Project

Mining operations at the Pinnacle Mine began in the Gilson Seam on October 3, 1980, according to the Mining and Reclamation Plan approved by the State of Utah, Department of Natural Resources, Division of Oil, Gas, and Mining. The mining began on the Zion's fee lease and extended onto Andalex's federal leases according to federal approval granted in 1982. Andalex also opened the Apex Mine in the Lower Sunnyside Seam late in 1982. Mining commenced in the Aberdeen Mine in the Aberdeen Seam in mid 1988. The coal is classified as High Volatile B bituminous in the Lower Sunnyside and Gilson Seams and as High-volatile A bituminous in the Aberdeen Seam.

The mine plan area is located approximately 10 miles north-northeast of Price, Utah in Carbon County in T12 and 13S and R10 and 11E (See Figure 1-2. The permitted property contains approximately 6528.83 acres. Of this, 1081.5 acres are fee surface and coal leased from the following: Zion Security Corporation (200 acres), Mathis (640 acres), Sunedco (200 acres), Andalex Resources fee (40 acres), and David Cave (1.5 acres). An additional 5435.88 acres are federal leases, consisting of SL-027304 (235.96 acres), SL-063058 (400 acres), U-010581 (1,842.39 acres), U-05067 (360 acres), UTU-66060 (1093.32 acres), UTU-69600 (801.48 acres) and UTU-79975 (702.73 acres). The remaining 11.45 acres are BLM surface rights-of-way #62045 (10 acres) and #64158 (1.45 acres). Please see Figure 1-2.

This property is located in the Book Cliffs coal field and includes Alrad Canyon, Deadman Canyon, Starpoint Canyon, Straight Canyon, and Hoffman Creek Canyon areas with coal outcropping along the cliffs between 7,000 feet and 7,700 feet elevations. The topography is very rugged, the Book Cliffs being dissected by box canyons created by ephemeral streams. Large sandstone boulders eroded from the cliffs are scattered along the sides of the canyons. The land is undeveloped, used primarily for grazing, and there are no areas of national importance in the region. Mountain-Brush vegetative type covers most of the area.

There are no perennial streams or bodies of water on the property. Ground water recharge is from precipitation in the vicinity. Water supply for mine development is from water encountered in the existing underground mine workings. Culinary usage is supplied by an independent contractor who hauls Price City culinary water to the mine on an as-needed basis. Historically, coal mining has been the only industry in the permit area and there are several abandoned mines located on the property. No oil or gas wells exist in the area.

Access to the mine plan area is by way of the Airport Road, an existing paved county road which has been upgraded and is

maintained by Carbon County. It is used as an access road as well as a haul road. All surface and support facilities necessary for present operations have been completed and are located on the Zion's fee or on rights-of-way granted by the Bureau of Land Management. This is also a small private easement granted to Andalex from David Cave for a small portion of pond E. Andalex has acquired all applicable state and federal licenses, permits, and rights-of-way necessary to conduct mining activities on all private (fee) and federal leases.

As of 7-6/2007 the Apex Mine and the Pinnacle Mine have been worked out. The Apex Mine has been sealed at the portals. The Pinnacle mine is still being ventilated because the power to the Aberdeen mine runs into the Pinnacle mine from the substation and then drops down to the Aberdeen Mine through a borehole connecting the two mines. However, there are no plans to produce any more coal from the Pinnacle Mine. Therefore, all existing and future mine production from the Centennial Project will be solely from the Aberdeen Mine

The mining method being employed in the Aberdeen Mine is gateroad development utilizing continuous miners with final extraction by longwall. Certain fringe area reserves, inadequate for longwall panels, will be by room-and-pillar method.

This operation does not face any of the mining complications caused by faults or intrusives. The mine plan area is located in a region where mining has been the major industry; therefore, the nearby communities are geared for coal operations. The labor supply is excellent and well trained. With these considerations, and Andalex's prudent management, the Centennial Project will continue to be a model mining operation in the Carbon County area with very minimal environmental and socioeconomic impact.

Upon cessation of final mining activities, reclamation activities will commence as soon as is practicable, according to the plans outlined in this application. The land will be restored according to available technology to as nearly its original condition as is possible.

### **Organization of Application**

This underground mining permit application has been organized in accordance with the general requirements for format and contents as outlined in the R645- Coal Mining Rules.

### **R645-301-111.100. OBJECTIVES**

#### **Objectives**

The objective of this chapter is to set forth all relevant information concerning ownership and control of Andalex Resources, Inc., the ownership and control of the property to be affected by mining activities and all other information and

documentation required.

Please note that right-of-entry information for all new Leases is included in Appendix J, "Other Approvals".

**R645-301-111.200.      RESPONSIBILITY**

Andalex Resources, Inc., is responsible for submission of information and will pay abandoned mine reclamation fees.

**R645-301-111.300.      APPLICABILITY**

The requirements of R645-301-100 apply to Andalex Resources, Inc.

**R645-301-112.            IDENTIFICATION OF INTERESTS**

a)    Permit Applicant

Andalex Resources, Inc.    (Employer ID # 61-0931325)  
Tower Division  
P.O. Box 902  
Price, Utah 84501  
(801) 637-5385

b)    Legal and Equitable Owners of Record

Earth work for the Aberdeen Mine was completed in 1989. Surface facilities for the Aberdeen Mine were completed early in 1990. All existing facilities are located either on land owned by Zions Securities Corporation or on federal land. The addresses of these owners of record are as follow:

Bureau of Land Management (801) 524-3004  
Utah State Office  
P.O. Box 45155  
Salt Lake City, Utah 84145-0155

Zion Securities Corporation (801) 363-3841  
10 East South Temple  
Salt Lake City, Utah 84111

All coal to be mined on the permit area is owned by the federal government, Zion Securities Corporation, Sunedco Coal Company or AMCA Coal Leasing, Inc, a wholly-owned subsidiary of UtahAmerican Energy Inc.. The addresses of these owners of record are as follow:

Bureau of Land Management  
Utah State Office  
P.O. Box 45155  
Salt Lake City, Utah 84145-0155

AMCA Coal Leasing, Inc. (Employer No. 61-0914254)

PO Box 902  
Price, Utah 84501

Zion Securities Corporation  
10 East South Temple  
Salt Lake City, Utah 84111

Sunedco Coal Company  
7401 West Mansfield Avenue  
Suite 418  
P.O. Box 35-B  
Lakewood, Colorado 80235

**R645-301-112.100. TYPE OF BUSINESS**

Andalex Resources is a corporation organized and existing under the laws of Delaware and qualified to do business in Utah. Andalex Resources, Inc, is a wholly owned subsidiary of UtahAmerican Energy Inc., which in turn is a wholly owned subsidiary of Murray Energy Corporation, which in turn is a wholly-owned subsidiary of Murray Energy Holdings Co. Andalex began mining operations in the Pinnacle Mine October, 1980, and in the Apex Mine in late 1982. Mining commenced in the Aberdeen Mine in mid-1988. These mines are located on fee and federal lands in Carbon County, Utah. Andalex, the designated operator, along with AMCA Coal Leasing, Inc., its land acquisition and development branch, controls all federal and fee mining leases within the mine plan area. This underground mining permit application has been prepared by Andalex Resources and is being submitted for review and approval by the appropriate regulatory authorities.

**R645-301-112.200. NAMES, LOCATIONS, RESIDENT AGENT**

Resident Agent who will accept service of process for Andalex Resources, Inc., Tower Division, Centennial Mines, ACT/007/019:

Dave Shaver  
Andalex Resources, Inc.  
Tower Division  
P.O. Box 902  
Price, Utah 84501  
phone: (435) 888-4017

Also, see Chapter 8 for notarized statement pertaining to completeness and accuracy.

**R645-301-112.300. OTHER THAN SINGLE PROPRIETORSHIPS**

Andalex Resources, Inc., Tower Division, holds the exclusive coal operating interests in the permit area.

**R645-301-112.310. OFFICERS AND SHAREHOLDERS**

See Appendix 1, Part 1 for ownership and control information.

**R645-301-112.320. OWNERSHIP AND CONTROL RELATIONSHIP TO APPLICANT**

See Appendix 1, Part 1 for ownership and control information.

**R645-301-112.400. PENDING, CURRENT AND PREVIOUS COAL PERMITS**

See Appendix 1, Part 2 for current and previous coal mining permits

**R645-301-112.500. SURFACE AND MINERAL OWNERSHIP**

**Owners of Record of Surface and Subsurface Contiguous Areas**

Names and addresses of all owners of record for all surface and subsurface areas contiguous to and within the permit area are listed below and indicated on Plates 2 and 3.

**Subsurface Owners**

Franklin Real Estate Company (American Electric Power)  
#2 Broadway  
New York, New York (contiguous)

Bureau of Land Management  
Utah State Office  
P.O. Box 45155  
Salt Lake City, Utah 84145-0155 (contiguous & within)

State of Utah  
School and Institutional Trust Lands Administration (SITLA)  
675 East 500 South, Suite 500  
Salt Lake City, Utah 84102-2818 (contiguous)

Andalex Resources, Inc.  
PO Box 902  
Price, Utah 84501 (within)

Sunedco Coal Company  
7401 West Mansfield Avenue  
Suite 418  
P.O. Box 35-B  
Lakewood, Colorado 80235 (contiguous & within)

Zion Security Corp.  
10 East South Temple  
Salt Lake City, Utah 84111 (within)

Mathis Land Co.

Sunnyside Star Route  
Price, Utah 84501 (contiguous & within)

### **Surface Owners**

Bureau of Land Management  
Utah State Office  
P.O. Box 45155  
Salt Lake City, Utah 84145-0155 (contiguous & within)

Gladys R. Artman  
P.O. Box 22  
Mountain City, Georgia 30562 (contiguous & within)

F. and D. Shimmin  
711 North 5th East  
Price, Utah 84501 (contiguous)

Sunedco Coal Company  
7401 West Mansfield Avenue  
Suite 418  
P.O. Box 35-B  
Lakewood, Colorado 80235 (contiguous & within)

R. and E. Nelson  
583 Sundial Drive  
Moab, Utah 84532 (within)

Mathis Land Co.  
Sunnyside Star Route  
Price, Utah 84501 (contiguous & within)

J & S Critchlow (Cave, et.al)  
144 South 1650 East  
Price, Utah 84501 (contiguous & within)

Andalex Resources Inc.  
P.O. Box 902  
Price, Utah 84501 (within)

Zion Security Corporation  
10 East South Temple  
Salt Lake City, Utah 84111 (within)

State of Utah  
School and Institutional Trust Lands Administration (SITLA)  
675 East 500 South, Suite 500  
Salt Lake City, Utah 84180 (contiguous & within)

**R645-301-112.600. ADJACENT SURFACE AND MINERAL OWNERSHIP**

### **Interests in Contiguous Lands**

The Uintah-Southwest Utah Federal Coal Leasing Program has been dropped by the U.S. Department of Interior; therefore, previous

expressions of interests by this company are no longer valid. However, existing unleased federally owned coal resources remain of interest to Andalex at such time as currently controlled reserves have been exhausted.

**R645-301-112.700. MSHA NUMBERS FOR ALL MINE-ASSOCIATED STRUCTURES**

The Centennial Project includes the development of three separate mines. All are currently in operation. The names and M.S.H.A. I.D. numbers for existing mines and all sections are as follow:

Pinnacle Mine - M.S.H.A. I.D. #42-01474  
Apex Mine - M.S.H.A. I.D. #42-01750  
Aberdeen Mine - M.S.H.A. I.D. #42-02028

**R645-301-112.800. STATEMENT OF ALL LANDS AND INTERESTS IN LANDS**

The Uintah-Southwest Utah Federal Coal Leasing Program has been dropped by the U.S. Department of Interior; therefore, previous expressions of interests by this company are no longer valid. However, existing unleased federally owned coal resources remain of interest to Andalex at such time as currently controlled reserves have been exhausted.

**R645-301-113. VIOLATION INFORMATION**

**History of Violations**

Appendix 1, Part 3 contains a listing of all violations received within the last three years prior to the date of this application by Andalex and affiliated companies.

**R645-301-113.100. COMPLIANCE INFORMATION**

Andalex Resources, Inc., affiliates or persons controlled by or under common control with Andalex haven't had a mining permit suspended or revoked within the last five years.

Andalex Resources, Inc., affiliates or persons controlled by or under common control with Andalex have not forfeited a mining bond or similar security in lieu of bond.

Appendix 1, Part 3 contains a listing of all violations received within the last three years prior to the date of this application by Andalex and affiliated companies.

**R645-301-113.110. SUSPENDED OR REVOKED PERMITS**

Andalex Resources, Inc., affiliates or persons controlled by or under common control with Andalex haven't had a mining permit suspended or revoked within the last five years.

**R645-301-113.120. FORFEITED BONDS**

Andalex Resources, Inc., affiliates or persons controlled by or under common control with Andalex have not forfeited a mining bond or similar security in lieu of bond.

**R645-301-113.200. EXPLANATION OF PERMIT OF BOND FORFEITURE**

N/A

**R645-301-113.210 PERMIT AND BOND IDENTIFICATION**

The following is a list of all other licenses and permits under applicable state and federal land-use, air and water quality, water rights and health and safety laws and regulations held by Andalex in order to conduct underground coal mining activities.

All permits listed are up to date and current. The NPDES Permit for the Centennial Project has been replaced by a an individual UPDES permit, UT0025674.

State:

- 1) State of Utah  
Department of Natural Resources  
Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Salt Lake City, Utah 84114-5801  
  
- Mining and Reclamation Plan for Andalex Resources'  
Centennial Project  
Permit I.D. Number ACT/007/019  
Approved January 4, 1982
  
- 2) State of Utah  
Department of Environmental Quality  
150 North 1950 West  
P.O. Box 144820  
Salt Lake City, Utah 84114-4820  
  
- Air Quality Construction and Operation Permit  
Permit Number 977-96  
Approved June 13, 1980  
Reapplied June 2, 1988 (modification)  
Approved June 23, 1989  
  
- Water Quality - Sediment and Drainage  
Approved May 14, 1980  
  
- Septic and Culinary Plan (2)  
Approved September 17, 1980 (Office Site)  
Approved May 8, 1980 (Bathhouse Facility)

Federal:

1) Environmental Protection Agency  
Region VIII  
1860 Lincoln Street  
Denver, Colorado 80295

- National Pollutant Discharge Elimination System (NPDES)  
Permit I.D. - UT-0023507  
Issued April 25, 1982  
Renewed August 31, 1989

(PSD) - Prevention of Significant Deterioration of Air Quality  
Unissued: Determined by the E.P.A. to be unnecessary

2) Bureau of Land Management  
Utah State Office  
P.O. Box 45155  
Salt Lake City, Utah 84145-0155

- Access Road Right-of-Way  
Permit Number U-45966  
Granted September 1, 1980
- Buried Telephone Cable Right-of-Way  
Permit Number U-36739  
Granted November 20, 1978
- Power Transmission Line Right-of-Way  
Permit Number U-36741  
Granted November 20, 1978, assigned to UP&L
- Material Storage Site Right-of-Way  
Permit Number U-45965  
Granted September 11, 1980
- Aberdeen Mine Right-of-Way  
Permit Number UTU-62045  
Granted June 6, 1988

3) Mine Safety and Health Administration (M.S.H.A.)  
P.O. Box 25367  
Denver, Colorado 80225  
(District 9)

Pinnacle Mine I.D. 42-01474  
Apex Mine I.D. 42-01750  
Aberdeen Mine I.D. 42-02028

- Roof Control Plan  
Reviewed and approved every six months
- Ventilation System and Methane and Dust Control Plan  
Reviewed and approved every six months

- Smoking Prohibition Plan  
Approved August 4, 1992
- Training Plan  
Approved November 27, 1990
- Instruction Program: Firefighting and Evacuation Plan  
Approved August 4, 1992
- SCSR Storage Plan  
Approved May 18, 1992
- Chest X-Ray Plan  
Approved March 15, 1990

**R645-301-113.220. REGULATORY AUTHORITIES INVOLVED**

See above

**R645-301-113.230. CURRENT STATUS OF PERMIT AND BOND**

See above

**R645-301-113.240. ADMINISTRATIVE OR JUDICIAL PROCEDURES**

Appendix 1, Part 3

**R645-301-113.250. CURRENT STATUS OF PROCEEDINGS**

Appendix 1, Part 3

**R645-301-113.300. LIST OF ALL VIOLATIONS NOTICES**

Appendix 1, Part 3

**R645-301-113.310. IDENTIFICATION OF VIOLATIONS**

Appendix 1, Part 3

**R645-301-113.320. DESCRIPTION OF VIOLATIONS**

Appendix 1, Part 3

**R645-301-113.330. LOCATION OF VIOLATIONS PROCEEDINGS**

Appendix 1, Part 3

**R645-301-113.340. STATUS OF VIOLATIONS PROCEEDINGS**

Appendix 1, Part 3

**R645-301-113.350. ACTIONS TAKEN TO ABATE VIOLATIONS**

R645-301-114.

**RIGHT-OF-ENTRY INFORMATION**

Andalex Resources, Inc., in sublease agreement with AMCA Coal Leasing, Inc., currently holds approximately 6528.83 acres of private and federal coal leases and rights-of-way listed below, all of which are included in their entirety within the permit area. Andalex basis its legal right to enter and conduct mining activities in the permit area pursuant to the language contained in the Federal Coal Leases, Section 2, Rights of Lessee as follows:

"The lessor, in consideration of any bonus paid (or to be paid if deferred), rents and royalties and other conditions hereinafter set forth, hereby grants and leases to the lessee the exclusive right and privilege to mine and dispose of all coal ... subject to the conditions, limitations and prohibitions provided in this lease and in applicable acts and regulations, the right to construct all works, buildings, structures, equipment, and appliances which may be necessary and convenient for the mining and preparation of the coal for market, and subject to the conditions herein provided, to use so much of the surface as may reasonably be required in the exercise of the rights and privileges herein granted..."

A similar right to enter and conduct underground mining activities is contained in the private lease agreement with the Zion Securities Corporation as follows:

"During the life of the lease, so long as lessee is not in default hereunder, it may freely prospect, mine and develop the lease premises, extract and sell such coal therefrom as it may elect, and use the surface and underground thereof for all lawful purposes including the exploration and mining to be conducted therein and thereon. It may also use the leased lands in connection with the mining and development of other lands which it may own, lease, or acquire as a part of its general mining operations in the area."

Legal right-of-entry information for all federal and fee leases and rights-of-way are found in Appendix J, "Other Approvals". None of the leases' rights-of-entry is a subject of pending litigation.

The Federal Coal Leases are described as follows (please see Figure 1-2):

**1) SL-027304:**

Tract 1: (original lease)  
T.13S., R.11E., SLM, Utah

Sec. 7; S2SE4,  
Sec. 18; NW4NE4.

Tract 2: (lease modification)  
T.13S., R.11E., SLM, Utah  
Sec. 7; Lot 4;  
Sec. 18; Lot 1, N2NE4NW4, SW4NE4NW4  
entire lease (Tracts 1 and 2) containing 235.96 acres,  
more or less.

This lease was originally assigned to W.F. Olsen on September 1, 1925. On May 1, 1959, the lease was assigned to F.H. Larson and then to Centennial Coal Associates on February 1, 1973. AMCA Coal Leasing, Inc., acquired the lease in February, 1977 and subsequently added Tract 2 through lease modification criteria on October 26, 1981.

\*\*\*\*\* (NOTE: The legal description of the composite lease as described on the existing BLM lease form is as follows:

T.13S., R.11E., SLM, Utah  
Sec. 7; Lot 4, S2SE4  
Sec. 18; Lot 1, NW4NE4, N2NE4NW4, SW4NE4NW4  
containing 235.96 acres, more or less.)\*\*\*\*\*

**2) SL-063058:**

Tract 1: (original lease)  
T.13S., R.11E., SLM, Utah  
Sec. 8; S2SW4;  
Sec. 17; N2NW4, SE4NW4;  
Sec. 18; NE4NE4.

Tract 2: (lease modification)  
T.13S., R.11E., SLM, Utah  
Sec. 17; SW4NW4, NE4NW4SW4, W2NW4SW4,  
Sec. 18; E2SE4NE4, NW4SE4NE4, SW4NE4, E2NE4SE4  
entire lease containing 400 acres, more or less.

The original lease of 80 acres was assigned to C.D. Sutton on August 3, 1942. On July 27, 1950, the lease was amended to embrace 200 acres. An additional 40 acres was added December 13, 1951. The leases were posted to F.H. Larson on May 1, 1970 and then to Centennial Coal Associates on February 1, 1973. AMCA Coal Leasing, Inc., acquired the lease in February, 1977 and subsequently added Tract 2 through the federal lease modification criteria.

\*\*\*\*\* (NOTE: The legal description of the composite lease as described on the existing BLM lease form is as follows:

T.13S., R.11E., SLM, Utah  
Sec. 8; S2SW4  
Sec. 17; NW4, NE4NW4SW4, W2NW4SW4  
Sec. 18; NE4NE4, E2SE4NE4, NW4SE4NE4, SW4NE4, E2NE4SE4  
containing 400 acres, more or less.)\*\*\*\*\*

**3) UTU-010581:**

Tract 1: (original lease)  
T.13S., R.11E., SLM, Utah  
Sec. 5; All  
Sec. 6, All  
Sec. 7; Lot 1, NE4, NE4NW4, N2SE4;  
Sec. 8; N2, N2S2, S2SE4;  
Sec. 9; W2SW4;  
Sec. 17; N2NE4.

Tract 2: (lease modification)  
T.13S., R.11E., SLM, Utah  
Sec. 17; S2NE4, N2NE4SW4, NE4SE4, N2NW4SE4  
entire lease containing 1,842.39 acres, more or less.

This lease was assigned to C.D. Sutton on February 1, 1956. On May 1, 1970 the lease was assigned to F.H. Larson and then to Centennial Coal Associates on February 1, 1973. AMCA Coal Leasing, Inc., acquired the lease in February, 1977 and subsequently added Tract 2 through the federal lease modification criteria.

\*\*\*\*\* (NOTE: The legal description of the composite lease as described on the existing BLM lease form is as follows:

T.13S., R.11E., SLM, Utah  
Sec. 5; All  
Sec. 6; All  
Sec. 7; Lot 1, NE4NW4, NE4, N2SE4  
Sec. 8; N2, N2S2, S2SE4  
Sec. 9; W2SW4  
Sec. 17; NE4, N2NE4SW4, NE4SE4, N2NW4SE4  
containing 1,842.39 acres, more or less.)\*\*\*\*\*

**4) U-05067-08916**

T.13S., R.11E., SLM, Utah  
Sec. 4; Lots 5-8  
Sec. 9; NW4NE4, N2NW4, SW4NW4, NE4SW4  
containing 360 acres, more or less.

**5) UTU-66060**

Tract 1: (original lease)  
T.12S, R.11E., SLM, Utah  
Sec. 31; Lots 3-6, Lots 13-22

T.13S, R.10E., SLM, Utah  
Sec. 1; Lots 1-8, S2N2  
Sec. 12; Lot 1

Tract 2: (lease modification)  
T.12S., R.11E., SLM, Utah

Sec. 31; Lot 12  
Sec. 32; W2SW4, SW4NW4  
entire lease containing 1093.32 acres more or less.

UTU-66060 is subject to the terms and conditions set forth in the Federal Coal Lease issued by the Bureau of Land Management October 3, 1994.

\*\*\*\*\* (NOTE: The legal description of the composite lease as described on the existing BLM lease form is as follows:

T.12S., R.11E., SLM, Utah

Sec. 31; Lots 3-6, Lots 12-22

Sec. 32; W2SW4, SW4NW4

T.13S., R.10E., SLM, Utah

Sec. 1; Lots 1-8, S2N2

Sec. 12; Lot 1

containing 1093.32 acres more or less.)\*\*\*\*\*

#### 6) UTU-69600

T.13S., R10E. SLM, Carbon County, Utah

Sec. 1: SW4

Sec. 12: lots 2-11, W2W2, NE4SW4

containing 801.48 acres, more or less

The name and address of the lessor is American Electric Power Service Corporation, Fuel Supply Department, P.O. Box 700, Lancaster, Ohio 43130. This agreement was executed on May 1, 1992.

#### 7) UTU-79975

T. 12S., R. 11E. SLM, Utah

Sec. 29; SW4SW4, SW4SE4

Sec. 30; Lots 4, 12, 14-16

Sec. 31; Lots 1, 2, 7-11

Sec. 32, W2NE4, E2NW4, NW4NW4, NE4SW4

containing 702.73 acres, more or less.

The private fee leases are described as follows (see Figure 1-2):

#### 8) Mathis Fee Lease

T.12S., R.10E., SLM, Utah

Sec. 36; All

containing 640 acres, more or less.

#### 9) Zion Fee Lease

T.13S., R.11E., SLM, Carbon County, Utah  
Sec. 7; S2NW4, N2SW4, SE4SW4  
containing 200 acres, more or less.

The name and address of the lessor is Zion Securities Corporation, 10 East South Temple Street, Salt Lake City, Utah. This lease was originally made and entered into between Zion's and Centennial Coal Associates on August 1, 1972. AMCA Coal Leasing Inc. acquired the lease in February, 1977.

**10) Sunedco Fee Lease**

T.13S., R.11E., SLM, Carbon County, Utah  
Sec. 9; E2NE4, SW4NE4, N2SE4  
containing 200 acres, more or less.

The name and address of the lessor is Sunedco Coal Company, 7401 West Mansfield Avenue, Suite 418, P.O. Box 35-B, Lakewood, Colorado 80235. AMCA Coal Leasing, Inc. acquired the lease in June, 1988.

**11) Andalex Fee**

T.13S., R.11E., SLM, Carbon County, Utah  
Sec. 9; SE4NW4  
containing 40 acres, more or less.

The surface rights-of-way are described as follows (see Figure 1-2):

**12) BLM Right-of-Way U-62045**

T.13S., R.11E., SLM, Carbon County, Utah  
Sec. 18; SE4NE4NW4 containing 10 acres, more or less.

This right-of-way was granted for construction of some of the surface facilities in Deadman Canyon, namely certain structures associated with the Aberdeen mine surface facilities in the southernmost area of the mineyard.

The grantor is the Department of the Interior, Bureau of Land Management, 400 West 200 South, Suite 500, Salt Lake City, Utah 84145-0155

**13) BLM Right-of-Way UTU-64158**

T.13S., R.10E., SLM, Carbon County, Utah  
Sec. 13; Lot 1 (portions of)

T.13S., R.11E., SLM, Carbon County, Utah

Sec. 18; Lot 2, NE4SW4 (portions of) containing 1.45 acres, more or less.

This right-of-way was granted for construction of the main mine fan installation and the access road in the Left Fork.

The grantor is the Department of the Interior, Bureau of Land Management, 400 West 200 South, Suite 500, Salt Lake City, Utah 84145-0155

**14) Cave Private Land Easement**

T.13S., R.11E., SLM, Carbon County, Utah  
Sec. 18; A portion of NE4NE4SE4NW4 containing 1.5 acres, more or less.

This easement was granted for the construction of sediment pond E located at the extreme southern end of the mineyard.

This easement has been granted by David R Cave et al whose address is 3379 East Hwy 6, Price, Utah 84501.

-----  
Permit Area (6528.83 acres)

The following is a description of the Permit Area as shown on Figure 1-2. This is a composite description of all federal and private coal leases and rights-of-way listed above which comprise the permit area. Sections marked with an asterisk (\*) are included in their entirety within the permit area.

T.12S., R.10E., SLM, Carbon County, Utah  
Sec. 36\*; All (Mathis fee lease)

T.12S., R.11E., SLM, Carbon County, Utah  
Sec. 29; SW4SW4, SW4SE4 (part of UTU-79975)  
Sec. 30; Lots 4,12,14-16 (part of UTU-79975)  
Sec. 31\*; Lots 1, 2, 7-11 (part of UTU-79975)  
Lots 3-6, 12-22 (part of UTU-66060)

Sec. 32; W2NE4, E2NW4, NW4NW4, NE4SW4 (part of UTU-79975)  
W2SW4, SW4NW4 (part of UTU-66060)

T.13S., R.10E., SLM, Carbon County, Utah  
Sec. 1\*; Lots 1-8, S2N2 (part of UTU-66060)  
SW4 (part of UTU-69600)

Sec. 12\*; Lot 1 (part of UTU-66060)

Lots 2-11, W2W2, NE4SW4 (part of UTU-69600)

Sec. 13. Lot 1 (a portion thereof, part of BLM ROW 64158)

T.13S., R.11E., SLM, Carbon County, Utah

Sec. 4; Lots 5-8 (part of U-05067)

Sec. 5\*; All (part of UTU-010581)

Sec. 6\*; All (part of UTU-010581)

Sec. 7\*; Lot 1, NE4NW4, NE4, N2SE4 (part of UTU-010581)

Lot 4, S2SE4 (part of SL-027304)

S2NW4, N2SW4, SE4SW4 (Zions Fee Lease)

Sec. 8\*; N2, N2S2, S2SE4 (part of UTU-010581)

S2SW4 (part of SL-63058)

Sec. 9; E2NE4, SW4NE4, SE4NW4, N2SE4 (Sunedco Fee Lease)

NW4NE4, N2NW4, SW4NW4, NE4SW4 (part of U-05067)

Sec. 17; NE4, N2NE4SW4, NE4SE4, N2NW4SE4 (part of UTU-010581)

NW4, NE4NW4SW4, W2NW4SW4 (part of SL-063058)

Sec. 18; NE4NE4, E2SE4NE4, NW4SE4NE4, SW4NE4, E2NE4SE4  
(part of SL-063058)

Lot 1, NW4NE4, N2NE4NW4, SW4NE4NW4 (part of SL-027304)

SE4NE4NW4 (BLM ROW U-62045)

Lot 2, NE4SW4 (portions thereof, part of BLM ROW UTU-64158)

NE4NE4SE4NW4 (a portion thereof, Cave private surface easement)

**R645-301-114.100. DOCUMENTATION**

Appendix J

**R645-301-114.200. SEVERED SURFACE AND MINERAL ESTATES**

Appendix J

**R645-301-114.210. WRITTEN SURFACE OWNER CONSENT FOR COAL EXTRACTION**

Appendix R

**R645-301-114.220. CONVEYANCE EXPRESSLY GRANTING RIGHT TO MINE COAL**

Appendix J

**R645-301-114.230. DOCUMENTATION OF LEGAL AUTHORITY TO MINE COAL**

Appendix J

**R645-301-114.300. ADJUDICATION OF PROPERTY RIGHTS DISPUTES**

**R645-301-114.300. ADJUDICATION OF PROPERTY RIGHTS DISPUTES**

The Division does not have the authority to adjudicate property rights disputes.

**R645-301-115. STATUS OF UNSUITABILITY CLAIMS**

Carbon County has authorized mining and reclamation activities within 100 feet of County Road 299. (See Appendix B)

**R645-301-115.100. IDENTIFICATION OF LANDS UNSUITABLE**

The permit area is not within an area designated unsuitable for the surface effects of underground coal mining activities or under study for designation in an administrative proceeding initiated under those pasts. Further, there are no occupied dwellings within 300 feet of the permit area including the Hoffman Creek area.

**R645-301-115.200. CLAIMS OF EXEMPTION BY COMMITMENT PRIOR TO JANUARY 4, 1977**

None.

**R645-301-115.300. MINING AND RECLAMATION OPERATIONS WITHIN 300 FEET OF AN OCCUPIED DWELLING OR WITHIN 100 FEET OF A PUBLIC ROAD**

None.

**R645-301-116. PERMIT TERM**

The starting and termination dates as well as the horizontal and vertical extent of the proposed underground mining activities over the total life of the permit are indicated on the revised Pinnacle

underground layout map included as Plate 30. Also refer to the underground layout maps for the Apex and Aberdeen Mines (see Plates 29 and 31). Refer to plate 41.

**R645-301-116.100. SCHEDULE OF PHASED MINING AND RECLAMATION ACTIVITIES**

All surface facilities have been constructed for the Pinnacle, Apex and Aberdeen Mines. Earthwork for the Aberdeen Mine was completed in 1989. The surface facilities for the Aberdeen Mine were completed in early 1990. No additional surface facilities are required for any new leases.

Andalex has added a fan installation in the left-hand fork of Deadman Canyon. This installation was conducted according to measures outlined by the Bureau of Land Management as part of Right-of-Way U-64158. (Copy of Right-of-Way is included in Appendix B.) The location of this breakout is shown on Plate 29 (R.O.W.).

Andalex will fill, regrade and stabilize rills and gullies over 9 inches in depth. Further, Andalex has agreed to interim stabilization of all slopes and embankments within the disturbed area and has done so. One slope located at the bottom of the office driveway, has been attempted through hydroseeding, fertilizing and mulching techniques on three separate occasions. No significant erosion problems have occurred, Andalex will notify the Division in the event of any slides or other damage.

Andalex will cover acid or toxic forming materials if any are encountered. Andalex will advise the Division in the event of a temporary shutdown, such as a letter sent to the Division when Andalex's Apex Mine was temporarily closed.

**R645-301-116.200. PERMIT TERM IN EXCESS OF FIVE YEARS**

The requested term of this permit is five years. Andalex will then apply for five year extensions over the life of the mine.

**R645-301-116.210. COMPLETENESS AND ACCURACY FOR LONGER TERM**

N/A

**R645-301-116.220. DEMONSTRATION OF NEED FOR LONGER TERM**

N/A

**R645-301-117. INSURANCE, PROOF OF PUBLICATION AND FACILITIES OR STRUCTURES USED IN COMMON**

Appendix B contains certificates of liability insurance covering personal injury and property damage resulting from this operation. Andalex commits to mitigate all subsidence related

damage to renewable resources, including, but not limited to water, grazing, and wildlife habitat including raptor nests.

**R645-301-117.100.      LIABILITY INSURANCE**

Appendix B

**R645-301-117.200.      NEWSPAPER PUBLICATION**

A copy of the newspaper advertisement of this Mining and Reclamation Plan and proof of publication of the advertisement is filed with the Division and made part of the complete application. Also, please refer to this chapter for the public notice and proof of publication for the newly acquired Sunedco Lease.

**R645-301-117.300.      FACILITIES USED IN COMMON**

The Centennial Project includes the development of three separate mines. All are currently in operation. The names and M.S.H.A. I.D. numbers for existing mines and all sections are as follow:

Pinnacle Mine - M.S.H.A. I.D. #42-01474  
Apex Mine - M.S.H.A. I.D. #42-01750  
Aberdeen Mine - M.S.H.A. I.D. #42-02028

All coal from the newly acquired AEP Lease will be mined simply as an underground extension of the existing Pinnacle and Aberdeen Mines.

**R645-301-118.              FILING FEE**

N/A                              Page 1-27 of document

**R645-301-120.              PERMIT APPLICATION FORMAT AND CONTENTS**

Summary of Table of Contents

R645-301-100.    General  
R645-301-200.    Soils  
R645-301-300.    Biology  
R645-301-400.    Land Use and Air Quality  
R645-301-500.    Engineering  
R645-301-600.    Geology  
R645-301-700.    Hydrology

**R645-301-121. REQUIREMENTS**

**R645-301-121.100. CURRENT INFORMATION**

Information is current.

**R645-301-121.200. CLEAR AND CONCISE**

Information is clear and concise.

**R645-301-121.300. FORMAT REQUIREMENTS**

To facilitate review of the application, each chapter listed above has been further divided into specific parts and sections. These can be found listed in the detailed table of contents appearing at the beginning of this text along with the page numbers on which they appear. This table of contents also contains lists of figures, tables, plates, exhibits, and appendices to facilitate cross referencing between chapters.

Exhibits include appropriate supporting documents, reports and publications and are included as appendices.

Maps which were not reduced to fit into the text are included in a separate volume as plates. All maps and plans are submitted in accordance with the requirements.

**R645-301-123. APPLICATION FOR PERMITS, CHANGES, RENEWALS, OR TRANSFERS**

Text deleted as instructed by Technical analysis.

**R645-301-130. REPORTING AND TECHNICAL DATA**

Persons and Consultants Involved

The following persons and/or organizations were involved in collection and analysis of the technical data set forth in this application.

1. In-House Consulting Services
  - a) Andalex Resources, Inc. - AMCA Coal Leasing, Inc.  
Samuel C. Quigley - Western Project Manager  
Michael W. Glasson - Senior Geologist  
Allen D. Emmel - Environmental Planning  
Coordinator
2. Outside Consulting Services

- a) Dan W. Guy - Registered Professional Engineer  
(State of Utah No. 4548)  
Price, Utah  
-Sedimentation and Drainage Control Plan  
(April, 1980)  
  
- Wastewater Disposal System; Pinnacle Mine  
(April, 1980)  
Office Building (September, 1980)
- b) Bruce T.S. Ware - Registered Land Surveyor  
Price, Utah
- c) A and W Surveying  
Price, Utah
- d) Commercial Testing & Engineering Co.  
Denver, Colorado
- e) Standard Laboratories  
Huntington, Utah
- f) Western Testing and Engineering  
Helper, Utah
- g) VanCott, Bagely, Cornwall and McCarthy  
Attorneys at Law  
Salt Lake City, Utah
- h) Rollins, Brown, and Gunnel  
Provo, Utah
- i) Brigham Young University  
Provo, Utah  
Department of Zoology  
Clayton M. White  
(Raptor Study)  
Department of Anthropology/Archaeology  
Dr. Ray T. Matheny  
(Archaeological Survey)
- j) Earth Environmental Consultants  
Albuquerque, New Mexico
- k) Vaughn Hansen Associates  
Salt Lake City, Utah  
(Hydrology Study)
- l) Horrocks Engineers  
American Fork, Utah

Coordination and Consultation with Governmental Agencies

The following governmental agencies were consulted in the

preparation of information set forth in this application.

U.S. Department of Agriculture  
Soil Conservation Service  
Price, Utah  
(Soil and Vegetation Survey)

U.S. Department of the Interior  
Bureau of Land Management  
Price, Utah  
Salt Lake City, Utah

Office of Surface Mining, Reclamation and Enforcement  
Denver, Colorado

U.S. Geological Survey  
Salt Lake City, Utah

State of Utah:  
Department of Natural Resources  
Division of Oil, Gas, and Mining  
Salt Lake City, Utah

Antiquities Section (Consulting Services Branch)  
Salt Lake City, Utah  
(Archaeological Survey)

Department of Natural Resources  
Division of Wildlife Resources  
Salt Lake City, Utah

#### References:

AMCA Coal Leasing, Inc., 1978. Mining and Reclamation Plan, Zion's Fee. Submitted to the State of Utah, Department of Natural Resources, D.O.G.M.

Centennial Coal Associates, 1976. Mining Application. Submitted to the U.S. Geological Survey.

Doelling, H.H., 1972. Central Utah Coal Fields. U.G.M.S. Monograph Series No. 3.

U.S.D.A., 1978. Soil Survey and Interpretations of the Coal Creek Emery Portion of the Price River and Emery County Areas, Carbon and Emery Counties, Utah. S.C.S.

U.S.D.I., 1979. Final Environmental Statement, Development of Coal Resources in Central Utah, Parts 1 and 2.

U.G.M.S., 1966. Central Utah Coals. U.G.M.S. Bulletin No. 80.

R645-301-131.

**TECHNICAL DATA REQUIREMENTS**

Where applicable, technical data submitted has been identified as to who prepared the information and is stamped by that registered professional engineer (P.E.).

R645-301-132.

**TECHNICAL ANALYSES REQUIREMENTS**

Analyses are prepared by a qualified professional engineer.

R645-301-140.

**MAPS AND PLANS**

R645-301-141.

**MAP FORMATS**

R645-301-142.

**PHASES OF OPERATIONS AND MINING ACTIVITY**

Mining operations at the Pinnacle Mine began in the Gilson Seam on October 3, 1980, according to the Mining and Reclamation Plan approved by the State of Utah, Department of Natural Resources, Division of Oil, Gas, and Mining. The mining began on the Zion's fee lease and extended onto Andalex's federal leases according to federal approval granted in 1982. Andalex also opened the Apex Mine in the Lower Sunnyside Seam late in 1982. Mining commenced in the Aberdeen Mine in the Aberdeen Seam in mid 1988. The coal is classified as High Volatile B bituminous in the Lower Sunnyside and Gilson Seams and as High-volatile A bituminous in the Aberdeen Seam.

The mine plan area is located approximately 10 miles north-northeast of Price, Utah in Carbon County in T12 and 13S and R10 and 11E (See Figure 1-2). The permitted property contains approximately 6528.83 acres. Of this, 1081.5 acres are fee surface and coal leased from the following: Zion Security Corporation (200 acres), Mathis (640 acres), Sunedco (200 acres), Andalex Resources fee (40 acres), and David Cave (1.5 acres). An additional 5435.88 acres are federal leases, consisting of SL-027304 (235.96 acres), SL-063058 (400 acres), U-010581 (1,842.39 acres), U-05067 (360 acres), UTU-66060 (1093.32 acres), UTU-69600 (801.48 acres) and UTU-79975 (702.73 acres). The remaining 11.45 acres are BLM surface rights-of-way #62045 (10 acres) and #64158 (1.45 acres). Please see Figure 1-2.

This property is located in the Book Cliffs coal field and includes Alrad Canyon, Deadman Canyon, Starpoint Canyon, Straight Canyon, and Hoffman Creek Canyon areas with coal outcropping along the cliffs between 7,000 feet and 7,700 feet elevations. The topography is very rugged, the Book Cliffs being dissected by box canyons created by ephemeral streams. Large sandstone boulders eroded from the cliffs are scattered along the sides of the canyons. The land is undeveloped, used primarily for grazing, and there are no areas of national importance in the region. Mountain-Brush vegetative type covers most of the area.

There are no perennial streams or bodies of water on the property. Ground water recharge is from precipitation in the vicinity. Water supply for mine development and culinary usage is supplied by wells that have been drilled.

Historically, coal mining has been the only industry in the permit area and there are several abandoned mines located on the property. No oil or gas wells exist in the area.

Access to the mine plan area is by an existing paved county road which has been upgraded and is maintained by Carbon County. Maintenance consists of paving, chipping, patching, culvert work, ditch work, signs, snow removal, painting, patrolling (county sheriff), etc., as needed. Andalex assumes no responsibility for road maintenance or repair. The road is used as an access road as well as a haul road. It should be noted that in the event of a catastrophic event which damaged the road, Andalex would pursue all avenues to assist Carbon County in reparation of the road. All surface and support facilities necessary for present operations have been completed and are located on the Zion's fee or on rights-of-way granted by the Bureau of Land Management. This is also a small private easement granted to Andalex from Gladys M. Artman for a small portion of pond E. All proposed facilities are indicated in this application. Andalex has acquired all applicable state and federal licenses, permits, and rights-of-way necessary to conduct mining activities on the Zion's fee property and contiguous federal leases.

As of 7-6/2007 the Apex Mine and the Pinnacle Mine have been worked out. The Apex Mine has been sealed at the portals. The Pinnacle mine is still being ventilated because the power to the Aberdeen mine runs into the Pinnacle mine from the substation and then drops down to the Aberdeen Mine through a borehole connecting the two mines. However, there are no plans to produce any more coal from the Pinnacle Mine. Therefore, all existing and future mine production from the Centennial Project will be solely from the Aberdeen Mine

The mining method being employed in the Aberdeen Mine is gateroad development utilizing continuous miners with final extraction by longwall. Certain fringe area reserves, inadequate for longwall panels, will be by room-and-pillar method.

Upon cessation of mining activities, reclamation activities will commence as soon as is practicable, according to the approved Mining and Reclamation Plan. The land will be restored according to available technology to as nearly its original condition as is possible.

This operation does not face any of the mining complications caused by faults or intrusives. The mine plan area is located in a region where mining has been the major industry; therefore, the nearby communities are geared for coal operations. The labor supply is excellent and well trained. With these considerations,

and Andalex's prudent management, the Centennial Project has become a model mining operation in the Carbon County area with very minimal environmental and socioeconomic impact.

**R645-301-142.100. PRIOR TO AUGUST 3, 1977**

None by Andalex Resources. Several mines were operated by other independent companies or individuals in areas presently consumed by Andalex's surface facilities. Andalex's encroachment onto these previously disturbed areas transferred the responsibility for reclamation to Andalex. The specific locations of disturbed areas prior to Andalex's mining activities is irrelevant.

**R645-301-142.200. AFTER AUGUST 3, 1977**

All of Andalex's surface facilities and mining operations began after August 3, 1977.

**R645-301-142.210. PRIOR TO MAY 3, 1978**

See R645-301-142.100.

**R645-301-142.220. SMALL OPERATOR'S EXEMPTION PRIOR TO JANUARY 1, 1979**

N/A

**R645-301-142.300. AFTER MAY 3, 1978 (OR JANUARY 1, 1979 FOR SMALL OPERATOR'S EXEMPTION) AND PRIOR TO APPROVAL OF STATE PROGRAM**

N/A

**R645-301-142.400. AFTER ISSUANCE OF PERMIT BY THE DIVISION**

The following is a list of all other licenses and permits under applicable state and federal land-use, air and water quality, water rights and health and safety laws and regulations held by Andalex in order to conduct underground coal mining activities.

All permits listed are up to date and current. The NPDES Permit for the Centennial Project has been replaced in the form of a UPDES individual permit UT0025674.

State:

- 1) State of Utah  
Department of Natural Resources  
Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

- Mining and Reclamation Plan for Andalex Resources'  
Centennial Project

Permit I.D. Number ACT/007/019

Approved January 4, 1982

Permit Renewed March 2, 1987, January 1992

- 2) State of Utah  
Department of Health  
Division of Environmental Health  
150 West North Temple  
P.O. Box 2500  
Salt Lake City, Utah 84110

- Air Quality Construction and Operation Permit  
Approved June 13, 1980

Reapplied June 2, 1988 (modification)

Approved June 23, 1989

- Water Quality - Sediment and Drainage  
Approved May 14, 1980

- Septic and Culinary Plan (2)  
Approved September 17, 1980 (Office Site)  
Approved May 8, 1980 (Bathhouse Facility)

Federal:

- 1) Environmental Protection Agency  
Region VIII  
1860 Lincoln Street  
Denver, Colorado 80295

- National Pollutant Discharge Elimination System  
(NPDES)

Permit I.D. - UT0025674

Issued April 25, 1982

Renewed August 31, 1989

- Prevention of Significant Deterioration of Air  
Quality (PSD)

Unissued: Determined by the E.P.A. to be unnecessary

- 2) Bureau of Land Management  
Utah State Office  
Federal Building  
Salt Lake City, Utah 84111

- Access Road Right-of-Way  
Permit Number U-45966  
Granted September 1, 1980

- Buried Telephone Cable Right-of-Way  
Permit Number U-36739  
Granted November 20, 1978

- Power Transmission Line Right-of-Way  
Permit Number U-36741  
Granted November 20, 1978, assigned to UP&L
- Material Storage Site Right-of-Way  
Permit Number U-45965  
Granted September 11, 1980
- Aberdeen Mine Right-of-Way  
Permit Number UTU-62045  
Granted June 6, 1988

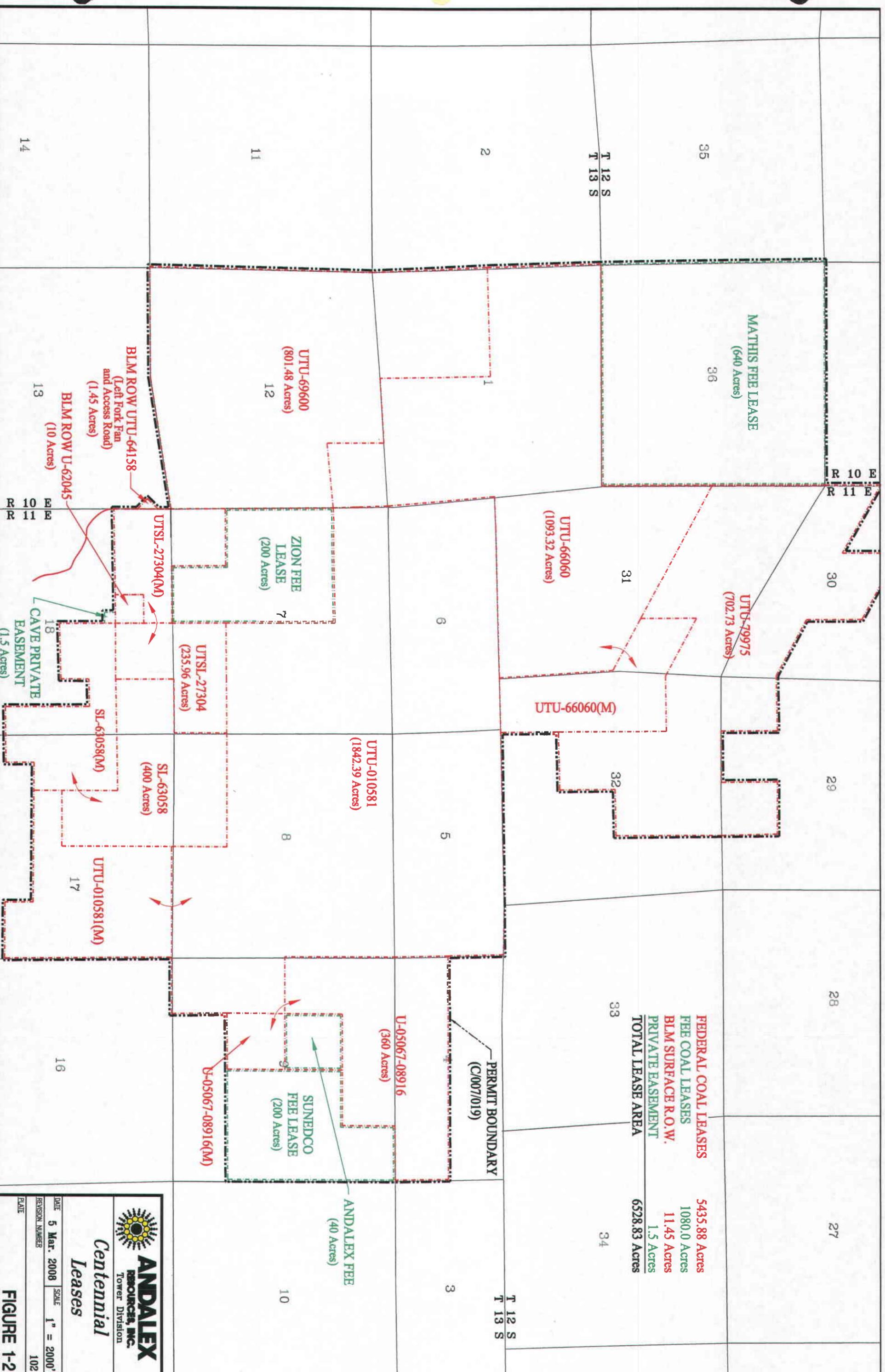
3) Mine Safety and Health Administration (M.S.H.A.)  
P.O. Box 25367  
Denver, Colorado 80225  
(District 9)

Pinnacle Mine I.D. 42-01474  
Apex Mine I.D. 42-01750  
Aberdeen Mine I.D. 42-02028

- Roof Control Plan  
Reviewed and approved every six months
- Ventilation System and Methane and Dust Control Plan  
Reviewed and approved every six months
- Smoking Prohibition Plan  
Approved August 4, 1992
- Training Plan  
Approved November 27, 1990
- Instruction Program: Firefighting and Evacuation Plan  
Approved August 4, 1992
- SCSR Storage Plan  
Approved May 18, 1992
- Chest X-Ray Plan  
Approved March 15, 1990

**R645-301-150. COMPLETENESS**

Per Division.



**Centennial Leases**

DATE	5 Mar. 2008	SCALE	1" = 2000'
REVISION NUMBER		PLATE	102

**FIGURE 1-2**

APPENDIX 1, PART 1  
OWNERSHIP AND CONTROL

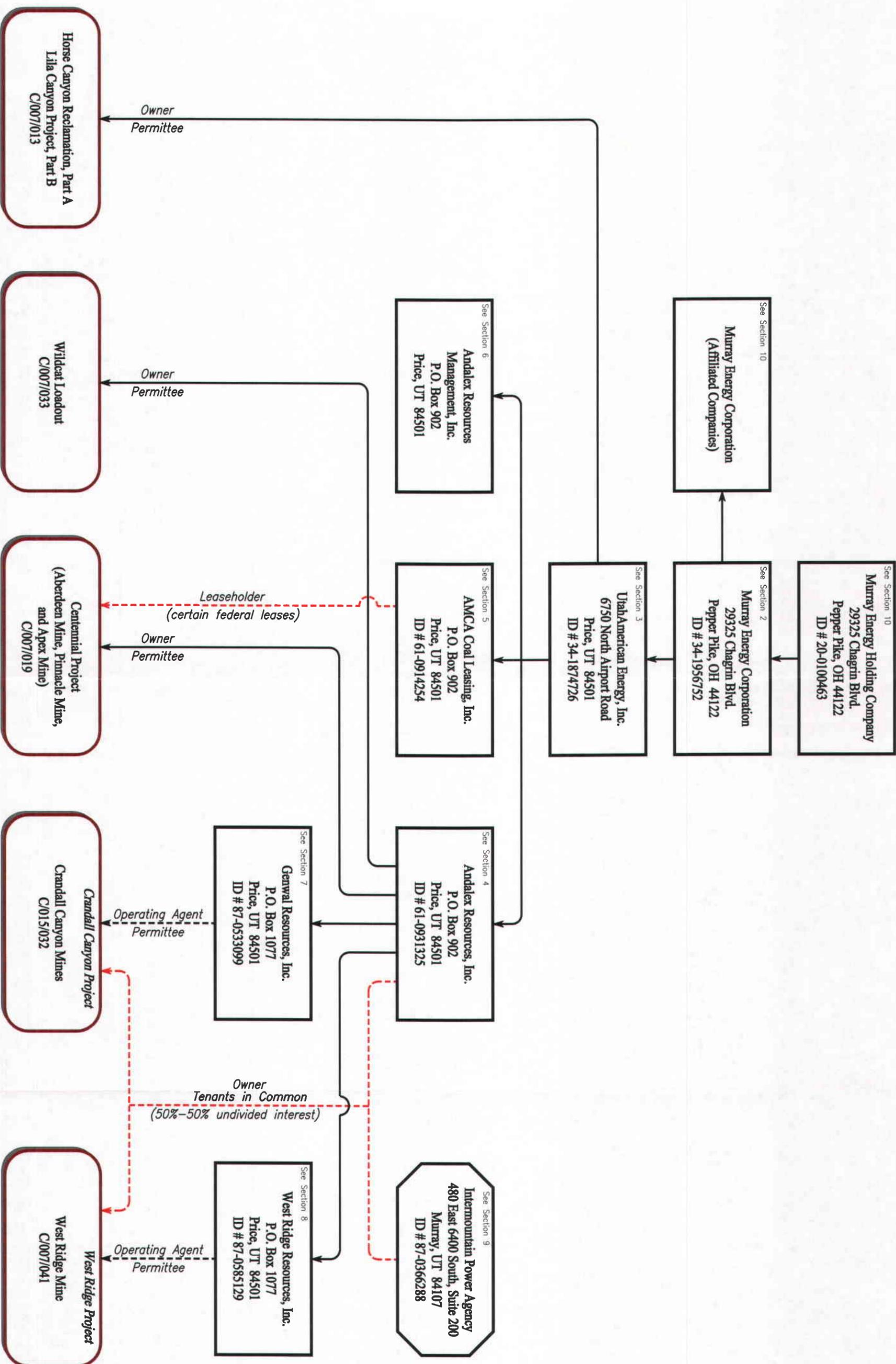
# **OWNERSHIP AND CONTROL**

**REVISED 1/29/2008**

**Section 1**

Insert  
Family Tree

# OWNERSHIP AND CONTROL



**Section 2**

**MURRAY ENERGY CORPORATION**

Suite 300

29325 Chagrin Boulevard

Pepper Pike, OH 44122

**Appointment of Officers**

		<u>Begin</u>	<u>End</u>
Robert E. Murray	Chairman, President &	02/23/01	
	Chief Executive Officer	02/23/01	
John R. Forrelli	Vice President	12/18/03	12/17/04
Robert D. Moore	Vice President &	12/17/04	
	Chief Financial Officer	04/23/07	
P. Bruce Hill	Vice President - Human Resources	12/18/03	
Michael D. Loiacono	Treasurer	02/23/01	
Michael D. Loiacono	Chief Financial Officer	12/20/05	04/23/07
Michael O. McKown	Secretary	02/23/01	

**Incorporation Information:**

State of Incorporation	Ohio; Charter No. 1211519
Date of Incorporation	February 23, 2001
ID#	34-1956752

**Shareholder:**

	<u>Begin</u>	<u>End</u>
Murray Energy Holdings Co. (100%)	10/21/03	
Robert E. Murray	2/23/01	10/21/03

**Directors:**

Robert E. Murray	02/23/01	
Michael D. Loiacono	12/20/05	04/23/07
Henry W. Fayne	01/28/05	
Richard L. Lawson	01/28/05	
Andrew D. Weissman	10/23/03	
Robert D. Moore	04/23/07	

**Section 3**

UTAHAMERICAN ENERGY, INC.

P.O. Box 902

6750 North Airport Road

Price, UT 84501

**Officers:**

		<u>Begin</u>	<u>End</u>
P. Bruce Hill	Chief Executive Officer	08/18/06	
P. Bruce Hill	President	12/16/06	
Douglas H. Smith	President	08/18/06	12/16/06
Clyde I. Borrell	President	07/31/98	05/19/06
Robert D. Moore	Treasurer	08/18/06	
Michael O. McKown	Secretary	08/18/06	
Marsha Baker Kocinski	Secretary	07/31/98	06/25/02
Barbara Boyce	Secretary	07/31/98	11/01/99
Jay Marshall	Manager	07/31/98	8/18/06

**Directors:**

Robert E. Murray	07/31/98
P. Bruce Hill	08/18/06

**Owner:<sup>a</sup>**

Murray Energy Corp.

---

<sup>a</sup> Coal Resources, Inc. is incorrectly listed as a shareholder the AVS OFT. Coal Resources, Inc has never been a shareholder of UEI.

**Section 4**

ANDALEX RESOURCES, INC.  
P.O. Box 902  
6750 North Airport Road  
Price, UT 84501

**Officers:**

		<u>Begin</u>	<u>End</u>
P. Bruce Hill	President and Chief Executive Officer	12/16/06	
Douglas H. Smith	President	03/07/94	12/16/06
Robert D. Moore	Treasurer	08/18/06	
Michael O. McKown	Secretary	08/18/06	

**Former Officers/Directors:**

Peter B. Green	Director	01/05/98	08/18/06
Peter B. Green	CB	05/11/90	08/18/06
Peter B. Green	CEO	05/11/90	08/18/06
Ronald C. Beedie	Director	01/05/88	08/18/06
John Bradshaw	Secretary	02/05/90	08/18/06
John Bradshaw	Vice-President	02/05/90	08/18/06
Douglas H. Smith	Director	03/07/94	08/18/06
Samuel C. Quigley	Vice-President	02/24/95	08/18/06
Andalex Hungary Ltd.	Shareholder	12/28/20	08/18/06
Alexander Harold Samuel Green	Director	01/11/02	08/18/06

**Directors:**

Robert E. Murray	08/18/06
P. Bruce Hill	08/18/06

**Owner:**

UtahAmerican Energy, Inc.	100%	08/18/06
---------------------------	------	----------

**MSHA Numbers**

Apex Mine	42-01750
Pinnacle Mine	42-01474
Aberdeen Mine	42-02028
Wildcat Loadout	42-01864

**Section 5**

AMCA COAL LEASING, INC.  
P.O. Box 902  
6750 North Airport Road  
Price, UT 84501

Appointment of Officers:

		<u>Begin</u>	<u>End</u>
P. Bruce Hill	President and Chief Executive Officer	12/16/06	
Douglas H. Smith	President	08/18/06	12/16/06
Robert D. Moore	Treasurer	12/16/06	
Michael O. McKown	Secretary	12/16/06	

Directors:

Robert E. Murray	08/18/06
P. Bruce Hill	08/18/06

Owner:

UtahAmerican Energy, Inc., 100% ownership	08/18/06
---	----------

**Section 6**

ANDALEX RESOURCES MANAGEMENT, INC.  
P.O. Box 902  
6750 North Airport Road  
Price, UT 84501

**Appointment of Officers:**

		<u>Begin</u>	<u>End</u>
Douglas H. Smith	President	08/18/06	12/16/06
P. Bruce Hill	President and Chief Executive Officer	12/16/06	
Robert D. Moore	Treasurer	12/16/06	
Michael O. McKown	Secretary	12/16/06	

**Directors:**

Robert E. Murray	08/18/06
P. Bruce Hill	08/18/06

**Shareholders:**

UtahAmerican Energy, Inc.	100%	08/18/06
---------------------------	------	----------

**Section 7**

GENWAL RESOURCES, INC.  
P.O. Box 1077  
Price, UT 84501

**Officers:**

		<u>Begin</u>	<u>End</u>
Douglas H. Smith	President	08/18/06	12/16/06
P. Bruce Hill			
P. Bruce Hill	President and Chief Executive Officer	12/16/06	
Robert D. Moore	Treasurer	12/16/06	
Michael O. McKown	Secretary	12/16/06	

**Directors:**

Robert E. Murray	08/18/06
P. Bruce Hill	08/18/06

**Former Directors:**

Peter B. Green	8/9/06
Ronald C. Beedie	8/9/06
Douglas H. Smith	8/18/06
Gordon Ulrich	10/30/96

**Former Officers:**

Peter B. Green	Chairman & CEO	8/9/06
Samuel C. Quigley	Vice President	8/18/06
John Bradshaw	Vice President	5/17/05
John Bradshaw	Secretary & Treasurer	8/18/06
Douglas H. Smith	President	12/16/06

**Owner:**

ANDALEX Resources, Inc. is and remains the sole shareholder of Genwal Resources, Inc.<sup>a</sup>

**MSHA Numbers**

Crandall Canyon Mine      42-01715

<sup>a</sup> Intermountain Power Agency holds, as a tenant in common, an undivided 50% interest in certain real property interests regarding the Crandall Canyon Mine.

**Section 8**

WEST RIDGE RESOURCES, INC.<sup>a</sup>

P.O. Box 1077

Price, UT 84501

**Officers:**

		<u>Begin</u>	<u>End</u>
Douglas H. Smith	President	08/18/06	12/16/06
P. Bruce Hill	President and Chief Executive Officer	12/16/06	
Robert D. Moore	Treasurer	12/16/06	
Michael O. McKown	Secretary	12/16/06	

**Directors:**

Robert E. Murray	08/18/06
P. Bruce Hill	08/18/06

**Owner:**

Andalex Resources, Inc.<sup>b</sup> 100%

<u>Former Directors<sup>c</sup></u>	<u>Begin Date</u>	<u>End Date</u>
Peter B. Green	4/1/98	8/9/06
Ronald C. Beedie	4/1/98	8/9/06
Douglas H. Smith	4/1/98	9/18/06

<u>Former Officers<sup>d</sup></u>	<u>Position</u>	<u>Begin Date</u>	<u>End Date</u>
Peter B. Green	Chairman & CEO	4/15/98	8/9/06
Samuel C. Quigley	Vice President	4/15/98	8/18/06
John Bradshaw	Secretary	4/15/98	8/18/06
Douglas H. Smith	President	4/15/98	12/16/06

**MSHA Number**

West Ridge Mine 42-022444

<sup>a</sup> WEST RIDGE Resources, Inc. ("WRRRI") was formed on March 10, 1998. No actions of WRRRI occurred before that date.

<sup>b</sup> ANDALEX Resources is (and remains) the sole shareholder of WRRRI. WRRRI and the Intermountain Power Agency hold certain real property interests as tenants in common, each owning a 50% interest therein.

<sup>c</sup> The initial directors of WRRRI (as shown above) were appointed on April 1, 1998; the "Begin Date[s]" for each such director shown on the OFT form are incorrect.

<sup>d</sup> The initial officers of WRRRI (as shown above) were appointed on April 15, 1998; the "Begin Date[s]" for each such officer shown on the OFT form are incorrect. Also, Christopher G. Van Bever never served as an officer of WRRRI; the information shown on the OFT form to the contrary is incorrect.

**Section 9**

**INTERMOUNTAIN POWER AGENCY**

(Tenant in Common, 50% undivided interest; West Ridge Mine Permit C/007/041; Crandall Canyon Mine Permit C/015/032)<sup>a</sup>

10653 South River Front Parkway, Suite 120  
South Jordan, Utah 84095  
(801) 938-1333

**Appointment of Officers:**

Ray Farrell	Chairman	12/1998
R. Leon Bowler	Vice-Chairman	12/1984
Ted L. Olson	Secretary	01/2002
Russell F. Fjeldsted	Treasurer	03/2007

**Directors:**

	<u>Begin Date</u>	<u>End Date</u>
R. Leon Bowler	06/1977	
Ray Farrell	11/1978	
Clifford C. Michaelis <sup>b</sup>	01/1988	6/2007
Ted L. Olson	01/1990	
Russell F. Fjeldsted	01/1992	
Walter Meacham	01/1999	
Gary O. Merrill	01/2002	6/2007
Robert O. Christiansen	06/2007	
Ed Collins	06/2007	

<sup>a</sup> Intermountain Power Agency holds, as a tenant in common, an undivided 50% interest in certain real property interests regarding the West Ridge Mine and the Crandall Canyon Mine.

<sup>b</sup> Replacing controller Dan R. Eldredge, serving from April 11, 1988 to January 1990.

Name and address of IPA's general manager:

Jim Hewlett  
Intermountain Power Agency  
10653 South River Front Parkway, Suite 120  
South Jordan, Utah 84095  
Telephone (801) 938-1333  
Assumed position December 1, 2007

Resident Agent for IPA:

Mark Buchi  
Holme, Roberts, and Owen  
299 South Main, Suite 1800  
Salt Lake City, Utah 84111  
Assumed position January, 1988

IPA Designated representative to the Crandall Canyon Project and West Ridge Project Management Boards:

Aram Benyamin  
Operating Agent  
Los Angeles Department of Water & Power  
111 North Hope Street, Room 1263  
Los Angeles, California 90012-2694  
Telephone (213) 367-0286

Principle Shareholders of IPA:

IPA has no shareholders. IPA is a political subdivision of the State of Utah created under the Interlocal Cooperation Act, Title II, Chapter 13, Utah Code Ann. 1953, as amended, and as such, has not issued stock.

**Section 10**

MURRAY ENERGY AFFILIATE COMPANIES

**AMCOAL HOLDINGS, INC.**

10/10/05-blr

**Principal Office:**

29325 Chagrin Boulevard  
Suite 300  
Pepper Pike, Ohio 44122

101 Prosperous Place  
Suite 125  
Lexington, Kentucky 40509

Officers:

Robert E. Murray	President	5/23/03
P. Bruce Hill	Vice President – Human Resources	10/01/98
Robert D. Moore	Treasurer	10/01/98
Michael O. McKown	Secretary	3/1/05
Jeffrey L. Cash	Assistant Treasurer	11/01/99

Incorporation Information:

State of Incorporation: Ohio;  
Charter No. 1007981

Date of Incorporation: June 12, 1998

ID #34-1867389

Shareholders: Murray Energy Corporation

Directors: Robert E. Murray

Revised 2/14/05

THE AMERICAN COAL COMPANY

**Principal Office:**

29325 Chagrin Boulevard  
Suite 300 P. O. Box 727  
Pepper Pike, Ohio 44122 Harrisburg, Illinois 62946

Officers:

Robert E. Murray	Acting President	11/02/02
John R. Forrelli	Vice President	9/07/04
Michael O. McKown	Vice President, General Counsel and Secretary	3/15/99 3/1/05
P. Bruce Hill	Vice President – Human Resources	10/01/98
Robert D. Moore	Treasurer	10/01/98
Jeffrey L. Cash	Assistant Treasurer and Assistant Secretary	11/01/99 6/01/01

Incorporation Information:

State of Incorporation	Delaware; Charter No. 2881631
Date of Incorporation	June 2, 1998
ID #73-1543124	

Shareholders: AmCoal Holdings, Inc.

Directors: Robert E. Murray

Revised: 2/14/05

## THE AMERICAN COAL SALES COMPANY

29325 Chagrin Boulevard  
Suite 300  
Pepper Pike, Ohio 44122

### Officers:

		<u>Begin</u>	<u>End</u>
Robert E. Murray	Chief Executive Officer	11/11/88	
B. J. Cornelius	President	9/08/95	
Edwin D. Lane	Vice President	11/01/99	3/1/05
William E. Hollars	Vice President	3/1/05	
Richard Rice	Vice President	11/11/88	11/01/99
Michael O. McKown	Secretary	3/1/05	
Steven C. Ellis	Secretary	11/10/88	3/1/05
James R. Turner, Jr.	Treasurer and Assistant Secretary	3/1/05	
Duane A. Smith	Assistant Treasurer and Assistant Secretary	6/25/01	
Brenda L. Murray	Assistant Secretary	9/8/95	6/25/01

### Incorporation Information:

State of Incorporation                      Ohio; Charter No. 727836

Date of Incorporation                        June 29, 1988

ID #34-1603699

Shareholder:                                      Coal Resources, Inc.

Directors:                                        Robert E. Murray                                      9/08/95

Revised  
5/2/07

**AMERICAN COMPLIANCE COAL, INC.**

29325 Chagrin Boulevard  
Suite 300  
Pepper Pike, Ohio 44122

Officers:

		<u>Begin</u>	<u>End</u>
Stanley T. Piasecki	President	3/1/05	
Charles E. Shestak	Vice President	03/10/03	
Michael O. McKown	Secretary	3/1/05	
Robert D. Moore	Treasurer and Assistant Secretary	6/25/01	
Elmer A. Mottillo	Assistant Treasurer	6/25/01	
		8/22/03	

Former Officers:

Clyde I. Borrell	President	6/02/97	3/1/05
William W. Taft	Secretary	5/24/94	3/1/05

Incorporation Information:

State of Incorporation Colorado;  
Charter No. 19941059260

Date of Incorporation May 24, 1994

ID #34-1797161

Shareholder:

Murray Energy Corporation (100%)	6/1/01	
Robert E. Murray	5/24/94	2/23/01

Director:

Robert E. Murray	5/24/94
------------------	---------

Revised  
5/2/07

**AMERICAN ENERGY CORPORATION**

43521 Mayhugh Hill Road  
Township Highway 88  
Beallsville, Ohio 43716

Officers:

		<u>Begin</u>	<u>End</u>
Robert E. Murray	President	12/15/04	
Robert D. Moore	President	6/25/01	12/15/04
Michael O. McKown	Secretary	11/01/99	
James R. Turner, Jr.	Treasurer	3/1/05	
Robert D. Moore	Treasurer	6/25/01	12/15/04
Robert L. Putsock	Assistant Treasurer	1/27/04	

Incorporation Information:

State of Incorporation      Ohio;  
Charter No. 00842695

Date of Incorporation      April 12, 1993  
ID #31-1550443

Shareholder:                      Murray Energy Corporation  
(100%)

Director:

Robert E. Murray	12/15/04	
P. Bruce Hill	7/02/01	12/15/04

Revised  
3/16/07

**ANCHOR LONGWALL AND REBUILD, INC.**

One Industrial Park Drive  
Wheeling, West Virginia 26003

Officers:

		<u>Begin</u>	<u>End</u>
P. Bruce Hill	President and Assistant Secretary	2/16/99	11/10/06
Chad Underkoffler	President	2/16/99	
Michael O. McKown	Secretary	11/10/06	
James R. Turner, Jr.	Treasurer	11/01/99	
Duane A. Smith	Assistant Secretary	9/16/05	
		11/01/99	

Incorporation Information:

State of Incorporation      West Virginia;  
Charter No. 00961100093212818

Date of Incorporation      April 18, 1996

ID #55-0749933

Shareholder:

I.D. # 34-1586390  
Address: 29325 Chagrin  
Boulevard  
Suite 300  
Pepper Pike, OH 44122

Coal Resources, Inc.

Director:

Charles E. Shestak	11/01/99
P. Keith McGilton	11/01/99

Revised  
3/6/07

**AVONMORE RAIL LOADING, INC.**

125 Old Farm Drive,  
Pittsburgh, PA 15239

Officers:

P. Bruce Hill	President	6/25/01
Robert D. Moore	Treasurer	6/25/01
Michael O. McKown	Secretary	3/1/05
Robert L. Putsock	Assistant Treasurer	1/02/03
Elmer A. Mottillo	Assistant Secretary	1/02/03

Incorporation Information:

State of Incorporation	Delaware; Charter No. 0798860
Date of Incorporation Qualified	February 19, 1974 May 6, 1974 Pennsylvania; PA Entity #000302999
ID #25-1253970	

Shareholder: Mill Creek Mining Company

Director: Charles E. Shestak

Revised: 2/14/05

**BELMONT COAL, INC.**

P. O. Box 146  
Powhatan, Ohio 43942

Officers:

		<u>Begin</u>	<u>End</u>
Robert D. Moore	President	6/25/01	
Maynard St. John	Vice-President	1/02/02	6/26/02
James R. Turner, Jr.	Secretary/Treasurer	9/16/05	
Kristi D. Brown	Secretary/Treasurer	11/08/01	9/16/05

Incorporation Information:

State of Incorporation      Ohio;  
Charter No. 00842697

Date of Incorporation      April 12, 1993

ID #31-1536602

Shareholder:

Murray Energy Corporation (100%)	6/1/01	
Robert E. Murray	4/19/93	6/1/01

Director:

Duane A. Smith	4/12/93	12/15/06
Robert D. Moore	12/15/06	

Revised  
3/6/07

125 Old Farm Drive  
Pittsburgh, PA 15239

**CANTERBURY COAL COMPANY**

Officers:

P. Bruce Hill	President and General Manager	6/25/01
Robert D. Moore	Secretary and Treasurer	6/25/01 6/25/01
Robert L. Putsock	Assistant Treasurer	1/02/03
Elmer A. Mottillo	Assistant Secretary	1/02/03

Incorporation Information:

State of Incorporation	Pennsylvania; PA Entity #000055242
Date of Incorporation	July 26, 1963
ID #25-1127473	

<u>Shareholder:</u>	Mill Creek Mining Company (100%)
---------------------	-------------------------------------

<u>Director:</u>	Charles E. Shestak
------------------	--------------------

Revised  
3/6/07

**COAL RESOURCES HOLDINGS CO.**

29325 Chagrin Boulevard  
Suite 300  
Pepper Pike, Ohio 44122

Officers:

		<u>Begin</u>	<u>End</u>
Robert E. Murray	President and CEO	6/27/03	
Michael D. Loiacono	Treasurer	6/27/03	
	CFO	12/20/05	04/23/07
Robert D. Moore	CFO	04/23/07	
Scott A. Boyle	Chief Financial Officer	10/29/05	12/20/05
P. Bruce Hill	Secretary	3/1/05	11/01/05
Michael O. McKown	Secretary	11/01/05	
Robert L. Putsock	Assistant Secretary and Assistant Treasurer	6/25/01	
		6/25/01	

Incorporation Information:

State of Incorporation Delaware;  
Charter No. 3676954

Date of Incorporation June 27, 2003

ID #20-0100479

Shareholder:

Robert E. Murray (Class A Shares 100%)  
Robert Eugene Murray (Class B Shares 20%)  
Robert Edward Murray (Class B Shares 20%)  
Ryan Michael Murray (Class B Shares 20%)  
Jonathan Robert Murray (Class B Shares 20%)  
Fifth Third Bank of Northeast Ohio, Trustee (Class B Shares 20%)

Director:

Robert E. Murray 6/27/03

Revised  
5/10/07

29325 Chagrin Boulevard  
Suite 300  
Pepper Pike, Ohio 44122

**COAL RESOURCES, INC.**

Officers:

		<u>Begin</u>	<u>End</u>
Robert E. Murray	Chairman, President and Chief Executive Officer	3/1/05	
Michael D. Loiacono	Treasurer	1/28/05	
Robert D. Moore	CFO	12/20/05	04/23/07
Scott A. Boyle	CFO	04/23/07	
	Chief Financial Officer	10/17/05	12/20/05
P. Bruce Hill	Secretary	3/1/05	11/01/05
Michael O. McKown	Secretary	11/01/05	
Robert L. Putsock	Assistant Secretary and Assistant Treasurer	6/25/01	6/25/01

Incorporation Information:

State of Incorporation: Ohio;  
Charter No. 717546

Date of Incorporation: January 29, 1988

ID #34-1586390

Shareholder:

Coal Resources Holdings Co.	10/21/03	
Robert E. Murray	1/29/88	10/21/03

Directors:

Robert E. Murray		
Henry W. Fayne		
Andrew Weissman		
Richard L. Lawson		
Michael D. Loiacono	12/20/05	04/23/07
Robert D. Moore	04/23/07	

Revised  
5/10/07

**CONSOLIDATED LAND COMPANY**

29325 Chagrin Boulevard  
Suite 300  
Pepper Pike, Ohio 44122

Officers:

Robert D. Moore	President	8/11/04
Robert D. Moore	Treasurer and Assistant Secretary	6/25/01 6/25/01
Michael O. McKown	Secretary	3/1/05
Elmer A. Mottillo	Assistant Secretary	8/22/03

Incorporation Information:

State of Incorporation	Ohio; Charter No. 00842696
Date of Incorporation	April 12, 1993
ID #34-1769562	

<u>Shareholder:</u>	Murray Energy Corporation (100%)	6/1/01
---------------------	-------------------------------------	--------

<u>Director:</u>	Robert D. Moore	8/11/04
------------------	-----------------	---------

Revised  
3/6/07

**ENERGY RESOURCES, INC.**

P. O. Box 259  
R. D.#2, Fermantown Road  
Brockway, PA 15824

Officers:

Stanley T. Piasecki	President and Chief Executive Officer	8/11/04
Elmer A. Mottillo	Treasurer	8/22/03
Michael O. McKown	Secretary	3/1/05
Charles E. Shestak	Assistant Secretary	4/30/93

Incorporation Information:

State of Incorporation	Pennsylvania; PA Entity #762734
Date of Incorporation	September 14, 1982
ID #31-1044044	

Shareholder: Mill Creek Mining Company

Director: Stanley T. Piasecki 8/11/04

Revised 2/14/05

**THE HOCKING VALLEY RESOURCES COMPANY**

29325 Chagrin Boulevard  
Suite 300  
Pepper Pike, Ohio 44122

Officers:

P. Bruce Hill	President	3/1/05
Michael D. Loiacono	Secretary and Treasurer	4/05/93

Incorporation Information:

State of Incorporation	Ohio; Charter No. 755531
------------------------	-----------------------------

Date of Incorporation	August 25, 1989
-----------------------	-----------------

ID #34-1635301

Shareholder:

Ohio Valley Resources, Inc.

Director:

Robert E. Murray	4/05/93
------------------	---------

Revised  
3/6/07

101 Prosperous Place  
Suite 125  
Lexington, Kentucky 40509

**KENAMERICAN RESOURCES, INC.**

Officers:

		<u>Begin</u>	<u>End</u>
Robert N. Sandidge	President	12/16/06	
Dennis W. Bryant	President/Manager	10/1/05	12/16/06
B. J. Cornelli	Senior Vice-President--Sales	11/1/05	
James R. Turner, Jr.	Treasurer	3/1/05	
Robert D. Moore	Assistant Treasurer	3/1/05	
Michael O. McKown	Secretary	2/13/06	

Incorporation Information:

State of Incorporation      Kentucky;  
   Charter No. 0331655

Date of Incorporation      June 9, 1994

ID #61-1264385

Shareholder:                      Mill Creek Mining Company

Director:                              Robert E. Murray                      6/1/05

Revised  
3/6/07

**MAPLE CREEK MINING, INC.**

**Principal Office:**

29325 Chagrin Boulevard  
Suite 300  
Pepper Pike, Ohio 44122

981 Route 917  
Bentleyville, Pennsylvania 15314

Officers:

		<u>Begin</u>	<u>End</u>
Paul B. Piccolini	President	4/28/06	
Ronnie D. Dietz	Vice President and Treasurer	3/1/05	
Michael B. Gardner VACANT	Secretary	3/1/05	5/01/07
Roberta K. Heil	Assistant Secretary	11/01/99	

Incorporation Information:

State of Incorporation	Pennsylvania; PA Entity #2607113
Date of Incorporation	November 9, 1994
ID #25-1755305	

<u>Shareholder:</u>	Sunburst Resources, Inc.	1/11/95
---------------------	--------------------------	---------

<u>Director:</u>	Robert E. Murray
------------------	------------------

MILL CREEK MINING COMPANY

P. O. Box 259  
R. D. #2, Fermantown Road  
Brockway, PA 15824

Officers:

		<u>Begin</u>	<u>End</u>
Charles E. Shestak	President	8/18/98	
James R. Turner, Jr.	Treasurer	3/1/05	
Robert D. Moore	Treasurer	6/25/01	3/1/05
Robert D. Moore	Assistant Treasurer	3/1/05	
Michael O. McKown	Secretary	3/1/05	
Michael E. Elliott	Secretary	8-18-98	3/1/05
Robert L. Putsock	Assistant Secretary and Assistant Treasurer	6/25/01 6/25/01	

Incorporation Information:

State of Incorporation      Pennsylvania;  
PA Entity #0007447787

Date of Incorporation      December 1, 1981

Certificate of Amendment      July 7, 1988;  
#8854525

ID #31-1040986

Shareholder:      Coal Resources, Inc.

Director:      Robert E. Murray      5/14/04

Revised  
3/6/07

**MONVALLEY TRANSPORTATION CENTER, INC.**

P. O. Box 135  
1060 Ohio Avenue  
Glassport, Pennsylvania 15045

Officers:

Paul B. Piccolini	President	4/28/06
James R. Turner, Jr.	Secretary and Treasurer	3/1/05

Incorporation Information:

State of Incorporation	Pennsylvania; PA Entity #856918
------------------------	------------------------------------

Date of Incorporation	February 15, 1985
-----------------------	-------------------

ID #25-1490495

<u>Shareholders:</u>	Pennsylvania Transloading, Inc.
----------------------	---------------------------------

<u>Directors:</u>	Robert E. Murray and Michael D. Loiacono	11/01/99
-------------------	---	----------

MURRAY ENERGY CORPORATION

29325 Chagrin Boulevard, Suite 300  
Pepper Pike, Ohio 44122

Officers:

		<u>Begin</u>	<u>End</u>
Robert E. Murray	Chairman, President, & Chief Executive Officer	02/23/01	
John R. Forrelli	Vice President	12/18/03	12/17/04
Robert D. Moore	Vice President & Chief Financial Officer	12/17/04	
P. Bruce Hill	Vice President/Human Resources	04/23/07	
Michael D. Loiacono	Treasurer	12/18/03	
Robert D. Moore	Chief Financial Officer	02/23/01	04/23/07
Michael O. McKown	CFO	12/20/05	
	Secretary	04/23/07	
		02/23/01	

Incorporation Information:

State of Incorporation Ohio;  
Charter No. 1211519

Date of Incorporation February 23, 2001

ID #34-1956752

Shareholder:

Robert E. Murray	02/23/01	10/21/03
Murray Energy Holdings Co.	10/21/03	
100%		

Directors:

Robert E. Murray	02/23/01	
Michael D. Loiacono	01/28/05	04/23/07
Henry W. Fayne	01/28/05	
Richard L. Lawson	01/28/05	
Andrew D. Weissman	10/23/03	
Robert D. Moore	04/23/07	

Revised 5/10/07

MURRAY ENERGY HOLDINGS CO.

29325 Chagrin Boulevard, Suite 300  
Pepper Pike, Ohio 44122

Officers:

Robert E. Murray	President & CEO	6/30/03	11/29/05
Scott Boyle	President & CEO	11/29/05	12/20/05
Michael D. Loiacono	President & CEO	1/10/05	4/23/07
Robert D. Moore	President & CEO	4/23/07	
Michael D. Loiacono	Treasurer	1/10/05	
		6/30/03	
Michael O. McKown	Secretary	6/30/03	

Incorporation Information:

State of Incorporation Delaware;  
Charter No. 3676958

Date of Incorporation June 27, 2003

ID # 20-0100463

Shareholders:

Robert Eugene Murray  
Robert Edward Murray  
Jonathan Robert Murray  
Ryan Michael Murray  
Fifth Third Bank of  
Northeast Ohio, Trustee

Directors:

Robert E. Murray	6/30/03	
Michael D. Loiacono	6/30/03	4/23/07
Michael O. McKown	6/30/03	
Robert D. Moore	4/23/07	

**OHIOAMERICAN ENERGY INCORPORATED**

29325 Chagrin Boulevard  
Suite 300  
Pepper Pike, Ohio 44122

Officers:

D. Michael Jamison	President	5/1/05
Michael O. McKown	Secretary	5/1/05
Robert D. Moore	Treasurer	5/1/05
Elmer A. Mottillo	Assistant Treasurer	6/30/06

Incorporation Information:

State of Incorporation	Ohio
Date of Incorporation	February 1, 2005
ID # 20-3044610	Ohio Charter No. 1518533

Director: Robert E. Murray 5/1/05

Shareholder: Murray Energy Corporation 5/1/05

Revised  
3/6/07

**THE OHIO VALLEY COAL COMPANY**

**Principal Office:**  
56854 Pleasant Ridge Road  
Alledonia, Ohio 43901

29325 Chagrin Boulevard  
Suite 300  
Pepper Pike, Ohio 44122

Officers:

		<u>Begin</u>	<u>End</u>
Vacant	President	11/4/05	
Paul B. Piccolini	Vice President	1/1/07	
Ronnie D. Dietz	Treasurer, Assistant Secretary and Corporate Comptroller	3/1/05	
Michael B. Gardner	Secretary	3/1/05	5/01/07
Roberta K. Heil	Assistant Secretary	11/01/99	
Bonnie M. Froehlich	Assistant Secretary and Assistant Treasurer	6/25/01 6/25/01	

Incorporation Information:

State of Incorporation      Ohio;  
Charter No. 384971

Date of Incorporation      June 6, 1969

Certificate of Amendment      October 4, 1988;  
#201274

ID #34-1041310

Shareholder:      Ohio Valley Resources, Inc.

Director:      Robert E. Murray

Revised  
5/2/07

29325 Chagrin Boulevard  
Suite 300  
Pepper Pike, Ohio 44122

**OHIO VALLEY RESOURCES, INC.**

Officers:

		<u>Begin</u>	<u>End</u>
Paul B. Piccolini	President	4/28/06	
John Forrelli	President	11/1/99	4/28/06
Ronnie D. Dietz	Treasurer, Assistant Secretary and Corporate Comptroller	3/1/05	
Michael D. Loiacono	Treasurer, Assistant Secretary and Corporate Comptroller	3/10/95	4/28/06
VACANT	Secretary	3/1/05	05/01/07
Stephen Ellis	Secretary	3/10/95	3/1/05

Incorporation Information:

State of Incorporation      Ohio;  
Charter No. 721514

Date of Incorporation      March 29, 1988

ID #34-1586391

Shareholders:

Murray Energy Corporation	6/1/01	
(100%)		
Robert E. Murray	3/10/95	6/1/01

Director:

Robert E. Murray

Revised  
3/6/07

# THE OHIO VALLEY TRANSLOADING COMPANY

56854 Pleasant Ridge Road  
Alledonia, Ohio 43902

## Officers:

		<u>Begin</u>	<u>End</u>
Vacant	President	11/4/05	
Paul B. Piccolini	Vice-President	1/1/07	
Ronnie D. Dietz	Treasurer, Assistant Secretary and Corporate Comptroller	3/1/05	
Michael B. Gardner	Secretary	3/1/05	05/01/07
Roberta K. Heil	Assistant Secretary	9/01/00	

## Incorporation Information:

State of Incorporation	Ohio; Charter No. 727835
Date of Incorporation	June 29, 1988
ID #34-1611209	

Shareholder: Ohio Valley Resources, Inc.

Director: Robert E. Murray 4/06/93

Revised  
3/6/07

## THE OKLAHOMA COAL COMPANY

29325 Chagrin Boulevard  
Suite 300  
Pepper Pike, Ohio 44122

### Officers:

		<u>Begin</u>	<u>End</u>
Paul B. Piccolini	President	4/28/06	
Gregory C. Smith	President	11/1/99	4/28/06
Michael O. McKown	Secretary	3/1/05	
Gregory A. Gorospe	Secretary	9/15/94	11/1/99
James R. Turner, Jr.	Treasurer and Assistant Secretary	3/1/05	
Kathleen Bednarek	Treasurer	6/20/00	6/26/00
Robert L. Putsock	Assistant Secretary	1/10/03	
Kathleen Bednarek	Assistant Secretary	9/3/96	6/26/00

### Incorporation Information:

State of Incorporation    Oklahoma;  
Charter No. DB00477836

Date of Incorporation    April 17, 1989

Licensed in Ohio        February 27, 1991;  
FL 790739

ID #34-1673480

Shareholder:        The American Coal Sales Company

Director:            Robert E. Murray

Revised  
3/6/07

ONEIDA COAL COMPANY, INC.

29325 Chagrin Boulevard  
Suite 300  
Pepper Pike, Ohio 44122

Officers:

		<u>Begin</u>	<u>End</u>
Robert D. Moore	President and	06/25/01	
	Treasurer	11/01/99	
Robert L. Putsock	Assistant Secretary	06/25/01	
Michael O. McKown	Secretary	03/1/05	

Former Officers:

John Blaine Earles	Vice-President	2/28/92	7/2/93
Tivis Arnold Graybeal	Secretary	2/28/92	4/28/94
Anthony Carl Laplaca	Secretary	4/28/94	11/1/99
Joseph R. Bourgo	Vice-President	9/1/92	10/20/00
Joseph R. Bourgo	Treasurer	4/28/94	10/20/00
Norma Jean Mccourt	Assistant Secretary	4/28/94	11/1/99

Incorporation Information:

State of Incorporation      West Virginia;  
Charter No.  
00000020004097TAX

Date of Incorporation      August 29, 1983

ID #62-1011712

Shareholder:      West Virginia Resources, Inc.    2/28/92  
(100%)

Daryl Napier      02/28/92

Director:      Robert E. Murray

Revised 5/2/07

125 Old Farm Drive  
Pittsburgh, PA 15239

**PENNAMERICAN COAL, INC.**

Officers:

P. Bruce Hill	President	6/25/01
Robert D. Moore	Treasurer and Secretary	6/25/01 6/25/01
Robert L. Putsock	Assistant Secretary	6/25/01

Incorporation Information:

State of Incorporation	Pennsylvania; PA Entity #2545905
Date of Incorporation	September 13, 1993
ID #25-1722115	

<u>Shareholder:</u>	Mill Creek Mining Co.	11/08/93
---------------------	-----------------------	----------

<u>Director:</u>	Robert E. Murray
------------------	------------------

Revised 2/14/05

PENNAMERICAN COAL LP

125 Old Farm Drive  
Pittsburgh, PA 15239

Partners:

Pinski Corp.	Managing Partner	8/19/96
PennAmerican Coal, Inc.	Limited Partner	7/8/98

EIN# 25-1800809  
Partnership Effective 7/8/98

Revised  
3/6/07

**PENNSYLVANIA TRANSLOADING, INC.**

29325 Chagrin Boulevard  
Suite 300  
Pepper Pike, Ohio 44122

Officers:

Paul B. Piccolini	President	4/28/06
James R. Turner, Jr.	Treasurer	3/1/05
Michael O. McKown	Secretary	3/1/05

Incorporation Information:

State of Incorporation                      Ohio;  
Charter No. 736747

Date of Incorporation                      November 18, 1988

Qualified:                                      Pennsylvania;  
December 28, 1988

Certificate of Authority                      No. 8898868

ID #34-1603748

Shareholder:                                      Sunburst Resources, Inc.                      04/01/96  
(100%)

Director:    Robert E. Murray

a

Revised  
5/10/07

---

<sup>a</sup> Sunburst Resources, Inc. has always been a shareholder and has no relation to Consolidated Land Company.

125 Old Farm Drive  
Pittsburgh, PA 15239

PINSKI CORP.

Officers:

P. Bruce Hill	President and General Manager	9/05/00
Robert D. Moore	Treasurer and Secretary	6/25/01 6/25/01
Robert L. Putsock	Assistant Treasurer and Assistant Secretary	6/25/01 6/25/01

Incorporation Information:

State of Incorporation	Pennsylvania PA Entity #02710766
Date of Incorporation	August 19, 1996
ID #25-1800870	

Shareholder:

PennAmerican Coal, Inc.

Director:

Charles E. Shestak

Revised 2/14/05

SPRING CHURCH COAL COMPANY

125 Old Farm Drive  
Pittsburgh, PA 15239

Officers:

P. Bruce Hill	President	6/25/01
Robert D. Moore	Secretary and Treasurer	6/25/01 6/25/01
Robert L. Putsock	Assistant Treasurer	1/02/03
Elmer A. Mottillo	Assistant Secretary	1/02/03

Incorporation Information:

State of Incorporation	Pennsylvania; PA Entity #000696663
Date of Incorporation	November 2, 1979
ID #25-1372128	

Shareholder: Mill Creek Mining Company

Director: Charles E. Shestak

Revised: 2/14/05

**SUNBURST RESOURCES, INC.**

586 National Road  
Wheeling, West Virginia 26003

Officers:

		<u>Begin</u>	<u>End</u>
Paul B. Piccolini	President	4/28/06	
Ronnie D. Dietz	Treasurer	3/1/05	
Michael B. Gardner	Secretary	3/1/05	05/01/07

Incorporation Information:

State of Incorporation      Pennsylvania;  
PA Entity #2616384

Date of Incorporation      January 10, 1995

ID #25-1766427

Shareholder:      Ohio Valley Resources, Inc.      4/01/97

Director:      Robert E. Murray

Revised  
3/7/07

TDK COAL SALES, INCORPORATED

P. O. Box 259  
R. D. #2, Fermantown Road  
Brockway, PA 15824

Officers:

Stanley T. Piasecki	President and Chief Executive Officer	8/11/04
Elmer A. Mottillo	Treasurer	8/22/03
Michael O. McKown	Secretary	3/1/05
Charles E. Shestak	Assistant Secretary	2/01/99

Incorporation Information:

State of Incorporation	Pennsylvania; PA Entity #00758582
Date of Incorporation	June 28, 1982
ID #25-1422374	

Shareholder: Energy Resources, Inc.

Director: Stanley T. Piasecki 8/11/04

Revised: 02/14/05

**UMCO ENERGY, INC.**

29325 Chagrin Boulevard  
Suite 300  
Pepper Pike, Ohio 44122

Officers:

		<u>Begin</u>	<u>End</u>
Paul B. Piccolini	President	4/28/06	
Ronnie D. Dietz	Treasurer and Assistant Secretary	3/1/05	
Michael B. Gardner	Secretary Vice-President	3/1/05 5/3/06	05/01/07

Incorporation Information:

State of Incorporation      Pennsylvania;  
PA Entity #1072295

Date of Incorporation      December 29, 1988

ID #52-1615668

Shareholder:              Maple Creek Mining, Inc.  
and Toni J. Southern

Director:                    Robert E. Murray

Revised  
3/6/07

**UTAHAMERICAN ENERGY, INC.**

P.O. Box 902  
6750 North Airport Road  
Price, Utah 84501

Officers:

		<u>Begin</u>	<u>End</u>
P. Bruce Hill	Chief Executive Officer	8/18/06	
P. Bruce Hill	President	12/16/06	
Douglas H. Smith	President	8/18/06	12/16/06
Clyde I. Borrell	President	7/31/98	5/19/06
Robert D. Moore	Treasurer	8/18/06	
Michael O. McKown	Secretary	8/18/06	
Marsha Baker Kocinski	Secretary	7/31/98	6/25/02
Barbara Boyce	Secretary	7/31/98	11/01/99
Jay Marshall	Manager	7/31/98	8/18/06

Incorporation Information:

State of Incorporation                      Utah;  
Charter No. 212673

Date of Incorporation                      July 30, 1998

ID #34-1874726

Shareholders:                              Murray Energy Corporation  
(100%)

Directors:                                  Robert E. Murray                      7/31/98  
P. Bruce Hill                              8/18/06

Revised  
5/2/07

**WEST VIRGINIA RESOURCES, INC.**

953 National Road  
Suite 207  
Wheeling, West Virginia 26003

Officers:

		<u>Begin</u>	<u>End</u>
Neil Kok	President	10/2/06	
Robert D. Moore	President	10/20/00	10/20/00
Robert E. Murray	President, CEO	12/27/91	10/20/00
Anne Besece	Treasurer and Secretary	10/2/06	
Robert L. Putsock	Treasurer and Assistant Secretary	6/25/01	10/2/06
Robert E. Murray	Treasurer	6/25/01	
Michael O. McKown	Secretary	12/27/91	6/25/01
Anthony Carl Laplaca	Secretary	3/1/05	10/2/06
		12/27/91	3/1/05

Incorporation Information:

State of Incorporation: West Virginia;  
Charter No. 00913610154813604

Date of Incorporation: December 27, 1991

ID #55-0713676

Shareholder: Mill Creek Mining Company 12/27/91  
(100%)

Director: Robert E. Murray

Revised  
3/6/07

**WYAMERICAN ENERGY, INC.**

29325 Chagrin Boulevard  
Suite 300  
Pepper Pike, Ohio 44122

Officers:

Robert D. Moore	President, Treasurer and Secretary	5/3/06
-----------------	---------------------------------------	--------

Incorporation Information:

State of Incorporation	Wyoming; Charter No. 1998003378171
Date of Incorporation	September 22, 1998
ID #34-1875051	

Shareholder:

Murray Energy Corporation

Director:

Robert E. Murray

Revised  
3/7/07

APPENDIX 1, PART 2

CURRENT AND PREVIOUS  
COAL MIMING PERMITS

**CURRENT AND PREVIOUS  
COAL MINING PERMITS**

<b>Company</b>	<b>Andalex Resources, Inc.</b>		<b>EIN: 61-0931325</b>		
<b>Address:</b>	<b>Permit #</b>	<b>State</b>	<b>Regulator Authority</b>	<b>MSHA #</b>	<b>Date Issued</b>
10 miles NE Airport Road, Price, Utah 84501	C/007/019 Centennial Project	Utah	Division of Oil, Gas and Mining	42-02028 42-01474 42-01750	
P.O. Box 902 Price, Utah 84501	C/007/033 Wildcat Loadout	Utah	Division of Oil, Gas and Mining	42-01864	

<b>Company</b>	<b>West Ridge Resources, Inc.</b>		<b>EIN: 87-0585129</b>		
<b>Address:</b>	<b>Permit #</b>	<b>State</b>	<b>Regulator Authority</b>	<b>MSHA #</b>	<b>Date Issued</b>
794 C Canyon Road East Carbon, Utah 84520	C/007/041 West Ridge Mine	Utah	Division of Oil, Gas and Mining	42-02233	March 12, 1999
P.O. Box 1077 Price, Utah 84501					

<b>Company</b>	<b>Genwal Resources, Inc.</b>		<b>EIN: 87-0533099</b>		
<b>Address:</b>	<b>Permit #</b>	<b>State</b>	<b>Regulator Authority</b>	<b>MSHA #</b>	<b>Date Issued</b>
794 C Canyon Road East Carbon, Utah 84520	C/015/032 Crandall Canyon Mines	Utah	Division of Oil, Gas and Mining	42-02356 42-01715	Nov 21, 1991
P.O. Box 1077 Price, Utah 84501					

<b>Company</b>	<b>Utah American Energy Inc.</b>		<b>EIN: 31-153-6602</b>		
<b>Address:</b>	<b>Permit #</b>	<b>State</b>	<b>Regulator Authority</b>	<b>MSHA #</b>	<b>Date Issued</b>
794 C Canyon Road East Carbon, Utah 84520	C/007/013 Horse/Lila Canyon	Utah	Division of Oil, Gas and Mining	42-00100 42-02241	
P.O. Box 986 Price, Utah 84501					

<b>Company</b>	<b>Belmont Coal, Inc.</b>		<b>EIN: 31-153-6602</b>		
<b>Address:</b>	<b>Permit #</b>	<b>State</b>	<b>Regulator Authority</b>	<b>MSHA #</b>	<b>Date Issued</b>
Belmont Coal, Inc. Box 156 30799 PineTree Road Pepper Pike, Ohio 44124	D-0241	Ohio	ODNR	33-04397	7-31-97
	D-1020	Ohio	ODNR	33-03048	7-2-93
<b>Company</b>	<b>KenAmerican Resources Inc.</b>		<b>EIN: 61-1264385</b>		
<b>Address:</b>	<b>Permit #</b>	<b>State</b>	<b>Regulator Authority</b>	<b>MSHA #</b>	<b>Date Issued</b>
KenAmerican Resources Inc. 1008 South Broadway Lexington Kentucky 40504	889-5009	KY	DSMRK	1517606	10-25-94
<b>Company</b>	<b>Onieda Coal Company Inc.</b>		<b>EIN: 62-1011712</b>		
<b>Address:</b>	<b>Permit #</b>	<b>State</b>	<b>Regulator Authority</b>	<b>MSHA #</b>	<b>Date Issued</b>
Onieda Coal Co. Inc., 29525 Chagrin Boulevard, Suite 111 Pepper Pike, Ohio 44122	U0-359	WV	DEP	46-05243	2-20-92
	U0-524	WV	DEP	46-06043	2-28-92
	U0-620	WV	DEP	46-06213	2-28-92
	D-7-82	WV	DEP	46-06557	2-28-92
	D-47-81	WV	DEP	46-06557	2-28-92
	D-46-82	WV	DEP	46-06522	2-28-92
	U-2016-89	WV	DEP	46-07757	2-28-92
	P-154-81	WV	DEP	N/A	N/A
	P-62-81	WV	DEP	N/A	N/A
	P-2043-89	WV	DEP	N/A	N/A
	S-2004-87	WV	DEP	46-06766	2-28-92
	S-71-85	WV	DEP	46-06766	2-28-92

<b>Company</b>	<b>MonValley Transportation Center Inc.</b>		<b>EIN: 62-1011712</b>		
<b>Address:</b>	<b>Permit #</b>	<b>State</b>	<b>Regulator Authority</b>	<b>MSHA #</b>	<b>Date Issued</b>
MonValley Trans Center Inc. P.O. Box 135 1060 Ohio Avenue Glassport, PA 15045	02851602	PA	DEP	N/A	N/A
<b>Company</b>	<b>Oklahoma Coal Co.</b>		<b>EIN: 34-1673480</b>		
<b>Address:</b>	<b>Permit #</b>	<b>State</b>	<b>Regulator Authority</b>	<b>MSHA #</b>	<b>Date Issued</b>
The Oklahoma Coal Co. Suite 111, 29525 Chagrin Blvd Pepper Pike, Ohio 44122	D-0230	OH	DOR	N/A	N/A
<b>Company</b>	<b>Maple Creek Mining Inc.,</b>		<b>EIN: 25-1755305</b>		
<b>Address:</b>	<b>Permit #</b>	<b>State</b>	<b>Regulator Authority</b>	<b>MSHA #</b>	<b>Date Issued</b>
Maple Creek Mining Inc. 981 Route 917 Bentleyville, Pa 15314	63841302	PA	PA DEP	36-00970	1970
	63733706	PA	PA DEP	1211-PA20-0058-03	1970
	63723707	PA	PA DEP	1211-PA20-0058-04	1970

Company	Energy Resources, Inc.		EIN: 25-1755305		
Address:	Permit #	State	Regulator Authority	MSHA #	Date Issued
Energy Resources Inc. P.O. Box 259 Brockway, PA 15824	33840125	PA	DEP	36-02695	5-25-88
	33860102	PA	DEP	36-02695	5-25-88
	17880102	PA	DEP	36-02695	5-25-88
	33870113	PA	DEP	36-02695	5-25-88
	33830115	PA	DEP	36-02695	5-25-88
	24880101	PA	DEP	36-02695	5-25-88
	24880103	PA	DEP	36-02695	5-25-88
	24890108	PA	DEP	36-02695	5-25-88
	24900102	PA	DEP	36-02695	5-25-88
	24900104	PA	DEP	36-02695	5-25-88
	24900103	PA	DEP	36-02695	5-25-88
	24890101	PA	DEP	36-02695	5-25-88
	24890102	PA	DEP	36-02695	5-25-88
	24960101	PA	DEP	36-02695	5-25-88
Company	Canterbury Coal Company		EIN: 25-112473		
Address:	Permit #	State	Regulator Authority	MSHA #	Date Issued
Canterbury Coal Company R.D. No. 1, Box 119 Avonmore, PA 15618	SMP # 039000112	PA	DEP	3600813	N/A
	SMP # 03940111	PA	DEP	3605708	N/A
	CMAF 03841302	PA	DEP	N/A	N/A
	CRDA 03743701	PA	DEP	N/A	N/A
	CRDA 03950701	PA	DEP	N/A	N/A

<b>Company</b>	<b>The Ohio Valley Coal Company</b>		<b>EIN: 34-1041310</b>		
<b>Address:</b>	<b>Permit #</b>	<b>State</b>	<b>Regulator Authority</b>	<b>MSHA #</b>	<b>Date Issued</b>
The Ohio Valley Coal Company 56854 Pleasant Ridge Road Alledonia, OH 43902	D-3060	OH	ODNR	33-01159	25-May-88
<b>Company</b>	<b>UMCO Energy, Inc.</b>		<b>EIN: 52-1615668</b>		
<b>Address:</b>	<b>Permit #</b>	<b>State</b>	<b>Regulator Authority</b>	<b>MSHA #</b>	<b>Date Issued</b>
UMCO Energy, Inc. 29525 Chagrin Boulevard, Suite 111 Pepper Pike, OH 44122	63-921301	PA	DEP	N/A	N/A
<b>Company</b>	<b>The American Coal Company</b>		<b>EIN: 73-1543124</b>		
<b>Address:</b>	<b>Permit #</b>	<b>State</b>	<b>Regulator Authority</b>	<b>MSHA #</b>	<b>Date Issued</b>
The American Coal Company P.O. Box 727 Harrisburg, IL 62946	No. 2	IL	IDNR	11-02752	N/A
	No. 255	IL	IDNR	N/A	N/A
	No. 257	IL	IDNR	N/A	N/A
	No. 306	IL	IDNR	N/A	N/A
	No. 165804AAA	IL	IDNR	N/A	N/A
	No. 110061727	IL	IDNR	N/A	N/A
<b>Company</b>	<b>PennAmerican Coal, L.P.</b>		<b>EIN: 25-1800809</b>		
<b>Address:</b>	<b>Permit #</b>	<b>State</b>	<b>Regulator Authority</b>	<b>MSHA #</b>	<b>Date Issued</b>
PennAmerican Coal, L.P. R.D. No. 1, Box 119A Avonmore, PA 15618	32951301	PA.	MCM	36-00970	

<b>Company</b>	<b>American Energy, Corporation</b>		<b>EIN: 31-1550443</b>		
<b>Address:</b>	<b>Permit #</b>	<b>State</b>	<b>Regulator Authority</b>	<b>MSHA #</b>	<b>Date Issued</b>
American Energy Corp. 43521 Mayhugh Hill Road Township Highway 88 Beallsville, Ohio 43716	D-0425	Ohio	ODNR	33-01070	
	D-1159	Ohio	ODNR		

<b>Company</b>	<b>TDK Coal Sales, Inc.</b>		<b>EIN: 25-1422374</b>		
<b>Address:</b>	<b>Permit #</b>	<b>State</b>	<b>Regulator Authority</b>	<b>MSHA #</b>	<b>Date Issued</b>
TDK Coal Sales, Inc. P.O. Box 259 R.D. #2, Fermantown Road Brockway, PA. 15824	16910104	PA	PaDep	3608867	
	33960109	PA	PaDep		
	24970104	PA	PaDep		

APPENDIX 1, PART 3  
VIOLATION INFORMATION

---

# **VIOLATION INFORMATION**

Information updated to February, 2008

Name of Operation		Identifying number for operation			Federal or State Permit Number	MSHA ID Number		
Tower					007/019	42-01750 42-01474 42-02028 42-01864		
Date Issued	Violation Number	Name of Issuing Agency	Person Issued To	Permit Number	Brief Description of Violation	Status (Abated, Term. etc.)	Abatement Action	Appeal Y or N
9/27/2006	10000	DOGM			Failure to renew	9/29/2006	terminated	N
10/6/2006	10002	DOGM			Failure to submit fan plan	12/4/2006	terminated	N
2/7/2007	10003	DOGM			Non coal Waste	2/12/2007	terminated	N
7/6/2007	10007	DOGM			Vehicle in ditch	7/06/07	terminated	N
8/27/2007	10008	DOGM			vehicle in ditch	8/28/2007	terminated	N
8/27/2007	10009	DOGM			no sed pond inspection	8/27/07	terminated	N

<b>Name of Operation</b>	<b>Identifying number for operation</b>	<b>Federal or State Permit Number</b>	<b>MSHA ID Number</b>
Crandall		015/032	42-01715

Date Issued	Violation Number	Name of Issuing Agency	Person Issued To	Permit Number	Brief Description of Violation	Status (Abated, Term. etc.)	Abatement Action	Appeal Y or N
8/19/2004	Nov4-49-4-1	DOGM			Parking in Forest	Term	moved vehicle	N
9/13/2004	Nov4-49-5-1	DOGM			non-coal waste	Term	moved waste	N
9/8/2005	Nov5-49-2-1	DOGM			Failure annual subsidence	Term		N
10/4/2006	#10001	DOGM			Culvert Plugged	Term	Unplugged	N
9/6/2007	10014	DOGM			no sed pond inspection	TERM	Inspected	N
9/10/2007	10015	DOGM			plugged culvert	term	unplugged	N
1/14/2008	10016	DOGM			mine water stored in pond	Term	rerouted water	N
1/14/2008	10017	DOGM			gravity flow from portals	Term	stopped flow	N
2/06/2008	10019	DOGM			failure to request permit renewal			





Name of Operation			Identifying number for operation				Federal or State Permit Number	MSHA ID Number
UMCO			74645				PA 63921301	3608375
Date Issued	Violation Number	Name of Issuing Agency	Person Issued To	Permit Number	Brief Description of Violation	Status (Abated, Term, etc.)	Abatement Action	Appeal Y or N
9/1/2004	426787	DMRM		63921301	86.13	No resolution	No resolution	N
9/3/2004	426786	DMRM		63921301	89.142a(b)	No resolution		N
9/20/2004	427936	DMRM		63921301	89.142a(b)	No resolution		N
1/4/2005	445603	Air Quality		63921301	25.127.25	ADM. Close Out	ADM. Close Out	N
1/13/2005	445603	Air Quality		63921301	25.127.25	ADM. Close Out	ADM. Close Out	N
3/18/2005	445603	Air Quality		63921301	25.127.25	ADM. Close Out	ADM. Close Out	N
6/10/2005	466153	DEP		63921301	25.89.21	No resolution		N
7/15/2005	448412	DEP		63921301	25.89.68	Abated		N
7/15/2005	448413	DEP		63921301	25.89.83(a)	Abated		N
10/10/2006	499479	PADEP		63921301	89.142a(f)	No resolution		Y

Name of Operation		Identifying number for operation				Federal or State Permit Number	MSHA ID Number		
Date Issued	Violation Number	Name of Issuing Agency	Person Issued To	Permit Number	Brief Description of Violation			Status (Abated, Term. etc.)	Abatement Action
Maple Creek		4244				63723707	36-00970		
5/7/2004	394440	MCM		63841302	89.142A.F.1	Abated		N	
5/12/2004	394880	MCM		63841302	89.142A.F.1	No resolution		N	
5/13/2004	395344	MCM		63841302	89.142A.F.1	No resolution		N	
5/13/2004	395345	MCM		63841302	89.142A.F.1V	No resolution		N	
5/13/2004	395346	MCM		63841302	89.142A.E	Abated		N	
5/7/2004	394440	MCM		63841302	89.142A.F.1	Abated		N	
7/7/2004	401714	MCM		63841302	89.142A.F.1	No resolution		N	
7/30/2004	421806	MCM		63841302	SMCRA.18.6	Abated		N	
8/26/2004	425804	MCM		63841302	89.142A.F.1	No resolution		N	
8/13/2004	426148	MCM		63723707	86.13	Abated		N	
9/8/2004	427302	MCM		63723707	90.102	Abated		N	
9/10/2004	427564	MCM		63723707	90.102	Abated		N	
9/13/2004	427565	MCM		63723707	90.102	Abated		N	
9/14/2004	427566	MCM		63723707	90.102	Abated		N	
9/14/2004	427567	MCM		63723707	90.112	Abated		N	
10/19/2004	432068	MCM		63723707	90.102	Abated		N	
7/29/2005	469866	DEP		63723707	89.142a(b)(1)(iii)	No Resolution		N	
12/1/2005	478486	PADEP		63841302	89.145a(b)	No Resolution		N	
12/1/2005	478487	PADEP		63841302	89.145a(f)(1)(v)	No Resolution		N	
12/1/2005	478488	PADEP		63841302	89.145a(b)	No Resolution		N	
1/9/2006	480660	PADEP		63841302	1396.18(f)	Abated		N	
6/12/2006	491619	PADEP		6381302	89.142a(e)	No Resolution		Y	



Name of Operation		Identifying number for operation		Federal or State Permit Number	MSHA ID Number			
Ohio American Coal, Inc.		N/A		N/A	3304550/3304569			
Kim Becher								
Date Issued	Violation Number	Name of Issuing Agency	Person Issued To	Permit Number	Brief Description of Violation	Status (Abated, Term. etc.)	Abatement Action	Appeal Y or N
8/9/2006	21861	ODNR	OAEI	D-2180	outside of permit budry	Abated	IBR	N
3/1/2007	13101	ODNR	OAEI	D-2291	mining without a permit	Abated	Permit issued	N

Name of Operation		Identifying number for operation		Federal or State Permit Number		MSHA ID Number		
Energy Resources, Inc.		470		License # 1465		360 269 5		
Charlie Shestak								
Date Issued	Violation Number	Name of Issuing Agency	Person Issued To	Permit Number	Brief Description of Violation	Status (Abated, Term. etc.)	Abatement Action	Appeal Y or N
5/11/2004	143258	PaDEP	ERI	24010101	87.147	Abated	Corrected	N
8/26/2004	167665	PaDEP	ERI	24010101	87.140	Abated	Corrected	N
8/30/2004	168590	PaDEP	ERI	24970102	87.147	Abated	Corrected	N
7/6/2004	147120	PaDEP	ERI	33901602	89.52	Abated	Corrected	N
7/31/2006	211989	PaDEP	ERI	17841607	86.152	Abated	Corrected	N
4/11/2006	486936	PaDEP	ERI	17930120	87.157	Abated	Corrected	N



Name of Operation		Identifying number for operation			Federal or State Permit Number	MSHA ID Number		
Belmont Coal Company					D-0241/D-1020	33-04397/33-03048		
Date Issued	Violation Number	Name of Issuing Agency	Person Issued To	Permit Number	Brief Description of Violation	Status (Abated, Term. etc.)	Abatement Action	Appeal
2/24/2004	24541	DMR	Mine	D-0241	Gullies exist in regraded	Terminated	regraded	Y or N
								N

David Bartsch

Name of Operation		Identifying number for operation			Federal or State Permit Number	MSHA ID Number		
The Ohio Valley Coal Co.		Powhatan No. 6 Mine			State - D-0360	33-01159		
Date Issued	Violation Number	Name of Issuing Agency	Person Issued To	Permit Number	Brief Description of Violation	Status (Abated, Term. etc.)	Abatement Action	Appeal Y or N
8/2/2004	19662	DMRM	Mine D-0360	D-0360	Failure to maintain sediment control	Terminated	Cleaned Ditch	N
5/23/2006	19656	DMRM	Mine D-0360	D-0360	Failure to maintain the perimeter of diversion ditch	Terminated	Cleaned Ditch	N
11/30/2006	28473	DMRM	Mine D-0360	D-0360	Undirected Drainage	Terminated	Cleaned Ditch	N
11/30/2006	28484	DMRM	Mine D-0360	D-0360	Coal Blocking Diversion Ditch	Terminated	Cleaned Ditch	N

David Bartsch

Name of Operation			Identifying number for operation					Federal or State Permit Number	MSHA ID Number
Date Issued	Violation Number	Name of Issuing Agency	Person Issued To	Permit Number	Brief Description of Violation	Status (Abated, Term. etc.)	Abatement Action	Appeal Y or N	
American Energy Corp									
1/25/2005	21807	ODNR		D-0425	subsidized residnet ran out of water	Terminated	filled tank with water	N	
4/27/2005	19696	ODNR		D-0425	Coal located outside stockpile area	Terminated	cleaned coal	N	
4/29/2005	19695	ODNR		D-0425	Maintenance on pond 018	Terminated	cleaned out pond	N	
4/27/2005	19697	ODNR		D-0425	drainage from property not entering sumps	Terminated	construct sumps	N	
10/3/2005	21871	ODNR		D-0425	Failure to sub specific repairs ( landowner)	Active		N	
6/15/2006	21860	ODNR		D-1159	Segregate Prim Fairmland soils	Active	Waiting on ODNR, All information submitted	N	
Aug-05	CO-1726	ODNR		D-0425	Uncontrolled discharge ( Slurry )	Avtive	Will submit revised Plan Mid Month	N	

Name of Operation		Identifying number for operation				Federal or State Permit Number	MSHA ID Number	
Date Issued	Violation Number	Name of Issuing Agency	Person Issued To	Permit Number	Brief Description of Violation			Status (Abated, Term. etc.)
					Galatia Mine & Millennium Portal			
						IDNR Mining Permit #2 and #352		
9/27/2004	37-1-04	IDNR	DeNeal	Permit #2	Failure to submit groundwater report on schedule	Terminated		N
4/13/2005	37-01-05	IDNR	DeNeal	Permit #2	Failure to submit U/G mining maps	Terminated		N
5/12/2005	37-02-05	IDNR	DeNeal	Shadow Area 9	Failure to complete subsidence mitigation in contemporaneous manner.	Modified		N
6/1/2005	37-03-05	IDNR	DeNeal	352	broken waterline-failure to prevent minepumpage from passing through sediment pond before going offsite	Terminated		N

---

The following companies either did not have any violations in the last three years or do not have permits.

Oklahoma Coal Company

KenAmerican Resources, Inc.

Onieda Coal, Inc.

MonValley Transportation Center, Inc.

Mill Creek Mining Co.

Pinski Corp

American Compliance Coal Inc.

Coal Resources Inc.

PA Transloading, Inc.

West Virginia Resources Inc.

WildCat Loadout

American Coal Sales Co.

Hocking Valley Resources Co..

APPENDIX J

AIR QUALITY APPROVAL ORDER

November 18, 2003

Attn: Mr. Jon Black  
Approval Order - 10/25/96  
DAQE - 997-96

Mr. Richard Sprott,  
Director  
Utah Division of Air Quality  
150 North 1950 West  
Salt Lake City, Utah 84116

Re: Request to Modify  
Operating Parameters & AO  
Centennial Minesite  
Approval Oder DAQE-997-96  
Carbon County, Utah

Dear Mr. Sprott:

Andalex Resources, Inc. is herein requesting a minor change in the Approval Order DAQE-997-96 for the Centennial Minesite in Carbon County. The modification is the result of the following projected changes in the operating parameters of the site:

- 1) The Apex Mine is closed and sealed; therefore the stockpile area for the site is reduced from 8 acres to 5 acres;
- 2) The crusher at the Pinnacle Mine will be moved to the Aberdeen Mine and is expected to crush a maximum of 300,000 tons per year;
- 3) Only coal going to the crusher (300,000 tons per year) will be screened;
- 4) Diesel usage is projected to increase from 15,000 gallons per year to a maximum of 30,000 gallons per year.

The proposed changes will result in an overall decrease in TSP and PM10 emissions, and a slight increase in combustion emissions from the diesel usage. New calculation sheets as well as a summary sheet showing the proposed new emissions are enclosed.

It is our hope this proposal will meet with your approval. Should you have any questions, or if you require additional information, please contact me.

Sincerely,

Michael W. Glasson  
Senior Geologist

**EMISSION RATE CALCULATIONS FOR:**

Source: **Composite Sheet  
Projected Emissions**  
Company: **Andalex Resources, Inc.  
Centennial Mine**

Pollutants	Uncontrolled		Controlled		
	lbs/hr	tons/yr	lbs/hr	tons/yr	g/sec
Particulate	29.14	304.91	4.36	39.98	N/A
PM-10	11.20	82.52	1.81	10.05	N/A
SOx	0.00	0.47	0.00	0.47	N/A
NOx	0.00	5.52	0.00	5.52	N/A
CO	0.00	2.30	0.00	2.30	N/A
VOC	0.00	0.51	0.00	0.51	N/A

**Entire Facility**

**Controlled Emissions (tons/yr)**

Source	Particulate	PM-10	SO <sub>x</sub>	NO <sub>x</sub>	CO	VOC
Paved Road Dust - Haul Trucks	18.59	3.63				
Crushers	0.19	0.09				
Screeners	0.26	0.13				
Drop Points	3.54	1.68				
Wind Erosion - Storage Piles	10.95	4.16				
Diesel Equipment	0.45	0.36	0.47	5.52	2.30	0.51
<b>Totals</b>	<b>33.98</b>	<b>10.05</b>	<b>0.47</b>	<b>5.52</b>	<b>2.30</b>	<b>0.51</b>

**EMISSION RATE CALCULATIONS FOR:**

Source: **Paved Road Dust - Haul Trucks**  
**Projected Emissions**  
 Company: Andalex Resources, Inc.  
 Centennial Mine

Pollutants	Uncontrolled		Controlled		
	lbs/hr	tons/yr	lbs/hr	tons/yr	g/sec
TSP	0.00	185.86	0.00	18.59	0.00
PM-10	0.00	36.26	0.00	3.63	0.00

**Input Variables:**

Hours of Operation, OP: 4,160 hr/yr  
 Production Rate, PR: (per AO Condition #8A) 3,000,000 ton/yr  
 0 ton/yr  
 Weight of Empty Vehicle: 20.5 Ton  
 Weight of Material (in one load): 44.5 ton/load  
 Paved Length of Round Trip: (per AO Condition #10) 6,600 ft 1.25 Miles  
 Road Surface Silt Loading, sL: (per DAQ Instruction) 2 g/m<sup>2</sup>  
 Pollution Control Efficiency, C: 90 %

**Calculations:**

AP-42 Fifth Edition  
 Section 13.2.1 Paved Roads

- Emission Factors (from AP-42 page 13.2.1-1 (1/96))

$$EF = k \left(\frac{sL}{2}\right)^{0.65} \left(\frac{W}{3}\right)^{15}$$

TSP 4.41 lbs/vmt  
 PM-10 0.86 lbs/vmt

Where:

k = Particle size multiplier (from AP-42 page 13.2.1-3 (1-95)1

W = mean vehicle weight (empty weight + loaded weight)/2)

TSP 0.082  
 PM-10 0.016  
 42.75

**EMISSION RATE CALCULATIONS FOR:**

Source: **Crushers**  
**Projected Emissions**  
 Company: Andalex Resources, Inc.  
 Centennial Mine

Pollutants	Uncontrolled		Controlled		
	lbs/hr	tons/yr	lbs/hr	tons/yr	g/sec
TSP	0.13	0.76	0.03	0.19	0.004
PM-10	0.06	0.36	0.01	0.09	0.002

**Input Variables:**

Hours of Operation, OP: 4,160 hr/yr  
 Production Rate, PR: (per AO Condition #8A) 3,000,000 ton/yr  
 design capacity 250 ton/yr  
 Crusher Throughput, TT: (change in AO Condition #6) 10 %

**Calculations:**

AP-42 Fifth Edition  
 Section 11.19.2 Crushed Stone Processing

1. Emission Factor, EF:  
 (From AP-42 Table 11.19.2-2 (1/95) Tertiary Crushing)

	Uncontrolled	Controlled
TSP	0.0050	0.00124 lb/ton
PM-10	0.0024	0.00059 lb/ton

**EMISSION RATE CALCULATIONS FOR:**

Source: **Screener**  
 Projected Emissions  
 Company: Andalex Resources, Inc.  
 Centennial Mine

Pollutants	Uncontrolled		Controlled		
	lbs/hr	tons/yr	lbs/hr	tons/yr	g/sec
TSP	2.31	4.80	0.13	0.26	N/A
PM-10	1.08	2.25	0.06	0.13	N/A

**Input Variables:**

Hours of Operation, OP: 4,160 hr/yr  
 Production Rate, PR: 3,000,000 ton/yr  
 721 ton/hr  
 \*Screen Throughput: (Assume only 0.3 MM crushed coal is screened)  
 (change in AO Condition #6) 10 %

**Calculations:**

AP-42 Fifth Edition - Volume 1, 1-95  
 Section 11: Mineral Products Industry  
 Part 11.19: Construction Aggregate Processing  
 11.19.2 Crushed Stone Processing

1. Emission Factor, EF:  
 (from AP-42 Table 11.19.2-2 Screening (1/95))

	Uncontrolled	Controlled
TSP	0.032	0.001764 lb/ton
PM-10	0.015	0.00084 lb/ton

\* Add to Condition 6

**EMISSION RATE CALCULATIONS FOR:**

Source: **Drop Points  
Projected Emissions**  
Company: Andalex Resources, Inc.  
Centennial Mine

**Emissions:**

Pollutants	Uncontrolled		Controlled		
	lbs/hr	tons/yr	lbs/hr	tons/yr	g/sec
TSP	1.70	3.54	1.70	3.54	0.215
PM-10	0.81	1.68	0.81	1.68	0.102

**Input Variables:**

Hours of Operation, OP: 4,160 hr/yr  
 Production Rate, PR: 3,000,000 ton/yr  
 721 ton/hr  
 Number of Drops, DP: 1 drop from stacker to loadout  
 1 drop from conveyor to stockpile  
 1 drop to trucks  
 Moisture Content of Material, M: (per AO condition #16) 6 %  
 Average wind speed (from local met. data), U: 7 mph

**Calculations:**

AP-42 Fifth Edition  
 Section 13.2.4 Aggregate Handling and Storage Piles

1. Emission Factors (from AP-42 page 13.2.4-3 (1/95))

TSP	0.0008 lb/ton
PM-10	0.0004 lb/ton

Where: k = particle size multiplier (from page 13.2.4-3 (1/95))

TSP	0.74
PM-10	0.35

**EMISSION RATE CALCULATIONS FOR:**

Source: **Drop Points**  
**Projected Emissions**  
 Company: Andalex Resources, Inc.  
 Centennial Mine

**Emissions:**

Pollutants	Uncontrolled		Controlled		
	lbs/hr	tons/yr	lbs/hr	tons/yr	g/sec
TSP	25.00	109.50	2.50	10.95	N/A
PM-10	9.25	41.61	0.93	4.16	N/A

**Input Variables:**

Area of Storage Piles, A: (Change in AO Condition #17) 5 acre  
 Wind Speed, u: 7 mi/hr  
 3.1 m/sec  
 Control Efficiency, C: 90 %

**Calculations:**

*AP-42 Fifth Edition*  
*Section 11: Mineral Products Industry*  
*Part 11.9: Western Surface Coal Mining*

- \*Emission Factor (from Table 11.9-2 (1/95)), EF:  
 TSP: EF = 1.6u  
 TSP 5.0 lb/ac/hr  
 Assume 37% TSP = PM-10 1.9 lb/ac/hr

\*Note: The emission factors include the storage pile maintenance activities of the bulldozer, the loader and the backhoe.

**EMISSION RATE CALCULATIONS FOR:**

Source: **Diesel Equipment  
Projected Emissions**  
Company: **Andalex Resources, Inc.  
Centennial Mine**

**Emissions:**

Pollutants	Uncontrolled		Controlled		
	lbs/hr	tons/yr	lbs/hr	tons/yr	g/sec
TSP	0.00	0.45	0.00	0.45	N/A
PM-10	0.00	0.36	0.00	0.36	N/A
SO <sub>x</sub>	0.00	0.47	0.00	0.47	N/A
NO <sub>x</sub>	0.00	5.52	0.00	5.52	N/A
CO	0.00	2.30	0.00	2.30	N/A
VOC (non methane)	0.00	0.51	0.00	0.51	N/A
Aldehydes	0.00	0.10	0.00	0.10	N/A

**Input Variables:**

Fuel Consumption, FC: (on heavy equipment diesel consumption) 30,000 gal/yr  
(Change in AO Condition #8B)

**Calculations:**

*AP-42 Fourth Edition Sept, 1985 Volume II: Mobile Sources  
Section II: Off Highway Mobile Sources  
Part II-7: Heavy Duty Construction Equipment*

1. \*Emission Factors (from AP-42 Table II-7.1, Miscellaneous), EF:

80% TSP =	TSP	30.10 lb/k gal
	PM-10	24.08 lb/k gal
	SO <sub>x</sub>	31.10 lb/k gal
	NO <sub>x</sub>	368.01 lb/k gal
	CO	153.51 lb/k gal
	VOC (non-methane)	33.70 lb/k gal
	Aldehydes	6.78 lb/k gal

\*Note: Emission factors from miscellaneous category include the exhaust from the bulldozer, the loader, the backhoe and the standby generator.

**SUMMARY SHEET**

	TSP	PM-10	SO <sub>2</sub>	NO <sub>x</sub>	CO	VOC
*Current	39.90	11.97	0.23	2.76	1.15	0.25
Proposed	33.98	10.05	0.47	5.52	2.30	0.51
Increase	-	-	0.24	2.76	1.15	0.26
(Decrease)	(5.92)	(1.92)	-	-	-	-

Note: All Units in Tons/Year

\* Based on Approval Order DAQE-997-96, 10/25/96



# State of Utah

## DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF AIR QUALITY

Michael O. Leavitt  
Governor

Dianne R. Nielson, Ph.D.  
Executive Director

Ursula K. Trueman  
Acting Director

150 North 1950 West  
P.O. Box 144820  
Salt Lake City, Utah 84114-4820  
(801) 536-4000 Voice  
(801) 536-4099 Fax  
(801) 536-4414 T.D.D.

DAQE-997-96

October 25, 1996

Mike Glasson  
Andalex Resources Incorporated  
PO Box 902  
Price, Utah 84501

Dear Mr. Glasson:

Re: Approval Order Modification to Increase Production Rate and Haulage Limitation at the Centennial Minesite, Carbon County, CDS-A2

The attached document is an Approval Order for the above referenced project.

Future correspondence on this Approval Order should include the engineer's name as well as the DAQE number as shown on the upper right-hand corner of this letter. Please direct any technical questions you may have on this project to Jon Black. He may be reached at (801) 536-4047.

Sincerely,

Ursula K. Trueman, Acting Executive Secretary  
Utah Air Quality Board

UKT:DMK:JB:aj

cc: Southeastern Utah District Health Department  
6 East Main  
POB 800  
Price, UT 84501



**STATE OF UTAH**  
**Department of Environmental Quality**

**Division of Air Quality**

**APPROVAL ORDER MODIFICATION TO INCREASE  
PRODUCTION RATE AND HAULAGE LIMITATION AT THE  
CENTENNIAL MINESITE, CARBON COUNTY**

**Prepared By: DMK Environmental Engineering Inc.**  
**Reviewed By: Jon Black**  
**801-536-4047**

**APPROVAL NUMBER**

**DAQE-997-96**

**Date: October 25, 1996**

**Source**

**Andalex Resources Incorporated**

**Mike Glasson**  
**801-637-5385**

**Ursula K. Trueman**  
**Acting Executive Secretary**  
**Utah Air Quality Board**

### Abstract

*This Approval Order (AO) is for a coal mine known as Centennial Mine located in Price, Utah. It replaces the AO dated September 7, 1994 (DAQE-748-94) to increase the allowable production rate to three million tons per year. No changes to the existing, approved installations are required to accomplish this production increase.*

*The Centennial Mine is located in Carbon County which is an attainment area for all pollutants. Emission increases include:  $PM_{10}$  (2.68 tpy),  $SO_2$  (0.04 tpy),  $NO_x$  (0.55 tpy),  $CO$  (0.23 tpy), and  $VOC$  (0.05 tpy). These emission increases are too low to require dispersion modeling.*

*The crusher at the Pinnacle Mine has not been operated since 1983 and shall not process any material at any time. The Centennial Mine is a synthetic minor source and not subject to NSPS, NESHAPS or Title IV. Therefore, the Centennial Mine is not subject to the Operating Permit Requirements as they stand.*

*A 30-day public comment period was required for this source.*

The above-referenced project has been evaluated and found to be consistent with the requirements of the Utah Administrative Code Rules 307 (UAC R307) and the Utah Air Conservation Act. A 30-day public comment period was held and all comments received were evaluated. The conditions of this AO reflect any changes to the proposed conditions which resulted from the evaluation of the comments received. This air quality AO authorizes the project with the following conditions and failure to comply with any of the conditions may constitute a violation of this order:

#### General Conditions:

1. This AO applies to the following company:

Andalex Resources, Inc.  
PO Box 902  
Price, Utah 84501  
Phone: (801) 637-5385  
Fax: (801) 637-8860

The equipment listed below in this AO shall be operated at the following location:

Centennial Mine  
Approximately 8 miles north-northeast of Price, Utah

Universal Transverse Mercator (UTM) Coordinate System:

4,392 kilometers Northing; 523 kilometers Easting; Zone 12

2. Definitions of terms, abbreviations, and references used in this AO conform to those used in the Utah Administrative Code Rule 307 (UAC R307), and Series 40 of the Code of Federal Regulations (40 CFR). These definitions take precedence unless specifically defined otherwise herein.

3. Andalex Resources, Inc. shall operate the Centennial Mine according to the terms and conditions of this AO as requested in the NOI dated April 22, 1996.
4. A copy of this AO shall be available on site. The AO shall be available to the employees who operate the air emission producing equipment. These employees shall receive instruction as to their responsibilities in operating the equipment according to all of the relevant conditions listed below.
5. This AO shall replace the AO dated September 7, 1994 (DAQE-748-94).
6. The approved installations shall consist of the following equipment or equivalent\*:
  - A. Aberdeen Mine with truck loadout and stockpile
  - B. Pinnacle Mine with crusher (250 tons per hour rated capacity), truck loadout, and stockpile
  - C. Apex Mine with truck loadout and stockpile
  - D. Associated conveyors/stackers
  - E. Associated mobile equipment

\* Equivalency shall be determined by the Executive Secretary.

There is a crusher with a 250 tons per hour rated capacity situated at the Pinnacle Mine; however, this crusher has not been operated since 1983 and shall not process any material at any time.

#### **Limitations and Tests Procedures**

7. Visible emissions from the following emission points shall not exceed the following values:
  - A. All conveyor transfer points - 10% opacity
  - B. Reclaim conveyor drop point - 20% opacity
  - C. All other points - 20% opacity

Opacity observations of emissions from stationary sources shall be conducted in accordance with 40 CFR 60, Appendix A, Method 9.

Visible fugitive dust emissions from haul-road traffic and mobile equipment in operational areas shall not exceed 20% opacity. Visible emissions determinations for traffic sources shall use procedures similar to Method 9. The normal requirement for observations to be made at 15-second intervals over a six-minute period, however, shall not apply. Six points, distributed along the length of the haul road or in the operational area, shall be chosen by the Executive Secretary or a representative. An opacity reading shall be made at each point when a vehicle passes the selected points. Opacity readings shall be made  $\frac{1}{2}$  vehicle length or greater behind the vehicle and at approximately  $\frac{1}{2}$  the height of the vehicle or greater. The accumulated six readings shall be averaged for the compliance value.

8. The following production limits shall not be exceeded without prior approval in accordance with R307-1-3.1, UAC:

- A. 3,000,000 tons of coal per rolling 12-month period (including all three mines)
- B. 15,000 gallons of diesel fuel consumption for on-site diesel equipment per rolling 12-month period

Compliance with the annual limitations shall be determined on a rolling 12-month total. The owner/operator shall calculate a new 12-month total based on the first day of each month using data from the previous 12 months. Records of production shall be kept for all periods when the plant is in operation. Records of production/fuel consumption, including rolling 12-month totals shall be made available to the Executive Secretary or a representative upon request and shall include a period of two years ending with the date of the request. Production shall be determined by records of coal hauled off-site. Fuel consumption shall be determined by fuel bills. The records shall be kept on a daily basis.

### Roads and Fugitive Dust

- 9. All unpaved roads and other unpaved operational areas that are used by mobile equipment shall be water sprayed and/or chemically treated to control fugitive dust. Treatment shall be of sufficient frequency and quantity to maintain the surface material in a damp/moist condition. The opacity shall not exceed 20% during all times the areas are in use or unless it is below freezing. If chemical treatment is to be used, the plan must be approved by the Executive Secretary. Records of water treatment shall be kept for all periods when the plant is in operation. The records shall include the following items:
  - A. Date
  - B. Number of treatments made, dilution ratio, and quantity
  - C. Rainfall received, if any, and approximate amount
  - D. Time of day treatments were made

Records of treatment shall be made available to the Executive Secretary upon request and shall include a period of two years ending with the date of the request.

- 10. The paved haul road limitation shall be:

1.25 miles in length round trip

This limitation shall not be exceeded without prior approval in accordance with R307-1-3.1, UAC. The haul road speed shall be posted.

- 11. Control of disturbed or stripped areas is required at all times (24 hours per day every day) for the duration of the project/operation until the area is reclaimed.
- 12. The Centennial Mine haul road shall be paved and shall be periodically swept or sprayed clean as dry conditions warrant or as determined necessary by the Executive Secretary. Records of cleaning paved roads shall be made available to the Executive Secretary or a representative upon request. Records shall include a period of two years before the date of request.
- 13. All conveyors shall be covered.

14. The radial stackers shall stack at the highest point of the stockpile to minimize drop distances.
15. Water sprays or chemical dust suppression sprays shall be installed at the following points to control fugitive emissions:

All conveyor transfer points

The sprays shall operate whenever dry conditions warrant or as determined necessary by the Executive Secretary.

16. The moisture content of the coal shall be maintained at a minimum of 6.0% by weight. The moisture content shall be tested if directed by the Executive Secretary using the appropriate American Society of Testing and Methods (ASTM) method.
17. The storage piles shall be watered to minimize generation of fugitive dusts as dry conditions warrant or as determined necessary by the Executive Secretary. The total combined area of all storage piles shall not exceed 8 acres. The area shall be measured if directed by the Executive Secretary.

**Fuels**

18. The owner/operator shall use only #1 or #2 diesel as fuel. If any other fuel is to be used, an AO shall be required in accordance with R307-1-3.1, UAC.
19. The sulfur content of the #1 or #2 diesel fuel burned shall not exceed 0.5 percent by weight. Sulfur content shall be decided by ASTM Method D-4294-89, or approved equivalent. The sulfur content shall be tested if directed by the Executive Secretary.

**Records & Miscellaneous**

20. All installations and facilities authorized by this AO shall be adequately and properly maintained. Maintenance records shall be maintained while the plant is in operation. All pollution control vendor recommended equipment shall be installed, maintained, and operated. Instructions from the vendor or established maintenance practices that maximize pollution control shall be used. All necessary equipment control and operating devices, such as pressure gauges, amp meters, volt meters, flow rate indicators, temperature gauges, etc., shall be installed and operated properly and easily accessible to compliance inspectors. A copy of all manufacturers' operating instructions for pollution control equipment and pollution emitting equipment shall be kept on site. These instructions shall be available to all employees who operate the equipment and shall be made available to compliance inspectors upon their request.
21. The owner/operator shall comply with R307-1-4.7, UAC. This rule addresses unavoidable breakdown reporting requirements. Any breakdown lasting longer than two hours shall be reported to the Executive Secretary within three hours of the breakdown if reasonable, but in no case longer than 18 hours after the beginning of the breakdown. During times other than normal office hours, breakdowns for any period longer than two hours shall be initially reported to the Environmental Health Emergency Response Coordinator. Within seven calendar days of the beginning of any breakdown lasting longer than two hours, a written

report shall be submitted to the Executive Secretary. The owner/operator shall calculate/estimate the excess emissions (amount above AO limits) whenever a breakdown occurs. The total of excess emissions per calendar year shall be reported to the Executive Secretary with the inventory submittal, as directed by the Executive Secretary. (See Appendix A)

22. All records referenced in this AO or in applicable NSPS, which are required to be kept by the owner/operator, shall be made available to the Executive Secretary or a representative upon request and shall include a period of two years ending with the date of the request. All records shall be kept for a period of two years. Examples of records to be kept at this source shall include the following as applicable:

- |    |                           |                       |
|----|---------------------------|-----------------------|
| A. | Production rate           | (Condition number 8)  |
| B. | Fuel consumption          | (Condition number 8)  |
| C. | Fugitive emission control | (Condition number 9)  |
| D. | Unavoidable breakdowns    | (Condition number 21) |

Any future modifications to the equipment approved by this order must also be approved in accordance with R307-1-3.1.1, UAC.

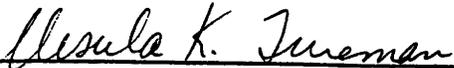
This AO in no way releases the owner or operator from any liability for compliance with all other applicable federal, state, and local regulations including the UAC R307.

Annual emissions for the Centennial Mine are currently calculated at the following values:

	<u>Pollutant</u>	<u>Tons/yr</u>
A.	TSP .....	39.90
B.	PM <sub>10</sub> .....	11.97
C.	SO <sub>2</sub> .....	0.23
D.	NO <sub>x</sub> .....	2.76
E.	CO .....	1.15
F.	VOC .....	0.25

These calculations are for the purposes of determining the applicability of Prevention of Significant Deterioration, nonattainment area, and Title V source requirements of the UAC R307. They are not to be used for purposes of determining compliance.

Sincerely,

  
\_\_\_\_\_  
Ursula K. Trueman, Acting Executive Secretary  
Utah Air Quality Board

## Appendix A

### Andalex Resources - Centennial Mine Unavoidable Breakdown UAC R307-4.7

#### R307-1-4.7 Unavoidable Breakdown.

This applies to all regulated pollutants including those for which there are National Ambient Air Quality Standards. Except as otherwise provided in R307-1-4.7, emissions resulting from an unavoidable breakdown will not be deemed a violation of these regulations. If excess emissions are predictable, they must be authorized under the variance procedure in R307-1-2.3. Breakdowns that are caused entirely or in part by poor maintenance, careless operation, or any other preventable upset condition or preventable equipment breakdown shall not be considered unavoidable breakdown.

4.7.1 Reporting. A breakdown for any period longer than 2 hours must be reported to the Executive Secretary within 3 hours of the beginning of the breakdown if reasonable, but in no case longer than 18 hours after the beginning of the breakdown. During times other than normal office hours, breakdowns for any period longer than 2 hours shall be initially reported to the Environmental Health Emergency Response Coordinator, Telephone (801) 536-4123. Within 7 calendar days of the beginning of any breakdown of longer than 2 hours, a written report shall be submitted to the Executive Secretary which shall include the cause and nature of the event, estimated quantity of pollutant (total and excess), time of emissions and steps taken to control the emissions and to prevent recurrence. The submittal of such information shall be used by the Executive Secretary in determining whether a violation has occurred and/or the need of further enforcement action.

4.7.2 Penalties. Failure to comply with the reporting procedures of R307-1-4.7.1. will constitute a violation of these regulations.

4.7.3 The owner or operator of an installation suffering an unavoidable breakdown shall assure that emission limitations and visible emission limitations are exceeded for only as short a period of time as reasonable. The owner or operator shall take all reasonable measures which may include but are not limited to the immediate curtailment of production, operations, or activities at all installations of the source if necessary to limit the total aggregate emissions from the source to no greater than the aggregate allowable emissions averaged over the periods provided in the source's approval orders or the UACR. In the event that production, operations or activities cannot be curtailed so as to so limit the total aggregate emissions without jeopardizing equipment or safety or measures taken would result in even greater excess emissions, the owner or operator of the source shall use the most rapid, reasonable procedure to reduce emissions. The owner or operator of any installation subject to a SIP emission limitation pursuant to these rules shall be deemed to have complied with the provisions of R307-1-4.7 if the emission limitation has not been exceeded.

4.7.4 Failure to comply with curtailment actions required by R307-1-4.7.3 will constitute a violation of these rules.