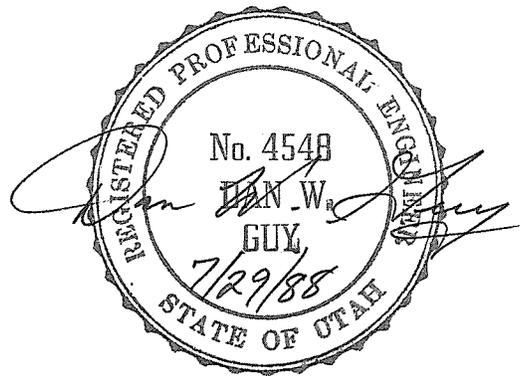


APPENDIX H

SEDIMENT POND CERTIFICATIONS AND R-69 FORMS

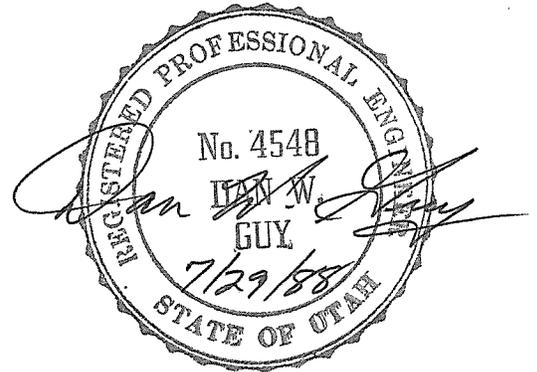
Certification of Sediment Pond "A"
Wildcat Loadout

I, Dan W. Guy, a registered professional engineer, State of Utah No. 4548, do hereby certify that the Sediment Control Pond "A" at the Wildcat Loadout has been constructed in accordance with the plan and design criteria set forth in the Permit Application Package and meets the required performance standards outlined in UMC 817.46.



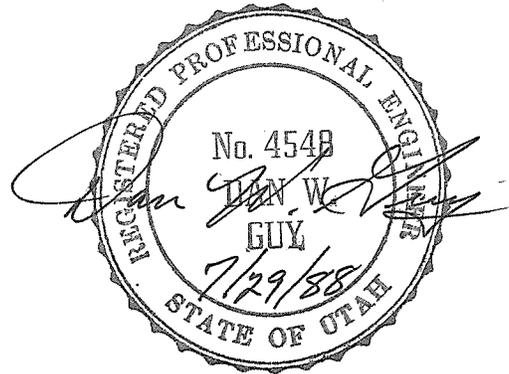
Certification of Sediment Pond "B"
Wildcat Loadout

I, Dan W. Guy, a registered professional engineer, State of Utah No. 4548, do hereby certify that the Sediment Control Pond "B" at the Wildcat Loadout has been constructed in accordance with the plan and design criteria set forth in the Permit Application Package and meets the required performance standards outlined in UMC 817.46.



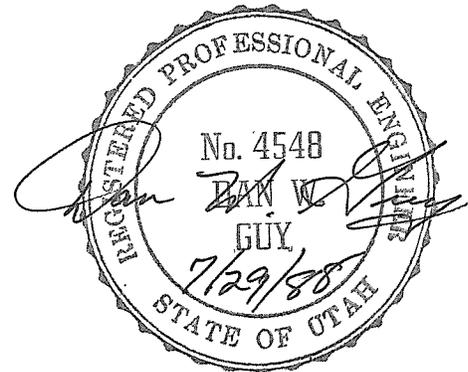
Certification of Sediment Pond "C"
Wildcat Loadout

I, Dan W. Guy, a registered professional engineer, State of Utah No. 4548, do hereby certify that the Sediment Control Pond "C" at the Wildcat Loadout has been constructed in accordance with the plan and design criteria set forth in the Permit Application Package and meets the required performance standards outlined in UMC 817.46.



Certification of Sediment Pond "D"
Wildcat Loadout

I, Dan W. Guy, a registered professional engineer, State of Utah No. 4548, do hereby certify that the Sediment Control Pond "D" at the Wildcat Loadout has been constructed in accordance with the plan and design criteria set forth in the Permit Application Package and meets the required performance standards outlined in UMC 817.46.



APPLICATION TO CONSTRUCT
A DAM IMPOUNDING LESS
THAN 20 ACRE-FEET

STATE OF UTAH

Application No. _____
Received _____
Entered _____

The following application is submitted, pursuant to Section 73-5-12 of the Utah Code Annotated 1953, to obtain the authority to build a dam which will create a reservoir impounding less than 20 acre-feet

1. APPLICANT INFORMATION

NAME Andalex Resources, Inc. Wildcat Loadout
ADDRESS P.O. Box 902
CITY Price COUNTY OF DAM Carbon
STATE Utah ZIP 84501

2. PURPOSE OF DAM

STOCK POND _____ REGULATING RES. _____ DIVERSION DAM _____
IRRIGATION _____ DEBRIS BASIN _____ FLOOD CONTROL _____
SEDIMENTATION XXX TAILINGS POND _____ RECREATION _____
OTHER (describe) (Sediment Pond "A")

3. LOCATION OF DAM

QUARTER/QUARTER (i.e. NESW) NWSE SECTION 33
TOWNSHIP 13 S. RANGE 9 E. BASE & MERIDIAN S.L.B.&M.

4. PROPOSED DAM

DAM HEIGHT (vertical distance) 9.5 FEET
CREST LENGTH (length of top of dam) 150 FEET
CREST WIDTH (width of top of dam) 15 FEET
UPSTREAM SLOPE 1 VERTICAL ON 3 HORIZONTAL
DOWNSTREAM SLOPE 1 VERTICAL ON 2 HORIZONTAL
WATER SURFACE AREA AT SPILLWAY CREST 0.66 ACRES
RESERVOIR CAPACITY AT SPILLWAY CREST 2.410 AC.FT.
TYPE OF DAM (i.e. earthfill, concrete, etc.,) _____
Earthfill (Pond mostly incised)

5. PROPOSED OUTLET

INSIDE DIAMETER 18 INCHES LENGTH 60 FEET
TYPE OF PIPE (i.e. concrete, steel, etc.,) Steel
TYPE OF GATE OR VALVE None (Inverted inlet)
LOCATION OF GATE (upstream, downstream, center, etc.,) _____
None

6. PROPOSED SPILLWAY

CREST LENGTH (width of bottom of spillway) 4 FEET
DEPTH (from bottom of spillway to top of dam) 1 FEET
TYPE (i.e. earth channel, pipe, etc.,) Earth channel

CONTROL (i.e. gates, flashboards, etc.,) None
(Emergency Spillway Only)

7. WATER RIGHTS

DESCRIBE (See Instructions) N/A

8. COMMENTS

This is a sediment control structure only. Runoff water is only stored for settling purposes and then may be discharged per an NPDES Permit.

9. PLANS

Attach any plans sketches or diagrams which will clarify the information given on this application. (See Attached Plate 3)

The undersigned acknowledge they have read the instructions included with this application, and are aware no construction is to begin until this application has been approved by the Utah State Engineer

4-27-88
Date

Michael W. Hansen
Signature of Applicant

Water Rights in Order By _____ Date _____
Area Engineer's Hazard Rating _____
Reviewed by Dam Safety By _____ Date _____
Comments _____

Date of Approval _____

Robert L. Morgan, P.E.
State Engineer

APPLICATION TO CONSTRUCT
A DAM IMPOUNDING LESS
THAN 20 ACRE-FEET

STATE OF UTAH

Application No. _____
Received _____
Entered _____

The following application is submitted, pursuant to Section 73-5-12 of the Utah Code Annotated 1953, to obtain the authority to build a dam which will create a reservoir impounding less than 20 acre-feet

1. APPLICANT INFORMATION

NAME Andalex Resources, Inc. - Wildcat Loadout
ADDRESS P.O. Box 902
CITY Price COUNTY OF DAM Carbon
STATE Utah ZIP 84501

2. PURPOSE OF DAM

STOCK POND _____ REGULATING RES. _____ DIVERSION DAM _____
IRRIGATION _____ DEBRIS BASIN _____ FLOOD CONTROL _____
SEDIMENTATION XXX TAILINGS POND _____ RECREATION _____
OTHER (describe) (Sediment Pond "B")

3. LOCATION OF DAM

QUARTER/QUARTER (i.e. NESW) _____ NWSE _____ SECTION 33
TOWNSHIP 13 S. RANGE 9 E. BASE & MERIDIAN S.L.B.&M.

4. PROPOSED DAM

DAM HEIGHT (vertical distance) _____ 6.0 FEET
CREST LENGTH (length of top of dam) _____ 80 FEET
CREST WIDTH (width of top of dam) _____ 13 FEET
UPSTREAM SLOPE 1 VERTICAL ON _____ 5 HORIZONTAL
DOWNSTREAM SLOPE 1 VERTICAL ON _____ 2 HORIZONTAL
WATER SURFACE AREA AT SPILLWAY CREST _____ 0.13 ACRES
RESERVOIR CAPACITY AT SPILLWAY CREST _____ 0.310 AC.FT.
TYPE OF DAM (i.e. earthfill, concrete, etc.,) _____
Earthfill (Pond mostly incised)

5. PROPOSED OUTLET

INSIDE DIAMETER 12 INCHES LENGTH 40 FEET
TYPE OF PIPE (i.e. concrete, steel, etc.,) Steel
TYPE OF GATE OR VALVE None (Inverted Inlet)
LOCATION OF GATE (upstream, downstream, center, etc.,) _____
None

6. PROPOSED SPILLWAY

CREST LENGTH (width of bottom of spillway) 4.0 FEET
DEPTH (from bottom of spillway to top of dam) 1.0 FEET
TYPE (i.e. earth channel, pipe, etc.,) Earth Channel

CONTROL (i.e. gates, flashboards, etc.,) None
(Emergency Spillway Only)

7. WATER RIGHTS

DESCRIBE (See Instructions) N/A

8. COMMENTS

This is a sediment control structure only. Runoff water is
only stored for settling purposes and then may be discharged
per an NPDES Permit.

9. PLANS

Attach any plans sketches or diagrams which will clarify the information given on this application. (See Attached Plate 4)

The undersigned acknowledge they have read the instructions included with this application, and are aware no construction is to begin until this application has been approved by the Utah State Engineer

4.27.88
Date

Michael W. Hansen
Signature of Applicant

Water Rights in Order By _____ Date _____
Area Engineer's Hazard Rating _____
Reviewed by Dam Safety By _____ Date _____
Comments _____

Date of Approval _____

Robert L. Morgan, P.E.
State Engineer

1/21/86

APPLICATION TO CONSTRUCT
A DAM IMPOUNDING LESS
THAN 20 ACRE-FEET

STATE OF UTAH

Application No. _____
Received _____
Entered _____

The following application is submitted, pursuant to Section 73-5-12 of the Utah Code Annotated 1953, to obtain the authority to build a dam which will create a reservoir impounding less than 20 acre-feet

1. APPLICANT INFORMATION

NAME Andalex Resources, Inc. - Wildcat Loadout
ADDRESS P.O. Box 902
CITY Price COUNTY OF DAM Carbon
STATE Utah ZIP 84501

2. PURPOSE OF DAM

STOCK POND _____ REGULATING RES. _____ DIVERSION DAM _____
IRRIGATION _____ DEBRIS BASIN _____ FLOOD CONTROL _____
SEDIMENTATION XXX TAILINGS POND _____ RECREATION _____
OTHER (describe) (Sediment Pond "C")

3. LOCATION OF DAM

QUARTER/QUARTER (i.e. NESW) _____ NWSE _____ SECTION 33
TOWNSHIP 13 S. RANGE 9 E. BASE & MERIDIAN S.L.B.&M.

4. PROPOSED DAM

DAM HEIGHT (vertical distance) 13 FEET
CREST LENGTH (length of top of dam) 280 FEET
CREST WIDTH (width of top of dam) 26 FEET
UPSTREAM SLOPE 1 VERTICAL ON 3 HORIZONTAL
DOWNSTREAM SLOPE 1 VERTICAL ON 2 HORIZONTAL
WATER SURFACE AREA AT SPILLWAY CREST 0.86 -ACRES
RESERVOIR CAPACITY AT SPILLWAY CREST 4.430 AC.FT.
TYPE OF DAM (i.e. earthfill, concrete, etc.,) _____
Earthfill (Pond mostly incised)

5. PROPOSED OUTLET

INSIDE DIAMETER 18 INCHES LENGTH 60 FEET
TYPE OF PIPE (i.e. concrete, steel, etc.,) Steel
TYPE OF GATE OR VALVE None (Inverted Inlet)
LOCATION OF GATE (upstream, downstream, center, etc.,) _____
None

(OVER)

6. PROPOSED SPILLWAY

CREST LENGTH (width of bottom of spillway) 18" Dia. FEET
DEPTH (from bottom of spillway to top of dam) 2.0 FEET
TYPE (i.e. earth channel, pipe, etc.,) Pipe

CONTROL (i.e. gates, flashboards, etc.,) None
(Emergency Spillway Only)

7. WATER RIGHTS

DESCRIBE (See Instructions) N/A

8. COMMENTS

This is a sediment control structure only. Runoff water is
only stored for settling purposes and then may be discharged
per an NPDES Permit.

9. PLANS

Attach any plans sketches or diagrams which will clarify the information given on this application. (See Attached Plate 5)

The undersigned acknowledge they have read the instructions included with this application, and are aware no construction is to begin until this application has been approved by the Utah State Engineer

4.27.88
Date

Michael W. Jensen
Signature of Applicant

Water Rights in Order By _____ Date _____
Area Engineer's Hazard Rating _____
Reviewed by Dam Safety By _____ Date _____
Comments _____

Date of Approval _____

Robert L. Morgan, P.E.
State Engineer

APPLICATION TO CONSTRUCT
A DAM IMPOUNDING LESS
THAN 20 ACRE-FEET

STATE OF UTAH

Application No. _____
Received _____
Entered _____

The following application is submitted, pursuant to Section 73-5-12 of the Utah Code Annotated 1953, to obtain the authority to build a dam which will create a reservoir impounding less than 20 acre-feet

1. APPLICANT INFORMATION

NAME Andalex Resources, Inc. -- Wildcat Loadout
ADDRESS P.O. Box 902
CITY Price COUNTY OF DAM Carbon
STATE Utah ZIP 84501

2. PURPOSE OF DAM

STOCK POND _____ REGULATING RES. _____ DIVERSION DAM _____
IRRIGATION _____ DEBRIS BASIN _____ FLOOD CONTROL _____
SEDIMENTATION XXX TAILINGS POND _____ RECREATION _____
OTHER (describe) (Sediment Pond "D")

3. LOCATION OF DAM

QUARTER/QUARTER (i.e. NESW) NWSE SECTION 33
TOWNSHIP 13 S. RANGE 9 E. BASE & MERIDIAN S.L.B.&M.

4. PROPOSED DAM

DAM HEIGHT (vertical distance) 9.0 FEET
CREST LENGTH (length of top of dam) 100 FEET
CREST WIDTH (width of top of dam) 15 FEET
UPSTREAM SLOPE 1 VERTICAL ON 3 HORIZONTAL
DOWNSTREAM SLOPE 1 VERTICAL ON 2 HORIZONTAL
WATER SURFACE AREA AT SPILLWAY CREST 0.29 ACRES
RESERVOIR CAPACITY AT SPILLWAY CREST 0.880 AC.FT.
TYPE OF DAM (i.e. earthfill, concrete, etc.,) Earthfill (Pond Mostly Incised)

5. PROPOSED OUTLET

INSIDE DIAMETER 18 INCHES LENGTH 80 FEET
TYPE OF PIPE (i.e. concrete, steel, etc.,) Steel
TYPE OF GATE OR VALVE None (Inverted Inlet)
LOCATION OF GATE (upstream, downstream, center, etc.,) None

6. PROPOSED SPILLWAY

CREST LENGTH (width of bottom of spillway) 18" Dia. FEET
DEPTH (from bottom of spillway to top of dam) 2.8 FEET
TYPE (i.e. earth channel, pipe, etc.,) Pipe

CONTROL (i.e. gates, flashboards, etc.,) None
(Emergency Spillway Only)

7. WATER RIGHTS

DESCRIBE (See Instructions) N/A

8. COMMENTS

This is a sediment control structure only. Runoff water is
only stored for settling purposes and then may be discharged
per an NPDES Permit.

9. PLANS

Attach any plans sketches or diagrams which will clarify the information given on this application. (See Attached Plate 4)

The undersigned acknowledge they have read the instructions included with this application, and are aware no construction is to begin until this application has been approved by the Utah State Engineer

4-27-88
Date

Michael A. Garcia
Signature of Applicant

Water Rights in Order By _____ Date _____
Area Engineer's Hazard Rating _____
Reviewed by Dam Safety By _____ Date _____
Comments _____

Date of Approval _____

Robert L. Morgan, P.E.
State Engineer

APPLICATION TO CONSTRUCT
A DAM IMPOUNDING LESS
THAN 20 ACRE-FEET

STATE OF UTAH

Application No. _____
Received _____
Entered _____

The following application is submitted, pursuant to Section 73-5-12 of the Utah Code Annotated 1953, to obtain the authority to build a dam which will create a reservoir impounding less than 20 acre-feet

1. APPLICANT INFORMATION

NAME Andalex Resources, Inc. - Wildcat Loadout
ADDRESS P.O. Box 902
CITY Price COUNTY OF DAM Carbon
STATE Utah ZIP 84501

2. PURPOSE OF DAM

STOCK POND _____ REGULATING RES. _____ DIVERSION DAM _____
IRRIGATION _____ DEBRIS BASIN _____ FLOOD CONTROL _____
SEDIMENTATION XXX TAILINGS POND _____ RECREATION _____
OTHER (describe) (Sediment Pond "E")

3. LOCATION OF DAM

QUARTER/QUARTER (i.e. NESW) _____ NWSE _____ SECTION 33
TOWNSHIP 13 S. RANGE 9 E. BASE & MERIDIAN S.L.B.&M.

4. PROPOSED DAM

DAM HEIGHT (vertical distance) _____ 6 FEET
CREST LENGTH (length of top of dam) _____ 150 FEET
CREST WIDTH (width of top of dam) _____ 22 FEET
UPSTREAM SLOPE 1 VERTICAL ON 3 HORIZONTAL
DOWNSTREAM SLOPE 1 VERTICAL ON 2 HORIZONTAL
WATER SURFACE AREA AT SPILLWAY CREST _____ 0.17 ACRES
RESERVOIR CAPACITY AT SPILLWAY CREST _____ 0.849 AC.FT.
TYPE OF DAM (i.e. earthfill, concrete, etc.,) _____
Earthfill (Pond Mostly Incised)

5. PROPOSED OUTLET

INSIDE DIAMETER 18 INCHES LENGTH 45 FEET
TYPE OF PIPE (i.e. concrete, steel, etc.,) Steel
TYPE OF GATE OR VALVE None (Inverted Inlet)
LOCATION OF GATE (upstream, downstream, center, etc.,) _____
None

6. PROPOSED SPILLWAY

CREST LENGTH (width of bottom of spillway) 4 FEET
DEPTH (from bottom of spillway to top of dam) 1 FEET
TYPE (i.e. earth channel, pipe, etc.,) Earth Channel

CONTROL (i.e. gates, flashboards, etc.,) None
(Emergency Spillway Only)

7. WATER RIGHTS

DESCRIBE (See Instructions) N/A

8. COMMENTS

This is a sediment control structure only. Runoff water is
only stored for settling purposes, and then may be discharged
per an NPDES Permit.

9. PLANS

Attach any plans sketches or diagrams which will clarify the information given on this application. (See Attached Plate 6)

The undersigned acknowledge they have read the instructions included with this application, and are aware no construction is to begin until this application has been approved by the Utah State Engineer

4.27.88
Date

Michael Whelan
Signature of Applicant

Water Rights in Order By _____ Date _____
Area Engineer's Hazard Rating _____
Reviewed by Dam Safety By _____ Date _____
Comments _____

Date of Approval _____

Robert L. Morgan, P.E.
State Engineer

1/21/86

APPLICATION TO CONSTRUCT
A DAM IMPOUNDING LESS
THAN 20 ACRE-FEET

STATE OF UTAH

Application No. _____
Received _____
Entered _____

The following application is submitted, pursuant to Section 73-5-12 of the Utah Code Annotated 1953, to obtain the authority to build a dam which will create a reservoir impounding less than 20 acre-feet

1. APPLICANT INFORMATION

NAME Andalex Resources, Inc. - Wildcat Loadout
ADDRESS P.O. Box 902
CITY Price COUNTY OF DAM Carbon
STATE Utah ZIP 84501

2. PURPOSE OF DAM

STOCK POND _____ REGULATING RES. _____ DIVERSION DAM _____
IRRIGATION _____ DEBRIS BASIN _____ FLOOD CONTROL _____
SEDIMENTATION XXX TAILINGS POND _____ RECREATION _____
OTHER (describe) (Sediment Pond "F")

3. LOCATION OF DAM

QUARTER/QUARTER (i.e. NESW) NWSE SECTION 33
TOWNSHIP 13 S. RANGE 9 E. BASE & MERIDIAN S.L.B.&M.

4. PROPOSED DAM

DAM HEIGHT (vertical distance) 7.0 FEET
CREST LENGTH (length of top of dam) 100 FEET
CREST WIDTH (width of top of dam) 20 FEET
UPSTREAM SLOPE 1 VERTICAL ON 2 HORIZONTAL
DOWNSTREAM SLOPE 1 VERTICAL ON 3 HORIZONTAL
WATER SURFACE AREA AT SPILLWAY CREST 0.18 ACRES
RESERVOIR CAPACITY AT SPILLWAY CREST 0.700 AC.FT.
TYPE OF DAM (i.e. earthfill, concrete, etc.,) _____
Earthfill (Pond Mostly Incised)

5. PROPOSED OUTLET

INSIDE DIAMETER 12 INCHES LENGTH 35 FEET
TYPE OF PIPE (i.e. concrete, steel, etc.,) Steel
TYPE OF GATE OR VALVE None (Inverted Inlet)
LOCATION OF GATE (upstream, downstream, center, etc.,) _____
None

6. PROPOSED SPILLWAY

CREST LENGTH (width of bottom of spillway) 4 FEET
DEPTH (from bottom of spillway to top of dam) 1 FEET
TYPE (i.e. earth channel, pipe, etc.,) Earth Channel

CONTROL (i.e. gates, flashboards, etc.,) None
(Emergency Spillway Only)

7. WATER RIGHTS

DESCRIBE (See Instructions) N/A

8. COMMENTS

This is a sediment control structure only. Runoff water is only stored for settling purposes and may be discharged per an NPDES Permit.

9. PLANS

Attach any plans sketches or diagrams which will clarify the information given on this application. (See Attached Plate 7)

The undersigned acknowledge they have read the instructions included with this application, and are aware no construction is to begin until this application has been approved by the Utah State Engineer

4.27.88
Date

Michael W. Hansen
Signature of Applicant

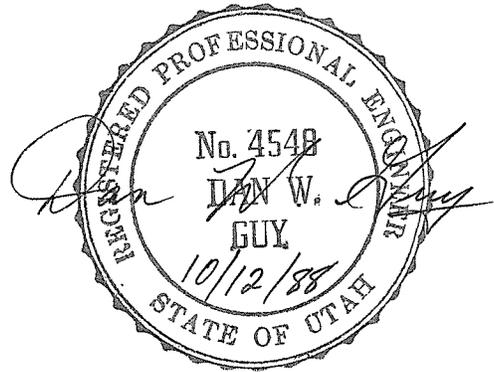
Water Rights in Order By _____ Date _____
Area Engineer's Hazard Rating _____
Reviewed by Dam Safety By _____ Date _____
Comments _____

Date of Approval _____

Robert L. Morgan, P.E.
State Engineer

Certification of Sediment Pond "E"
Wildcat Loadout

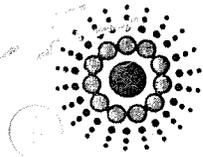
I, Dan W. Guy, a registered professional engineer, State of Utah No. 4548, do hereby certify that the Sediment Control Pond "E" at the Wildcat Loadout has been constructed in accordance with the plan and design criteria set forth in the Permit Application Package and meets the required performance standards outlined in UMC 817.46, with the exception that the pond, as presently constructed, is of insufficient size to contain the calculated volume of runoff and sediment from the drainage area to the Pond from a 10 year - 24 hour storm event. The pond is therefore scheduled to be enlarged to accommodate the required volume of runoff.



Certification of Sediment Pond "F"
Wildcat Loadout

I, Dan W. Guy, a registered professional engineer, State of Utah No. 4548, do hereby certify that the Sediment Control Pond "F" at the Wildcat Loadout has been constructed in accordance with the plan and design criteria set forth in the Permit Application Package and meets the required performance standards outlined in UMC 817.46.





ANDALEX
RESOURCES, INC.
Tower Division

P.O. BOX 902
PRICE, UTAH 84501
PHONE (801) 637-5385
TELEX 381 530 ANDALEX PRIC

April 27, 1988

Mr. Robert L. Morgan, P.E.
State Engineer
Utah Division of Water Rights
1636 West North Temple
Suite 220
Salt Lake City, Utah 84116-3156

Re: Andalex Resources, Inc.
Wildcat Loadout
PR0/007/033, #2
Carbon County, Utah

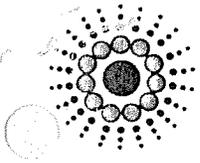
Dear Mr. Morgan:

Enclosed are R-69 forms for each of our six sediment ponds at the Wildcat Loadout Facility, along with maps and a Pond Specification Summary.

The Wildcat Loadout Facility was constructed in 1985 and all ponds were placed at that time. Recent changes in the Surface Mining Regulations have brought this facility under the permitting requirements of the Division of Oil, Gas, and Mining.

The site is relatively flat, with an average slope of approximately 5%. As a result, the sediment ponds are mostly incised, with little (if any) of the "dam" above natural ground level.

The ponds are used only for sediment control for disturbed area runoff, and do not involve storage of water for any use other than settling and discharge, in accordance with an approved NPDES Discharge Permit. No water rights are involved or impacted by these ponds.



ANDALEX

RESOURCES, INC.

Tower Division

I hope this information is satisfactory. If you have any questions or need any further information, please let me know.

Sincerely,

Michael W. Glasson

Senior Geologist

MWG/as

Enclosures

cc: Mark Page, Price Area Engineer
File ✓