



Interwest Mining Company
 Huntington Office
 P. O. Box 310
 15 North Main Street
 Huntington, UT 84528

Utah Division of Oil, Gas, and Mining
 Coal Program
 1594 West North Temple, Suite 1210
 Salt Lake City, Utah 84114-5801

March 4, 2019

Subject: Application for Phase I Bond Release for the Cottonwood/Wilberg Mine, PacifiCorp, Cottonwood/Wilberg Mine C/015/0019, Emery County, Utah

PacifiCorp, by and through its wholly-owned subsidiary, Interwest Mining Company (as managing agent), hereby submits an application for Phase I Bond Release for the Cottonwood/Wilberg mine complex and other supporting areas associated with the mine.

The bonded disturbed areas, which reflect this bond release application, total 27.39 acres and are described as follows:

Area	Location	Total Acreage	Land Ownership
Cottonwood/Wilberg Mine Leach Field Rock and Soil Storage Area	Township 17 South Range 7 East		
	Sec 27: W½NE¼	22.0	USFS
	Sec 34: NW¼NE¼	3.7	BLM
	Sec 34: NE¼NE¼	1.81	BLM
TMA and Belt Portal Area	Township 17 South Range 6 East		
	Sec 25: SW¼NE¼, NW¼SE¼	1.86	PacifiCorp
	Total	29.37	

Final reclamation of the bonded areas began in 2014 when the TMA and Belt Portal Area reclamation was completed in Cottonwood Canyon. Most recently, the Cottonwood/Wilberg mine complex and the Rock and Soil Storage Area were completed in March of 2018. The leach field was revegetated after construction in 1978. The access road through the site was reclaimed in September of 2015.

As required by the R645 Coal Rules, Phase I Bond Release can be considered after the applicant has demonstrated to the Division that all reclamation requirements for backfilling, regrading, and drainage control measures have been satisfied. Topsoil has also been replaced, drainage channels have been constructed, and sediment control measures (including revegetation) have been provided at all of these reclaimed sites. PacifiCorp asserts that it has satisfied the Phase I Bond Release requirements.

PacifiCorp has incorporated pertinent information for Phase I Bond Release as outlined in the Attachments included with this application. Specifically, these Attachments are:

March 4, 2019

Page 2 of 2

1. Reclamation Certification Form
2. Draft letter to interested parties
3. Draft advertisement for legal notice of bond release
4. Legal description of the bonded areas
5. Discussion of reclamation treatments
6. Brief history of mining and reclamation activities at Cottonwood/Wilberg Mine.
7. A summary of the current bond

Also included with this application are post mining contour maps indicating dates when reclamation was completed, disturbed boundaries, topsoil depths, etc. A C1 form is included that certifies that all information is true and correct.

After reviewing the contents of this application, please indicate when the legal notice for Phase 1 Bond Release can be published in the local Emery County newspaper. If you require further information or have concerns regarding the submitted application, please contact Dennis Oakley at 435-687-4825.

Sincerely,



Kenneth Fleck

Manager of Geology and Environmental Affairs

Encl Attachments 1 thru 7

Cc Scott Child – Interwest Mining Company, Salt Lake City Office
File

**PacifiCorp
Interwest Mining Company
Cottonwood/Wilberg Mine
C/015/0019**

Phase I Bond Release Application

Attachment 1: Reclamation Certification Form

PacifiCorp
Interwest Mining Company
COTTONWOOD/WILBERG MINE
C/015/0019

Phase I Bond Release on Approximately 29.37 Acres of Land Related to the Cottonwood/Wilberg Mine Complex and Remote Sites.

I hereby certify, to the best of my knowledge and belief, that all the information contained in this request is true and correct and that all applicable reclamation activities have been accomplished in accordance with the requirements of the Act, the regulatory program, and the approved reclamation plan.

Kenneth Fleck, Manager of Geology and Environmental Affairs

KENNETH S. FLECK

Print Name

Kenneth S. Fleck MGR, GEOLOGY & ENV. AFFAIRS FEB 13 2019
Signature, Position, Date

Subscribed and sworn to before me this 13th day of Feb., 2019.

Miranda Lofley
Notary Public

My Commission Expires: 03-26-2022

Attest: State of Utah
County of Emery



PacifiCorp
Interwest Mining Company
Cottonwood/Wilberg Mine
C/015/0019

Phase I Bond Release Application

Attachment 2: Copies of Letters to Interested Parties



Interwest Mining Company
 Huntington Office
 P. O. Box 310
 15 North Main Street
 Huntington, UT 84528

Darren Olsen
 District Ranger
 United States Forest Service
 Manti-LaSal National Forest
 599 West Price River Drive
 Price, Utah 84501

March 4, 2019

Copy of Original

Subject: Notification of PacifiCorp’s Intent to Seek Phase I Bond Release, PacifiCorp, Cottonwood/Wilberg Mine C/015/0019, Emery County, Utah

PacifiCorp, by and through its wholly-owned subsidiary, Interwest Mining Company (as mine managing agent), hereby submits to all parties who have a valid interest, a notice for the partial release of bond for the Cottonwood/Wilberg mine complex and its remote areas.

In March of 2018, Interwest Mining Company completed the last of its final reclamation responsibilities for the remaining disturbed areas of the mine by completing final reclamation of the Cottonwood/Wilberg mine in the left and right forks of the Grimes Wash and the rock and soil storage area approximately ½ mile to the south of the mine site adjacent to SR57.

The permit was issued pursuant to the Utah Coal Mining and Reclamation Act of 1979, Utah Code Annotated 40-10-1, by the Utah Division of Oil, Gas, and Mining on July 6, 2014 (revised May 18, 2015). This permit authorized the permittee (PacifiCorp) to conduct coal mining and reclamation operations within the described lands outlined below. The Phase I Bond Release application is submitted to release the permittee of certain responsibilities as described in the Utah Coal Mining Regulations. A general location map of these described lands is attached with this notification.

Areas Meeting the Requirements for Phase I Bond Release.

Area	Location	Total Acreage	Land Ownership
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Total		29.37	

Final Reclamation activities were conducted at the remote portals in Channel and Miller canyons in 1997 and 1999 as well as the Cottonwood Proposed Fan Portal area in 1999. All three of these areas have received Phase III Bond Release from the Utah Division of Oil, Gas, and Mining.

Underground mining operations at the Cottonwood and Wilberg mines were terminated in June 2001. All portals were sealed at that time. The mine sat idle from 2001 to 2014. In 2014, final reclamation was completed at the Trail Mountain Access (TMA) and belt portal area. Demolition of the Cottonwood/Wilberg mine complex was completed in 2015. Earthwork activities for this site began in August 2017 and was completed in March 2018.

Phase I Bond Release can be considered after the applicant has demonstrated to the Division that all reclamation requirements for backfilling, regrading, and drainage control measures have been satisfied. Topsoil has also been replaced, drainage channels have been constructed, and sediment control measures (including revegetation) have been provided at all of these reclaimed sites. PacifiCorp asserts that it has satisfied the Phase I Bond Release requirements.

The approved reclamation bond for the Cottonwood/Wilberg Mine amounts to \$2,365,895.00. A surety bond has been filed with the Division and is payable to the State of Utah, Division of Oil, Gas, and Mining (UDOGM), and the Office of Surface Mining Reclamation and Enforcement (OSM). PacifiCorp is requesting a release of 60% (\$1,419,537.00) of the reclamation bond as allowed by the Utah Coal Regulations.

As an interested party, you have the right to supply written comment, and/or objections to the project, or request a public hearing or informal conference. These comments and/or requests may be submitted to the Division of Oil, Gas, and Mining. The Division address is 1594 West North Temple, Suite 1210, P.O. Box 145801, Salt Lake City, Utah, 84114-5801. The closing date for submission of such comments and/or requests will be 30 days after the last publication of the public notice circulated in the local newspaper.

If you have any questions, comments, or concerns that require further information pertaining this bond release application, please feel free to call me at (435) 687-4825.

Sincerely,



Dennis Oakley
Sr. Mine Engineer

Encl

Cc US Forest Service, Manti-LaSal Ranger District
USDOI Bureau of Land Management
Utah Division of Water Quality
Utah State Historic Preservation Office
Division of Wildlife Resources - PFO
Emery County Commissioners
Emery County Planning Commission
Emery County Public Lands
Cottonwood Creek Consolidated Irrigation Company
Emery Water Conservancy District



Interwest Mining Company
 Huntington Office
 P. O. Box 310
 15 North Main Street
 Huntington, UT 84528

Chris Conrad
 Field Manager
 United States Department of the Interior
 Bureau of Land Management – Price Field Office
 125 South 600 West
 Price, Utah 84501

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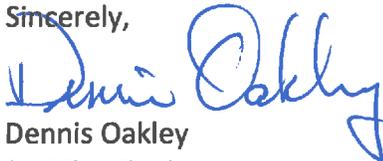
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Utah Division of Water Quality
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Division of Wildlife Resources - PFO
Emery County Commissioners
Emery County Planning Commission
Emery County Public Lands
Cottonwood Creek Consolidated Irrigation Company
Emery Water Conservancy District

Utah Department of Environmental Quality
Division of Water Quality
PO Box 144870
195 North 1950 West
Salt Lake City, Utah 84114-4870

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Underground mining operations at the Cottonwood and Wilberg mines were terminated in June 2001. All portals were sealed at that time. The mine sat idle from 2001 to 2014. In 2014, final reclamation was completed at the Trail Mountain Access (TMA) and belt portal area. Demolition of the Cottonwood/Wilberg mine complex was completed in 2015. Earthwork activities for this site began in August 2017 and was completed in March 2018. The UPDES discharge (UT0022896-003 Sediment Pond Outfall) was removed and ponds reclaimed.

Phase I Bond Release can be considered after the applicant has demonstrated to the Division that all reclamation requirements for backfilling, regrading, and drainage control measures have been satisfied. Topsoil has also been replaced, drainage channels have been constructed, and sediment control measures (including revegetation) have been provided at all of these reclaimed sites. PacifiCorp asserts that it has satisfied the Phase I Bond Release requirements.

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Utah State Historic Preservation Office
300 South Rio Grande Street
Salt Lake City, Utah 84101

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 Huntington Office
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Utah Division of Wildlife Resources
 319 North Carbonville Rd.
 Suite A
 Price Utah, 84501

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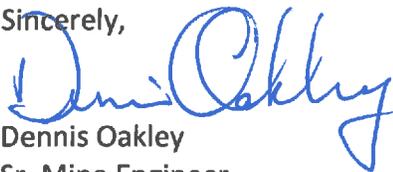
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March 4, 2019

Copy of Original

Subject: Notification of PacifiCorp’s Intent to Seek Phase I Bond Release, PacifiCorp, Cottonwood/Wilberg Mine C/015/0019, Emery County, Utah

PacifiCorp, by and through its wholly-owned subsidiary, Interwest Mining Company (as mine managing agent), hereby submits to all parties who have a valid interest, a notice for the partial release of bond for the Cottonwood/Wilberg mine complex and its remote areas.

In March of 2018, Interwest Mining Company completed the last of its final reclamation responsibilities for the remaining disturbed areas of the mine by completing final reclamation of the Cottonwood/Wilberg mine in the left and right forks of the Grimes Wash and the rock and soil storage area approximately ½ mile to the south of the mine site adjacent to SR57.

The permit was issued pursuant to the Utah Coal Mining and Reclamation Act of 1979, Utah Code Annotated 40-10-1, by the Utah Division of Oil, Gas, and Mining on July 6, 2014 (revised May 18, 2015). This permit authorized the permittee (PacifiCorp) to conduct coal mining and reclamation operations within the described lands outlined below. The Phase I Bond Release application is submitted to release the permittee of certain responsibilities as described in the Utah Coal Mining Regulations. A general location map of these described lands is attached with this notification.

Areas Meeting the Requirements for Phase I Bond Release.

Area	Location	Total Acreage	Land Ownership
Cottonwood/Wilberg Mine Leach Field Rock and Soil Storage Area	Township 17 South Range 7 East		
	Sec 27: W½NE¼	22.0	USFS
	Sec 34: NW¼NE¼	3.7	BLM
	Sec 34: NE¼NE¼	1.81	BLM
TMA and Belt Portal Area	Township 17 South Range 6 East		
	Sec 25: SW¼NE¼, NW¼SE¼	1.86	PacifiCorp
	Total	29.37	

Final Reclamation activities were conducted at the remote portals in Channel and Miller canyons in 1997 and 1999 as well as the Cottonwood Proposed Fan Portal area in 1999. All three of these areas have received Phase III Bond Release from the Utah Division of Oil, Gas, and Mining. Underground mining operations at the Cottonwood and Wilberg mines were terminated in June 2001. All portals were sealed at that time. The mine sat idle from 2001 to 2014. In 2014, final reclamation was completed at the Trail Mountain Access (TMA) and belt portal area. Demolition

of the Cottonwood/Wilberg mine complex was completed in 2015. Earthwork activities for this site began in August 2017 and was completed in March 2018.

Phase I Bond Release can be considered after the applicant has demonstrated to the Division that all reclamation requirements for backfilling, regrading, and drainage control measures have been satisfied. Topsoil has also been replaced, drainage channels have been constructed, and sediment control measures (including revegetation) have been provided at all of these reclaimed sites. PacifiCorp asserts that it has satisfied the Phase I Bond Release requirements.

The approved reclamation bond for the Cottonwood/Wilberg Mine amounts to \$2,365,895.00. A surety bond has been filed with the Division and is payable to the State of Utah, Division of Oil, Gas, and Mining (UDOGM), and the Office of Surface Mining Reclamation and Enforcement (OSM). PacifiCorp is requesting a release of 60% (\$1,419,537.00) of the reclamation bond as allowed by the Utah Coal Regulations.

As an interested party, you have the right to supply written comment, and/or objections to the project, or request a public hearing or informal conference. These comments and/or requests may be submitted to the Division of Oil, Gas, and Mining. The Division address is 1594 West North Temple, Suite 1210, P.O. Box 145801, Salt Lake City, Utah, 84114-5801. The closing date for submission of such comments and/or requests will be 30 days after the last publication of the public notice circulated in the local newspaper.

If you have any questions, comments, or concerns that require further information pertaining this bond release application, please feel free to call me at (435) 687-4825.

Sincerely,



Dennis Oakley
Sr. Mine Engineer

Encl

Cc US Forest Service, Manti-LaSal Ranger District
USDOI Bureau of Land Management
Utah Division of Water Quality
Utah State Historic Preservation Office
Division of Wildlife Resources - PFO
Emery County Commissioners
Emery County Planning Commission
Emery County Public Lands
Cottonwood Creek Consolidated Irrigation Company
Emery Water Conservancy District



Interwest Mining Company
 Huntington Office
 P. O. Box 310
 15 North Main Street
 Huntington, UT 84528

Emery County Planning Commission
 75 East Main Street
 Castle Dale, Utah 84513

March 4, 2019

Copy of Original

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Dennis Oakley
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Encl

Cc US Forest Service, Manti-LaSal Ranger District
USDOI Bureau of Land Management
Utah Division of Water Quality
Utah State Historic Preservation Office
Division of Wildlife Resources - PFO
Emery County Commissioners
Emery County Planning Commission
Emery County Public Lands
Cottonwood Creek Consolidated Irrigation Company
Emery Water Conservancy District

Emery County Conservancy District
Jay Mark Humphrey
50 South 100 East
Castle Dale, Utah 84513

March 4, 2019

Copy of Original

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Underground mining operations at the Cottonwood and Wilberg mines were terminated in June 2001. All portals were sealed at that time. The mine sat idle from 2001 to 2014. In 2014, final reclamation was completed at the Trail Mountain Access (TMA) and belt portal area. Demolition of the Cottonwood/Wilberg mine complex was completed in 2015. Earthwork activities for this site began in August 2017 and was completed in March 2018.

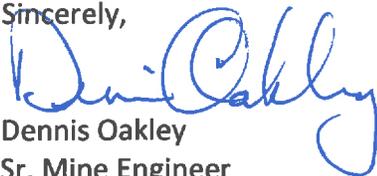
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Interwest Mining Company
 Huntington Office
 P. O. Box 310
 15 North Main Street
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Cottonwood Creek Consolidated Irrigation Company
 Craig Johansen
 65 East 100 North
 Castle Dale, Utah 84513

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**PacifiCorp
Interwest Mining Company
Cottonwood/Wilberg Mine
C/015/0019**

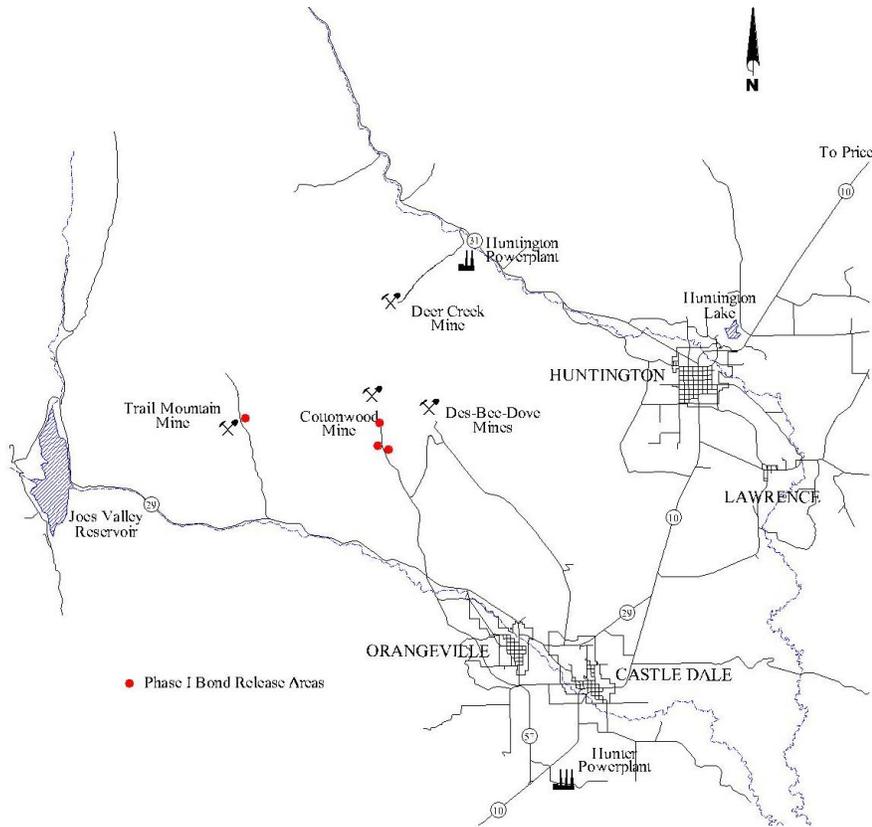
Phase I Bond Release Application

**Attachment 3: Copy of Published Legal Notice for Bond
Release**

**Phase I Bond Release Application
PacifiCorp
Cottonwood/Wilberg Mine
C/015/0019
Permit Approval Date: July 6, 2014 (revised May 18, 2015)**

PacifiCorp, by and through its wholly-owned subsidiary, Interwest Mining Company as mine manager, has filed with the Division of Oil, Gas and Mining an application for Phase I Bond Release for 29.37 acres of the Cottonwood/Wilberg Mine Complex and remote permit areas. Its permit for operations pertaining to surface and underground mining activities was approved on July 6, 2014 (revised May 18, 2015) for the following areas:

Area	Location	Total Acreage	Land Ownership
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	Sec 27: W½NE¼	22.0	USFS
	Sec 34: NW¼NE¼	3.7	BLM
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	Sec 25: SW¼NE¼, NW¼SE¼	1.86	PacifiCorp
	Total	29.37	



Underground mining operations at the Cottonwood and Wilberg mines were terminated in June 2001. All portals were sealed at that time. The mine remained in a state of temporary cessation from 2001 to 2014. In 2014, final reclamation was completed at the Trail Mountain Access (TMA) and belt portal area located adjacent to the Trail Mountain Mine in Cottonwood Canyon. Demolition activities of the Cottonwood/Wilberg mine complex was completed in 2015. In March of 2018, final reclamation for the remaining disturbed areas of the Cottonwood/Wilberg mine were completed in the left and right forks of Grimes Wash and the rock and soil storage area located approximately ½ mile to the south of the mine site adjacent to SR57.

Phase I Bond Release can be considered after the applicant has demonstrated to the Division that all reclamation requirements for backfilling, regrading, and drainage control measures have been satisfied. Topsoil has also been replaced, drainage channels have been constructed, and sediment control measures (including revegetation) have been provided at all of these reclaimed sites. PacifiCorp asserts that it has satisfied the Phase I Bond Release requirements.

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A copy of the Phase I Bond Release application may be examined at the office of the Division of Oil, Gas and Mining, 1594 West North Temple, Suite 1210, Salt Lake City, Utah 84114-5801 and also at the Records Office located in the Emery County Courthouse in Castle Dale, Utah. Written comments, objections, or requests for an informal conference may be submitted to the Division of Oil, Gas, and Mining address above. Said comments must be submitted thirty (30) days from the date of the last publication of this notice.

This notice is being published to comply with the Surface Mining Control and Reclamation Act of 1977, and State and Federal regulations promulgated pursuant to said Act.

Published in the Emery County ETV News Progress for four consecutive weeks beginning March 6, 13, 20, and 27, 2019.

PacifiCorp
Interwest Mining Company
Cottonwood/Wilberg Mine
C/015/0019

Phase I Bond Release Application

Attachment 4: Description of Bonded Areas

Phase I Bond Release Application for the Cottonwood/Wilberg Mine

Attachment 4 – Bonded Area Description

The **Cottonwood/Wilberg Mine** bonded area is found within the W½NE¼ of section 27, Township 17 South, Range 7 East. Total disturbed area is 22 acres.

The **Leach Field** is located in the NW¼NE¼ of section 34, Township 17 South, Range 7 East. It is better described as follows:

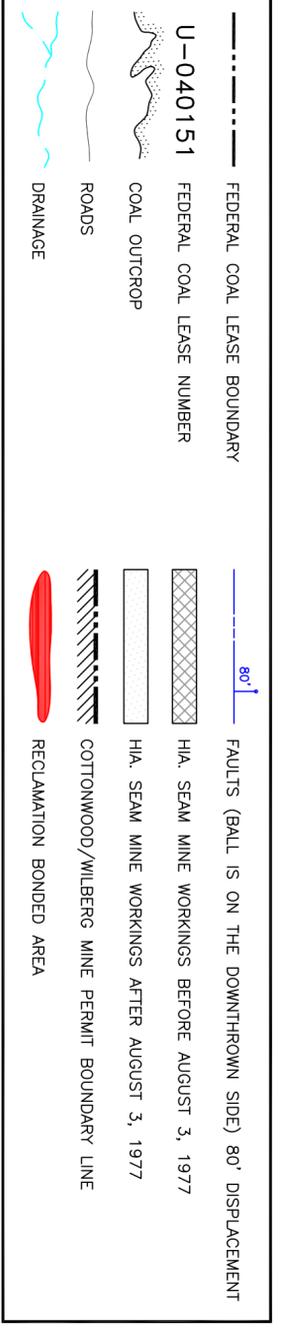
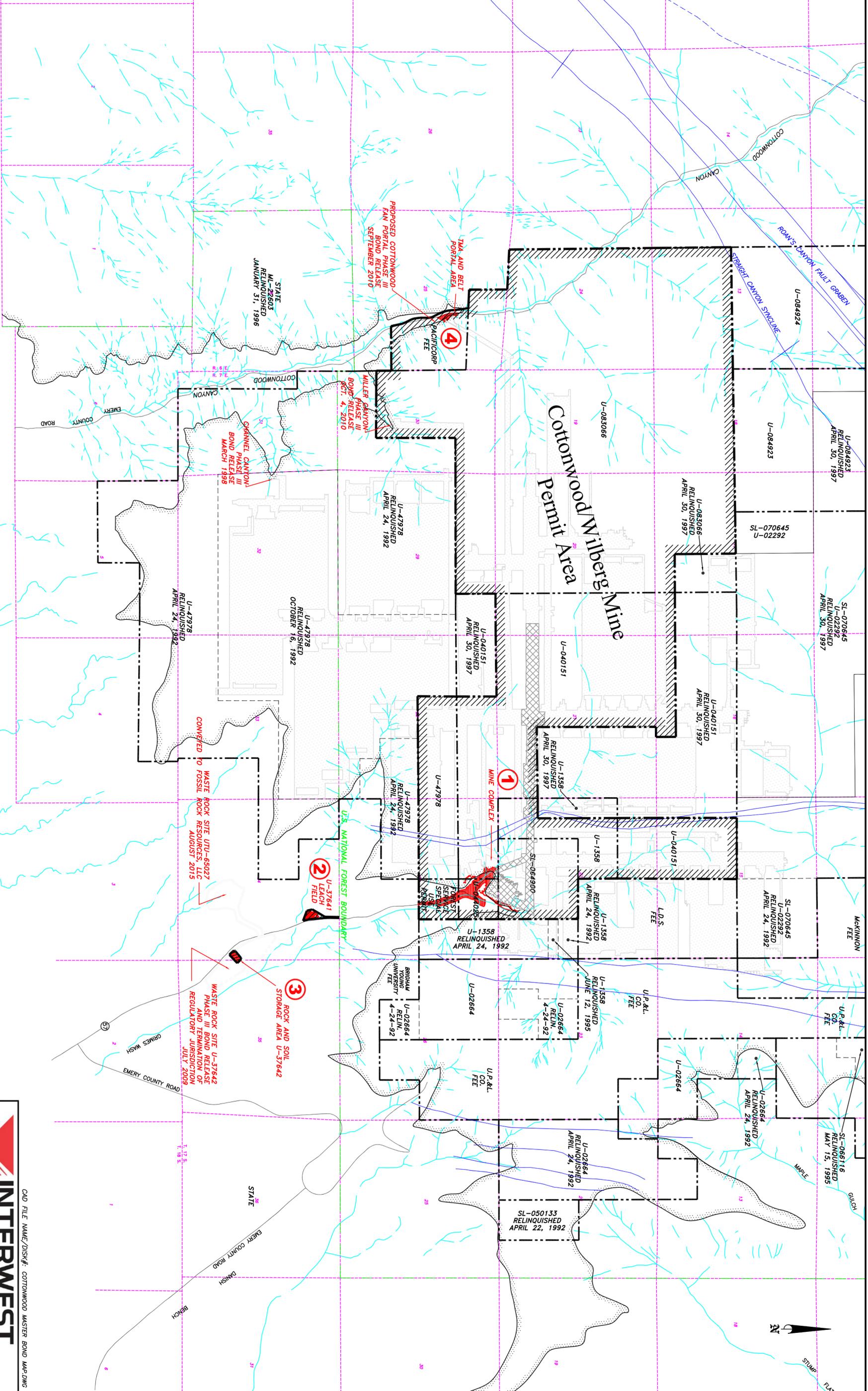
Beginning S52°06'48"W, 1664.59 ft. from the Sec. corners of 34, 27, 26, and 35, thence, S15°23'50"E, 193.05 feet; thence, N69°13'28"W, 354.72 feet; thence, N14°04'20"W, 185.61 feet; thence, N29°53'51"E, 488.38 feet; thence, N00°47'31"E, 474.97 feet; thence, E, 30 feet; thence, S00°47'31"W, 421.50 feet; thence, S04°55'10"E, 598.80 feet, to the point of beginning. Said parcel contains 3.70 acres more or less.

The **Rock and Soil Storage** bonded area is found within the NE1/4NE1/4 of section 34, Township 17 South, Range 7 East. Total disturbed area is 1.81 acres. It is better described as follows:

Beginning at a point S08°10,26"E, 758.72 feet from the east 1/4 corner of section 34, T. 17S., R.7E., SLB&M; thence, S46°00'31"W, 377.65 feet; thence, N45°52'24"W, 139.17 feet; thence, N32°54'05"W, 74.56 feet; thence, N23°41'14"E, 40.14 feet; thence, N50°27'20"E, 295.51 feet; thence, N69°41'04"E, 36.66 feet; thence, S44°45'52"E, 189.90 feet to the point of beginning. Said parcel contains 1.81 acres more or less.

The **TMA and Belt Portal** bonded areas is found within the SW¼NE¼, NW¼SE¼ of section 25, Township 17 South, Range 6 East. Total disturbed area is 1.86 acres.

The total disturbed area of the bonded areas of the Cottonwood/Wilberg Mine Complex is 29.37 acres. Refer to maps in this Attachment which delineate all disturbed areas.



- SITE NO. RECLAMATION BONDED AREAS**
- 1 COTTONWOOD/WILBERG MINE COMPLEX - SEE ENLARGEMENT CTWD BOND MAP 1
 - 2 LEACH FIELD - SEE ENLARGEMENT CTWD BOND MAP 2
 - 3 ROCK AND SOIL STORAGE AREA - SEE ENLARGEMENT CTWD BOND MAP 3
 - 4 TMA AND BELT PORTAL AREA - SEE ENLARGEMENT CTWD BOND MAP 4

CAD FILE NAME/DISK#: COTTONWOOD MASTER BOND MAP.DWG

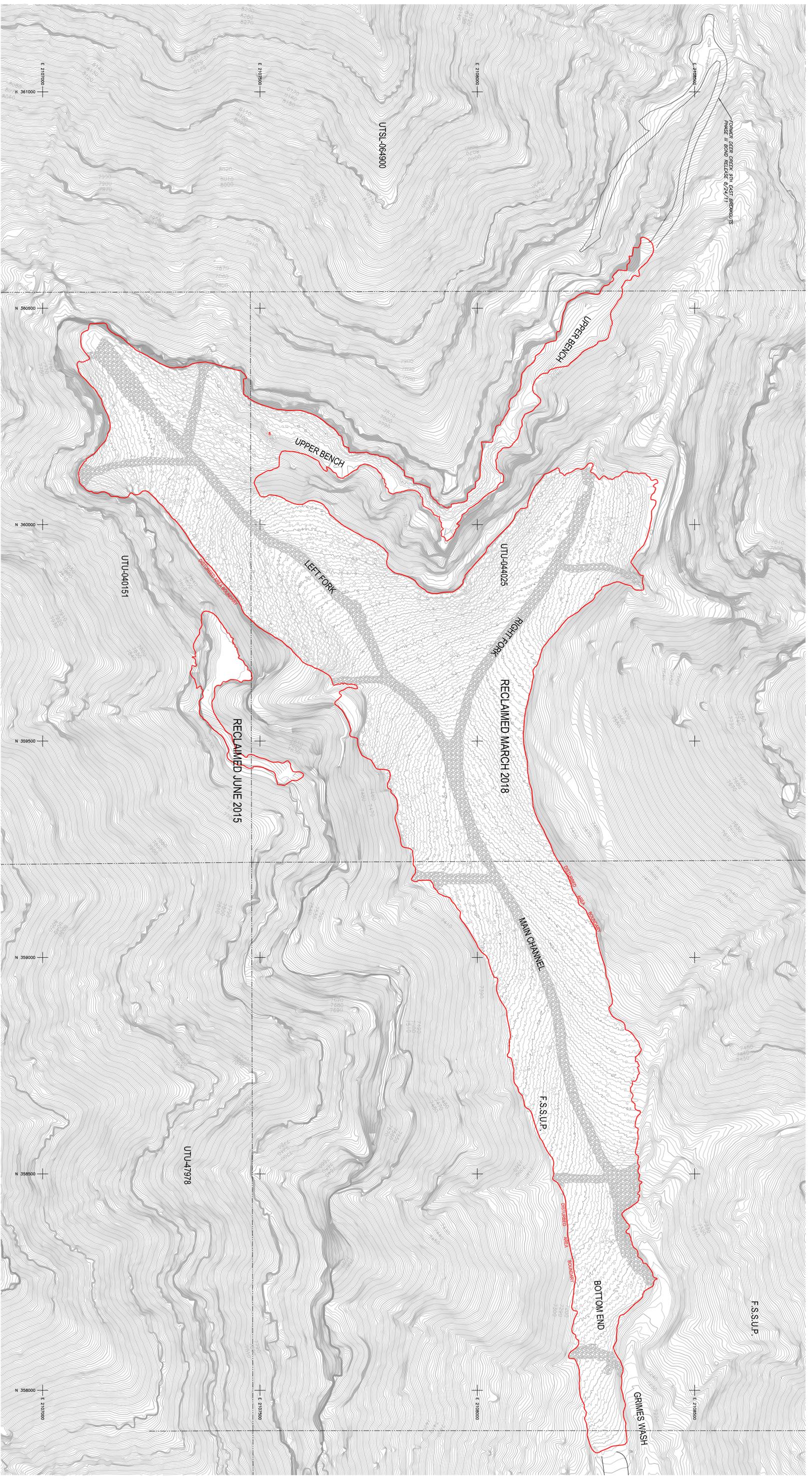
INTERWEST MINING COMPANY
A SUBSIDIARY OF PACIFICORP

COTTONWOOD/WILBERG COAL MINES MINE PERMIT AREA WITH RECLAMATION BONDED AREAS

DRAWN BY: K. LARSEN
SCALE: 1" = 2000'
DATE: FEBRUARY 2, 2011

COTTONWOOD MASTER BOND MAP
DRAWING #: _____
SHEET 1 OF 1
REV. _____

DATE	REVISONS	BY	CHK
2/23/10	UPDATED TO INCLUDE ALL RECLAIMED SITES, BONDED AREAS	BO	



LEGEND

 TOTAL DISTURBED AREA IS 22.0 ACRES
 UTU-040151 FEDERAL COAL LEASE NUMBER
 F.S.S.U.P. FOREST SERVICE SPECIAL USE PERMIT

Material Moved During Reclamation		Cut, yds ³	Fill, yds ³
Upper Bench		6,870	6,157
Right Fork		17,966	24,168
Main Channel		73,817	35,559
Bottom End		28,665	27,365
		0	12,859
Total Material Moved		127,318	106,108



2 Contour Intervals

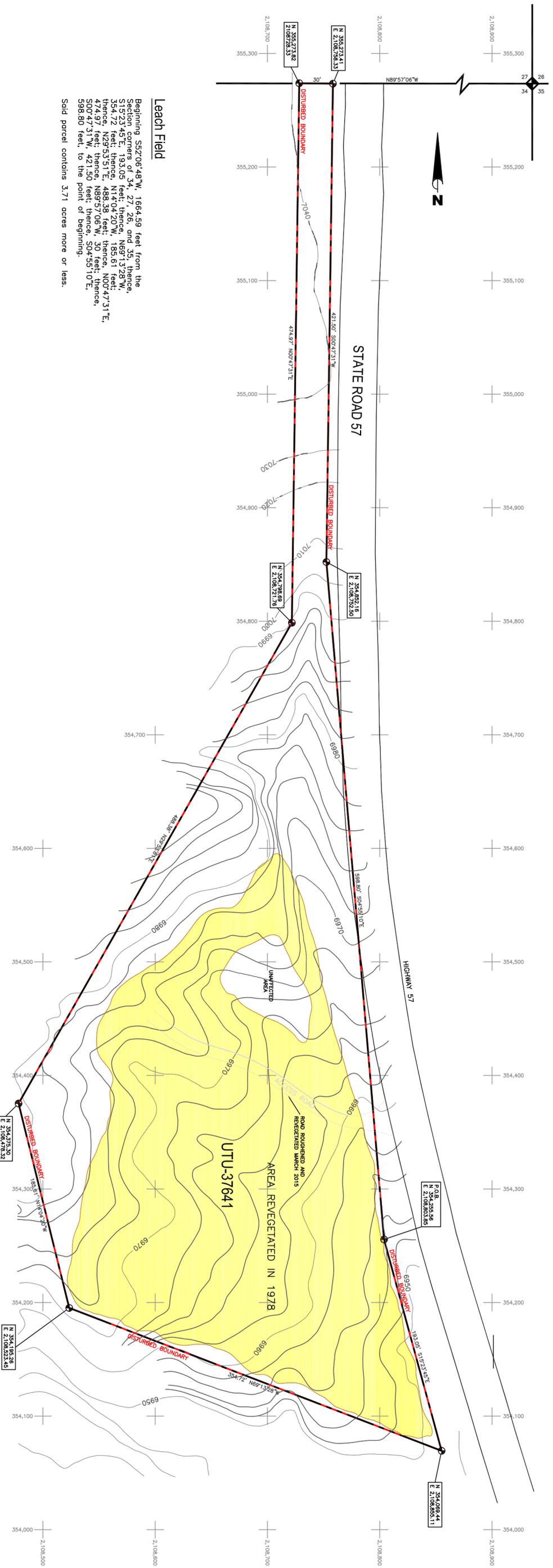
INTERWEST MINING COMPANY
A SUBSIDIARY OF PACIFICORP

**COTTONWOOD/WILBERG MINE
PHASE I FINAL RECLAMATION
MINE COMPLEX AS-BUILT MAP**

PHASE I-MAP 1

DRAWN BY: K. LARSEN
SCALE: 1" = 100'
DATE: OCTOBER 17, 2018

DATE	REVISIONS	BY	CHK.
2-13-18	CREATED PHASE I BOND MAP USING PLATE 48 OF THE MAP WITH RECLAM. DATES	DCO	
1-3-18	REVISED DISTURBED AND MIP BOUNDARIES	CAS	
10-5-18	REWORK TO REFLECT FINAL RECLAMATION AS-BUILT CONDITIONS	KAL	



Leach Field
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 Said parcel contains 3.71 acres more or less.

- LEGEND**
- UTU-37641 BLM RIGHT OF WAY
 - DISTURBED BOUNDARY
 - REGRADED AREA = 2.08 ACRES

PLAN VIEW OF LEACH FIELD
 SCALE: 1"=40'

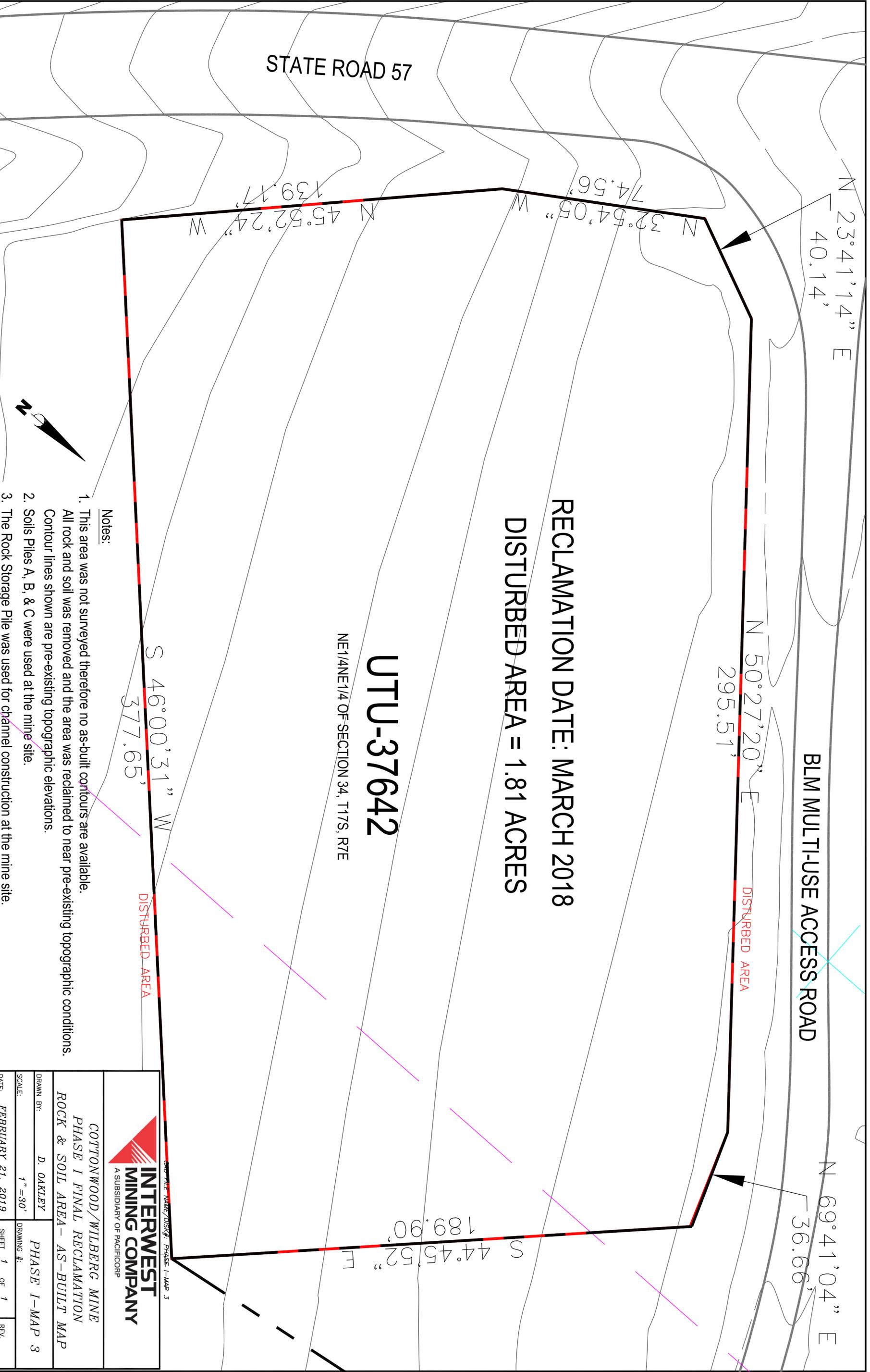
DATE	REVISIONS	BY	CHK
2/27/10	UPDATED DISTURBED AREA AND RECLAIMED AREA	BD	



COTTONWOOD/WILBERG COAL MINE
PHASE I FINAL RECLAMATION
LEACH FIELD AS-BUILT MAP

DRAWN BY: K. LARSEN PHASE I-MAP 2
 SCALE: 1"=40' SHEET 1 OF 1
 DATE: JULY 16, 2007 REV.

BLM Right-of-Way UTU-37641
 T. IYTS, R.T.E., S.L.B. & M.
 THIS DRAWING IS REPRODUCED FROM THE ORIGINAL
 ROBERTS & SCHAEFER DESIGN 7704-PP10
 CDR FILE NAME: 020046.PHASE I-MAP 2



N 23°41'14" E
40.14'

BLM MULTI-USE ACCESS ROAD

N 69°41'04" E
36.66'

N 50°27'20" E
295.51'
DISTURBED AREA

RECLAMATION DATE: MARCH 2018
DISTURBED AREA = 1.81 ACRES

UTU-37642

NE1/4NE1/4 OF SECTION 34, T17S, R7E

N 32°54'05" W
74.56'
N 45°52'24" W
139.17'

S 46°00'31" W
377.65'
DISTURBED AREA

S 44°45'52" E
189.90'

Notes:

1. This area was not surveyed therefore no as-built contours are available. All rock and soil was removed and the area was reclaimed to near pre-existing topographic conditions. Contour lines shown are pre-existing topographic elevations.
2. Soils Piles A, B, & C were used at the mine site.
3. The Rock Storage Pile was used for channel construction at the mine site.



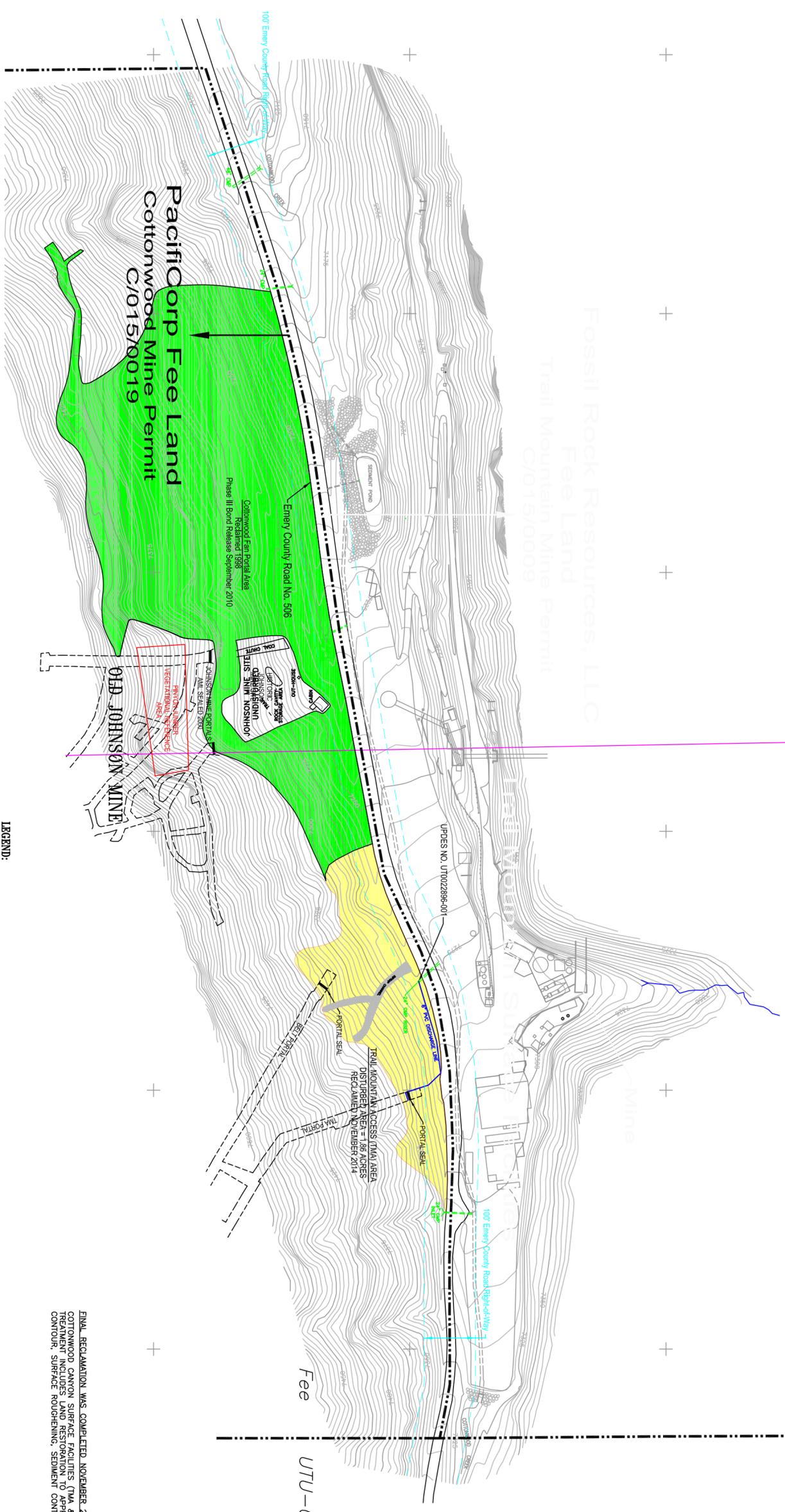
COTTONWOOD/WILBERG MINE
PHASE I FINAL RECLAMATION
ROCK & SOIL AREA - AS-BUILT MAP

DRAWN BY: D. OAKLEY
SCALE: 1" = 30'

DATE: FEBRUARY 21, 2019
SHEET 1 OF 1
REV. ---

SHEET FILE NAME/DISK#: PHASE I-MAP 3

PHASE I-MAP 3
DRAWING #



- LEGEND:**
- SURFACE DRAINAGE
 - - - CULVERT
 - - - COTTONWOOD PERMIT BOUNDARY



FINAL RECLAMATION WAS COMPLETED NOVEMBER 2014
 COTTONWOOD CANYON SURFACE FACILITIES (TMA & BELT PORTALS 1.86 ACRES)
 TREATMENT INCLUDES LAND RESTORATION TO APPROXIMATE ORIGINAL
 CONTOUR, SURFACE ROUGHENING, SEDIMENT CONTROL STRUCTURES, AND REVEG.



COTTONWOOD MINE
PHASE I FINAL RECLAMATION
TMA & BELT PORTALS AS-BUILT MAP

DATE: 2/21/2019	Converted CMT0892 to Phase I - Map 4	DOO
SCALE: 1" = 100'	DRAWING #:	REV.:
DATE: DECEMBER 15, 2010	SHEET 1 OF 1	REV.:

Fee UTU-083066

PacifiCorp
Interwest Mining Company
Cottonwood/Wilberg Mine
C/015/0019

Phase I Bond Release Application

Attachment 5: Discussion of Reclamation Treatments

Phase I Bond Release Application for the Cottonwood/Wilberg Mine

Attachment 5 – Reclamation Treatments Utilized at the Cottonwood/Wilberg Mine, Leach Field, Rock and Soil Storage Area, and TMA and Belt Portal Areas

At the conclusion of the backfilling and grading activities at the Cottonwood/Wilberg Mine, leach field, rock and soil storage area, and TMA and belt portal area, all surfaces were hay mulched with a certified weed free alfalfa hay and roughened either by deep gouge methods or roughening with the bucket of a back-hoe/track-hoe. The roughening process incorporates the hay mulch into the top layers of the surface. Once an area was roughened, an approved seed mixture was applied by hand. Hydromulch was applied as specified in the MRP. Fertilizer was added in the hydromulch mixture. For specific applications, see Volume 2, Part 4, R645-301-300 Biology. These processes are discussed below.

Final Reclamation occurred during the dates described below.

Site	Date of Last Seeding
Cottonwood/Wilberg Mine	March 2018
Leach Field*	Approximately September 1978
Rock and Soil Storage Area	March 2018
TMA and Belt Portal Area	November 2014

*Note: The leach field was permitted and constructed in 1978. PacifiCorp is unsure when the actual construction occurred, however plans designate a date of 9/1978. At the completion of construction, the site was regraded and seeded. The access road through the area was reclaimed in March 2015. Seed mixture for this site is found in Volume 2, Part 4, R645-301-300, Biology, Table 3-4.

Subsoil and Topsoil Placement at the Cottonwood/Wilberg Mine:

Topsoil was segregated in the areas proposed by the reclamation plan (refer to Volume 2, Part 4, R645-301-200 Soils) for the Cottonwood/Wilberg mine site. Approximately 10,000 cubic yards were excavated from the outslope of the mine facility pad and stored for use as substitute topsoil. The stored soils were utilized near the junction of the left and right forks of Grimes Wash. Placement was made immediately after rough grading was complete in the area.

Substitute topsoil was also stored at the rock and storage area. Approximately 3,256 cubic yards were transported to the mine site and used between the gate and the southern end of the main channel. Placement depth varied throughout the area.

For other areas where no substitute soil was available, use was permitted after visually inspecting soils using the best mix of sands, silts, clays, and organic matter. Once placed, the substitute topsoils were field tested for pH and electrical conductivity. During the course of field testing the company's testing equipment failed to give consistent results. Therefore, the samples were collected, shipped, and analyzed at the BYU Environmental Laboratory in Provo. The results of those analyses are attached. Sampling sites are presented on the included site map.

Mulching at all Reclaimed Sites of the Cottonwood/Wilberg Mine Complex:

After placement of the substitute topsoils was completed, a weed-free alfalfa hay mulch was incorporated at a rate of 2,000 lbs/acre or as outlined by the reclamation plan. The hay mulch was mixed into the topsoil layer using a track-hoe. This process added organic content and structure to the soil. The soil was then deep gouged (pocked) throughout the reclaimed area to maximize moisture retention and control of erosion. Pocks were designed (see design specs in Volume 2, Part 4, Reclamation Plan, R645-301-700: Hydrology) to control runoff from a 100yr/6hr storm event. Once pocking of each area was completed, an approved seed mix was spread by hand throughout the reclaimed site.

The seeded areas were then covered with a wood fiber hydromulch and applied at the rate outlined in the plan (typically 2000 lbs/acre and a tackifier applied at a rate of 150 lbs/acre). Fertilizer (urea: 46-0-0, premium garden fertilizer: 16-16-8) was mixed with the hydromulch and spread at a rate of approximately 40 lbs/acre. These applications were combined and applied in a one-step process. The seeding process was separate and prior to the mulching applications. Covering the newly seeded surfaces with hydromulch temporarily protects the exposed surfaces against erosion caused by rain drop impacts or interrill erosion until vegetation can become established on the reclaimed slopes.

Seed Mixture at all Reclaimed Sites of the Cottonwood/Wilberg Mine Complex:

Seed mixture were selected wherein all introduced species were eliminated. The seed mix adopted for each of the reclaimed areas are listed in Volume 2, Part 4, R645-301-300 of the Cottonwood/Wilberg MRP.

Sediment Control Structure Removal:

The sediment ponds at the Cottonwood/Wilberg Mine were removed as one of the last activities for reclaiming the site. All areas above the ponds were reclaimed (including the installation of permanent sediment control) prior to their removal.

Sediment control at the TMA and belt portal area utilized silt fence and straw wattles during reclamation activities. The leach field and rock and soil storage areas utilized limited sediment fence for control of sedimentation. These areas are nearly level and did not pose any risk for erosion and sedimentation.

Environmental Analytical Laboratory

soil–water–wastewater–biosolids–tissue
 1026 LSB, Brigham Young University, Provo, UT 84602
 801-422-2147 801-422-0008 (fax)
 eal@byu.edu http://eal.byu.edu

Name: Interwest Mining Company
 Address: 15 N. Main Street
 City, ST, ZIP: Huntington, UT 84528
 Date: December 12, 2018
 EAL Work Order: 1631

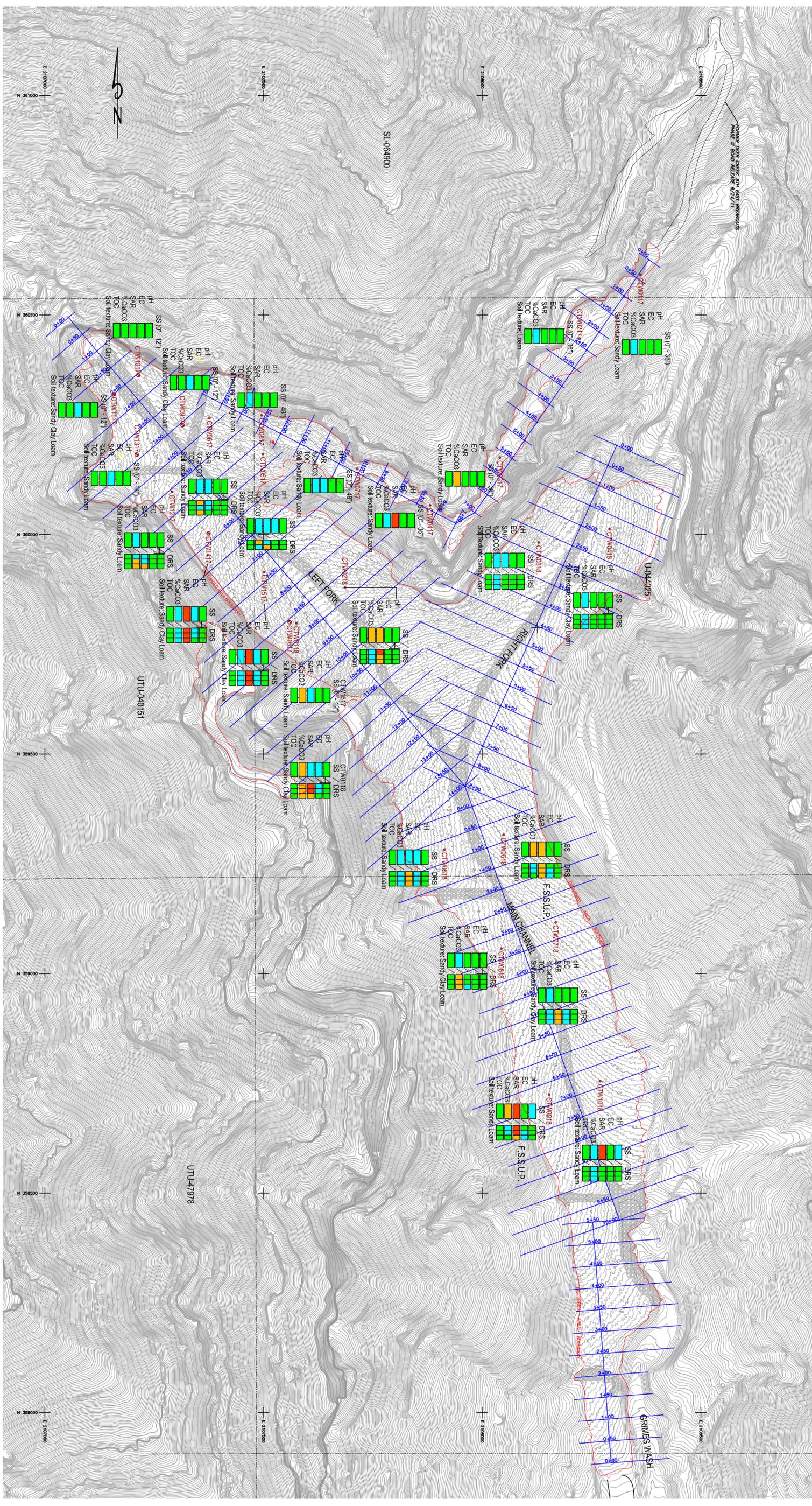
Customer Sample ID	Lab #	% OC	pH	EC dS/m	%Sand	%Clay	%Silt	Texture Classification	ppm Ca-SAR	ppm Mg-SAR	ppm Na-SAR	SAR	% Moisture Sat.	%CaCO ₃
CTW0117 0-36"	Q8 650	2.8	7.4	3.1	64.9	18.4	16.7	Sandy Loam	535	243	237	2.1	35.1	27.2
CTW0217 0-36"	Q8 651	5.5	7.5	3.1	48.9	20.4	30.7	Loam	577	383	163	1.3	39.7	28.8
CTW0317 0-36"	Q8 652	2.8	7.5	3.7	66.9	16.4	16.7	Sandy Loam	544	261	347	3.0	37.5	30.8
CTW0417 0-36"	Q8 653	2.3	8.1	3.4	62.9	18.4	18.7	Sandy Loam	66	26	914	24.1	22.7	27.0
CTW0517-1 0-12"	Q8 654	1.6	7.8	4.1	64.9	16.4	18.7	Sandy Loam	325	306	555	5.3	30.3	29.1
CTW0517-2 12-24"	Q8 655	1.2	8.2	3.1	66.9	16.4	16.7	Sandy Loam	215	151	480	6.1	30.4	31.1
CTW0517-3 24-36"	Q8 656	1.7	8.0	3.1	58.9	16.4	24.7	Sandy Loam	193	102	669	9.7	33.0	27.4
CTW0617-1 0-12"	Q8 657	1.2	7.7	3.9	58.9	16.4	24.7	Sandy Loam	512	264	455	4.1	30.6	27.7
CTW0617-2 12-24"	Q8 658	1.7	7.8	3.0	58.5	16.4	25.1	Sandy Loam	288	90	431	5.7	29.4	31.2
CTW0617-3 24-36"	Q8 659	2.7	7.8	3.5	58.5	16.4	25.1	Sandy Loam	474	138	587	6.1	35.8	29.9
CTW0617-4 36-48"	Q8 660	3.1	7.9	3.3	56.5	16.4	27.1	Sandy Loam	493	174	387	3.8	37.2	32.4
CTW0717 0-48"	Q8 661	1.1	7.6	3.4	62.5	16.8	20.7	Sandy Loam	422	176	492	5.1	31.4	27.3
CTW0817 0-48"	Q8 662	1.5	7.6	3.8	58.5	16.8	24.7	Sandy Loam	522	238	316	2.9	32.7	29.7
CTW1217-1 0-12"	Q8 663	1.4	7.8	1.6	58.2	18.8	23.1	Sandy Loam	154	139	246	3.4	30.3	29.1
CTW1217-2 12-24"	Q8 664	1.2	7.9	2.2	58.2	16.8	25.1	Sandy Loam	242	135	402	5.1	35.7	29.5
CTW1217-3 24-36"	Q8 665	0.4	7.9	1.6	66.2	14.8	19.1	Sandy Loam	126	62	403	7.3	23.8	31.0
CTW1217-4 36-48"	Q8 666	0.9	7.8	2.2	64.5	14.8	20.7	Sandy Loam	118	59	620	11.6	22.1	31.8
CTW1317 0-14"	Q8 667	1.0	7.9	2.8	62.9	16.8	20.4	Sandy Loam	240	181	530	6.3	28.1	26.9
CTW1417-1 0-12"	Q8 668	1.4	8.0	4.1	58.2	23.1	18.7	Sandy Clay Loam	67	27	1490	38.8	22.1	24.2
CTW1417-2 12-24"	Q8 669	1.3	8.3	5.3	58.2	19.1	22.7	Sandy Loam	164	44	2066	36.8	23.3	23.6
CTW1417-3 24-36"	Q8 670	2.2	8.1	5.1	56.2	21.1	22.7	Sandy Clay Loam	102	36	1914	41.3	24.7	25.5
CTW1417-4 36-48"	Q8 671	2.4	8.5	4.0	52.2	21.1	26.7	Sandy Clay Loam	129	67	1532	27.1	30.2	25.9
CTW1517-1 0-12"	Q8 672	1.9	7.7	6.0	56.2	21.1	22.7	Sandy Clay Loam	188	89	2291	34.4	24.1	27.9
CTW1517-2 12-24"	Q8 673	1.9	7.8	5.4	58.2	21.1	20.7	Sandy Clay Loam	140	65	1800	31.4	25.8	28.9
CTW1517-3 24-36"	Q8 674	1.9	7.7	7.0	55.2	20.4	24.4	Sandy Clay Loam	197	91	2307	34.0	27.4	29.1
CTW1517-4 36-48"	Q8 675	2.4	7.6	8.0	54.9	20.4	24.7	Sandy Clay Loam	420	200	2800	28.1	31.2	28.6
CTW1617 0-12"	Q8 676	0.7	7.7	7.0	58.9	19.4	21.7	Sandy Loam	782	905	925	5.3	30.6	36.2
CTW0118-1 0-12"	Q8 677	3.5	7.3	6.0	54.9	20.4	24.7	Sandy Clay Loam	718	520	1242	8.6	34.0	36.2
CTW0118-2 12-24"	Q8 678	2.4	7.6	7.5	54.9	20.4	24.7	Sandy Clay Loam	433	214	2758	27.0	31.2	37.2
CTW0118-3 24-36"	Q8 679	3.2	7.7	7.0	54.9	19.4	25.7	Sandy Loam	546	266	2338	20.4	32.7	36.4
CTW0118-4 36-48"	Q8 680	3.0	7.6	6.8	54.9	18.4	26.7	Sandy Loam	563	289	2134	18.2	32.6	35.4
CTW0218-1 0-12"	Q8 681	1.9	7.8	3.4	58.9	18.8	22.4	Sandy Loam	153	64	1041	17.7	27.1	35.7
CTW0218-2 12-24"	Q8 682	1.8	7.8	3.1	60.9	18.8	20.4	Sandy Loam	203	90	1890	27.6	29.1	25.3
CTW0218-3 24-36"	Q8 683	1.7	7.9	3.2	60.9	16.4	22.7	Sandy Loam	100	54	997	19.9	26.6	25.6
CTW0218-4 36-48"	Q8 684	1.6	7.9	3.1	60.9	16.4	22.7	Sandy Loam	104	73	959	17.5	28.5	23.6
CTW0318-1 0-12"	Q8 685	1.5	7.8	2.0	58.9	18.8	22.4	Sandy Loam	188	100	435	6.4	27.9	25.7
CTW0318-2 12-24"	Q8 686	2.6	7.7	1.3	68.9	16.4	14.7	Sandy Loam	192	58	147	2.4	29.6	25.6
CTW0318-3 36-48"	Q8 687	2.8	7.5	0.7	62.9	16.4	20.7	Sandy Loam	127	25	60	1.3	31.6	22.6
CTW0318-4 36-48"	Q8 688	3.6	7.9	0.9	68.9	14.4	16.7	Sandy Loam	199	47	77	1.3	33.7	23.0
CTW0418-1 0-12"	Q8 689	1.9	8.2	1.3	68.9	14.4	16.7	Sandy Loam	188	43	146	2.5	28.6	28.7
CTW0418-2 12-24"	Q8 690	1.3	7.5	1.6	60.9	16.4	22.7	Sandy Loam	181	87	215	3.3	30.1	24.5
CTW0418-3 24-36"	Q8 691	1.2	7.6	1.3	64.9	16.4	18.7	Sandy Loam	158	71	148	2.5	29.7	25.2
CTW0418-4 36-48"	Q8 692	1.3	7.5	1.5	64.9	18.4	16.7	Sandy Loam	175	81	218	3.4	27.9	27.8
CTW0518-1 0-12"	Q8 693	2.6	7.4	4.9	66.9	16.4	16.7	Sandy Loam	523	193	1042	9.9	32.2	25.3
CTW0518-2 12-24"	Q8 694	2.6	7.5	6.8	66.9	16.4	16.7	Sandy Loam	620	248	1490	12.7	31.3	25.3
CTW0518-3 24-36"	Q8 695	1.8	7.5	5.3	66.9	16.4	16.7	Sandy Loam	539	203	1193	11.1	31.0	27.1
CTW0518-4 36-48"	Q8 696	2.2	7.6	5.0	66.9	16.4	16.7	Sandy Loam	516	183	1127	10.8	34.0	26.1
CTW0618-1 0-12"	Q8 697	1.9	7.8	2.8	64.9	14.4	20.7	Sandy Loam	140	47	639	11.9	31.6	34.8
CTW0618-2 12-24"	Q8 698	2.1	7.9	2.9	62.9	16.4	20.7	Sandy Loam	125	57	679	12.6	31.8	25.6
CTW0618-3 24-36"	Q8 699	0.6	8.1	2.7	62.9	18.4	18.7	Sandy Loam	75	45	636	14.3	29.3	29.2
CTW0618-4 36-48"	Q8 700	1.0	8.0	3.3	60.2	18.4	21.4	Sandy Loam	101	73	820	15.1	28.6	25.3
CTW0718-1 0-12"	Q8 701	1.8	7.6	3.9	56.2	20.12	23.7	Sandy Clay Loam	500	341	407	3.4	33.2	21.3
CTW0718-2 12-24"	Q8 702	2.1	7.7	7.1	56.2	18.4	25.4	Sandy Loam	607	325	1372	11.1	34.9	25.2
CTW0718-3 24-36"	Q8 703	0.9	7.8	6.5	58.2	17.12	24.7	Sandy Loam	327	196	1362	14.6	30.3	27.4
CTW0718-4 36-48"	Q8 704	0.4	8.1	5.4	60.4	17.12	22.4	Sandy Loam	142	128	1197	17.5	30.6	25.4

Environmental Analytical Laboratory

soil–water–wastewater–biosolids–tissue
 1026 LSB, Brigham Young University, Provo, UT 84602
 801-422-2147 801-422-0008 (fax)
 eal@byu.edu <http://eal.byu.edu>

Name: Interwest Mining Company
 Address: 15 N. Main Street
 City, ST, ZIP: Huntington, UT 84528
 Date: December 12, 2018
 EAL Work Order: 1631

Customer Sample ID	Lab #	% OC	pH	EC dS/m	%Sand	%Clay	%Silt	Texture Classification	ppm Ca-SAR	ppm Mg-SAR	ppm Na-SAR	SAR	% Moisture Sat.	%CaCO ₃
CTW0818-1 0-12"	Q8 705	1.4	7.7	3.7	57.8	19.12	23.1	Sandy Loam	530	336	313	2.6	34.0	23.8
CTW0818-2 12-24"	Q8 706	1.1	7.7	3.0	64.2	13.12	22.7	Sandy Loam	543	214	255	2.3	30.3	33.2
CTW0818-3 24-36"	Q8 707	0.6	7.9	1.3	55.4	21.12	23.4	Sandy Clay Loam	117	40	191	3.9	26	37.6
CTW0818-4 36-48"	Q8 708	2.8	7.9	1.0	70.2	13.12	16.7	Sandy Loam	67	15	240	6.9	26	31.7
CTW0918-1 0-12"	Q8 709	1.7	8.3	2.8	78.2	14.4	7.4	Sandy Loam	36	16	714	24.9	30	36.9
CTW0918-2 12-24"	Q8 710	1.9	8.1	4.6	78.2	16.4	5.4	Sandy Loam	32	13	548	20.7	26	29.0
CTW0918-3 24-36"	Q8 711	2.6	7.9	6.2	64.9	14.4	20.7	Sandy Loam	136	42	1600	30.7	31	24.6
CTW0918-4 36-48"	Q8 712	0.6	7.8	8.0	72.2	13.12	14.7	Sandy Loam	594	86	1806	18.3	32	11.4
CTW1018-1 0-12"	Q8 713	1.6	7.8	3.3	58.2	18.4	23.4	Sandy Loam	292	414	336	3.0	31	29.8
CTW1018-2 12-24"	Q8 714	0.3	8.2	0.7	62.2	17.12	20.7	Sandy Loam	41	70	48	1.0	29	27.2
CTW1018-3 24-36"	Q8 715	0.2	8.0	0.6	60.2	16.4	23.4	Sandy Loam	34	62	39	0.9	27	26.3
CTW1018-4 36-48"	Q8 716	0.4	7.9	0.9	66.2	17.12	16.7	Sandy Loam	53	91	72	1.4	30	25.9



- Legend**
- 0-1' Depth - Surface Sample Only
 - 4 Samples at 1' Depth Intervals Up to 4' (Unless Otherwise Noted)

Soil Suitability/Unsuitability Evaluation (DOGM Guidelines for Management of Topsoil and Overburden - Table 4)

Evaluation Criteria	Surface Soil (SS) 0' - 12' / Deep Root Zone Soil (DRS) 12' - 24' - 24' - 36' - 36' - 48'
Good	Green
Fair	Yellow
Poor	Orange
Unacceptable	Red

Parameter	Good	Fair	Poor	Unacceptable
pH	6.5 - 8.0	6.0 - 6.4	5.5 - 6.0	<5.5
EC	8.2 - 8.5	8.6 - 9.0	>9.0	>9.0
SAR	0 - 4	4 - 8	8 - 15	>15
%CaCO3	<15	15 - 30	>30	>30 (sandy soils)
TOC	<10%			
Soil texture	Loam/Sandy Clay Loam/Sandy Loam			

Example for location: CTW0818



KENNETH S. FLECK LICENSED PROFESSIONAL ENGINEER DO HEREBY CERTIFY THAT THE INFORMATION CONTAINED ON THIS DRAWING IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Note: Cross-sections for the baseline on this map are found on Map 4C (6 maps)

APPENDIX A-2



COTTONWOOD/WILBERG MINE		DRAWN BY: K. LARSEN	
FINAL RECLAMATION MAP		SCALE: 1" = 100'	
SUBSTITUTE TOPSOIL SAMPLING LOCATIONS		DATE: OCTOBER 17, 2018	
SHEET 1 OF 1		REV. _____	

DATE	DESCRIPTION	BY	CHK.
12-18-18	ADDED SOIL SUITABILITY SAMPLING DATA	CAS	
12-7-18	REVISED DISTURBED BOUNDARY	CAS	
	REVISIONS		

**PacifiCorp
Interwest Mining Company
Cottonwood/Wilberg Mine
C/015/0019**

Phase I Bond Release Application

**Attachment 6: Brief History of Mining and Reclamation at the
Cottonwood/Wilberg Mine**

Phase I Bond Release Application for the Cottonwood/Wilberg Mine

Attachment 6 – History of the Mine and Its Operations

Introduction

PacifiCorp owns and leases certain fee coal lands, together with assigned federal coal leases, and controls approximately 22,500 acres of contiguous minable property located in Emery County, Utah. Geographically, the area is known as East Mountain, a large, relatively flat plateau, containing three minable coal seams.

Coal was mined through three separate mines: Deer Creek Mine, Cottonwood/Wilberg Mine, and the Des Bee Dove Mine. The Cottonwood/Wilberg Mine reserve base was depleted and the mine was put in a state of temporary cessation in 2001. Since that time, all areas of the Cottonwood/Wilberg mining complex, including all remote sites, have been completely reclaimed. The last site to be reclaimed was the Cottonwood and Wilberg mine sites and the rock and soil storage area which is located approximately ½ mile south of the mine site in the Grimes Wash drainage system.

Several federal coal leases are coincidental to both the Cottonwood/Wilberg and Deer Creek mines as the mines are superimposed. The description of the permit area for both mines is listed in their respective permits. Both mines are owned and operated by PacifiCorp.

Three coal seams existed in the Cottonwood/Wilberg mine area; Blind Canyon seam (upper), Cottonwood seam (middle), and Hiawatha seam (lower). The Cottonwood and Hiawatha seams contained excessive in-seam temperature gradients in which some areas of the potential mining reserves were determined as unmineable. The majority of coal produced from Cottonwood Mine was from the Hiawatha seam. The coal haulage system (beltline) of the Cottonwood/Wilberg Mine was located in this seam.

Faulting has affected the Cottonwood/Wilberg Mine plan as the faults intersected the mineable reserves. Faults that have influenced mining are the Pleasant Valley Fault, Deer Creek Fault, and the Roans Canyon Fault.

In the Cottonwood/Wilberg Mine, the Hiawatha coal seam is bounded on the north by the thinning of the seam below five feet in thickness. On the east, the seam is bounded by the Deer Creek Fault and the Pleasant Valley Fault. On the south and west, the seam is bounded by the coal outcrop and lease border, respectively.

The Blind Canyon seam within the Cottonwood/Wilberg Mine lies approximately 100 feet above the Hiawatha seam. This seam is bounded on the north by the Deer Creek Mine workings. The east, south and west is bounded by the thinning seam of less than five feet in thickness.

Since part of the Cottonwood/Wilberg Mine was overlain by areas of the Deer Creek Mine, the upper seam was mined prior to mining the lower seam. In addition, the Deer Creek mining plans were designed with a system of barriers to protect a 345KV power line that cross over the surfaces areas of the mine permit.

Wilberg Mine

The Wilberg Mine was acquired by Peabody Coal Company in 1958. In March 1977, Utah Power and Light (UP&L) acquired the mine from Peabody Coal and was officially listed as the lessee on September 1, 1977. In 1982, UP&L successively bid the South Lease (U-47978) federal coal tract.

On July 1, 1985, the Wilberg Mine and the South Lease area were separated into two distinct mines; the Wilberg Mine (MSHA ID No. 42-00080) and Cottonwood Mine (MSHA ID No. 42-01944). Each mine operated independently of the other utilizing separate equipment and ventilation systems. The Wilberg portals are located on the north coal outcrop in Grimes Wash on the southern end of East Mountain. Mine personnel and coal transfer facilities were located at the Wilberg portal.

The Cottonwood portals were located on the south coal outcrop of the Grimes Wash. These portals provided for men and equipment access, underground conveyor belt coal haulage system, and mine ventilation. Although they were separate underground operations, the two mines share common surface facilities, thus forming the Cottonwood/Wilberg complex.

Cottonwood/Wilberg Mine

The Cottonwood/Wilberg Mine surface facilities occupy approximately twenty acres of disturbed land at the confluence of the Left and Right forks of Grimes Wash. The surface facilities include coal handling, electrical substation, equipment maintenance, material storage, parking areas and drainage and sediment control structures. Office, bathhouse and warehouse facilities were located underground.

Cottonwood/Wilberg, Des Bee Dove, and Trail Mountain Waste Rock Sites

Bureau of Land Management Right-of-Way UTU-37642: Located 1.5 miles south of the Cottonwood/Wilberg Mine, the original 48.62 acre site was designed as an open storage and truck loadout for the mine. The Right of Way (ROW) grant, UTU-37642 (east side of State Highway 57), was issued by the Bureau of Land Management (BLM) in 1977, but the development of a

concrete storage silo for coal on site eliminated the need for the loadout. A modification was submitted to use this land for underground development waste storage in connection with underground development ongoing in the Cottonwood/Wilberg Mine. The ROW has been modified to accommodate coal bed methane degasification conducted by Texaco Inc.

The modification includes:

- 1) 1997 relinquishment of 1.08 acres (access to Texaco well 35-14).
- 2) 1999 relinquishment of 12.98 acres (Texaco well 34-80).

Historically, the Cottonwood/Wilberg Waste Rock Site was located in the southern portion of this ROW. Phase III Bond Release was granted in July 22, 2009 for this area. Of the original 48.62 acre site, only 1.81 acres of the reclaimed rock and soil storage area remain that hasn't been released from bond.

Bureau of Land Management Right-of-Way UTU-65027: Located 1.7 miles south of the Cottonwood/Wilberg Mine is BLM ROW UTU-65027 (west side of State Highway 57). This 25.85 acre site was used for underground waste storage in connection with underground development ongoing in the Trail Mountain Mine. This was deeded to Bowie Resources Inc. in August 2015.

Reclamation of various disturbed areas of the Cottonwood/Wilberg Mine has occurred over the past several years. The table below describes the site locations, use, disturbed acres, reclamation activities performed, and the status of each area.

Site	Use	Disturbed Acreage	Reclamation Treatment*	Status
Cottonwood Fan Portal Area	Area was proposed for the construction of a ventilation fan system. Plans were dropped in 1984 after the Wilberg Mine fire.	Originally approximately 9.33 acres were disturbed.	Final reclamation completed on all areas of this site.	Phase III bond release approved September 2010 on 7.47 acres. The remaining 1.86 acres (TMA and belt portal area) was reclaimed in 2014.
Channel Canyon Breakouts	Two ventilation portal breakouts	Note: portal broke out to the surface on a rock outcropping ledge. No disturbance occurred.	Sealed portals with solid concrete blocks. Coated face of seal with concrete and tar to blend in the existing outcropping coal.	Phase III Bond Release approved March 26, 1998.
Miller Canyon Ventilation Breakouts	Three ventilation portal breakouts	0.01 acres each portal	Portals were sealed inside mine with	Phase III Bond Release approved October

Site	Use	Disturbed Acreage	Reclamation Treatment*	Status
			solid concrete blocks. Final reclamation was accomplished utilizing helicopter transport of materials. Earthwork activities were accomplished by using hand tools.	2010.
Leach Field	Site was used to dispose of waste-water from both Cottonwood/Wilberg and Trail Mountain Mine during their operational phases.	This BLM right of way area is 3.7 acres in size. There are approximately 2.08 acres of disturbance although the permit indicates the 3.7 acres disturbed.	Final reclamation of the site occurred after construction in 1978. Access road through the site was reclaimed in 2015.	Included in the total disturbance of the Cottonwood/Wilberg mine operations.
Cottonwood/Wilberg/Trail Mountain "New Waste Rock Site	Site was used to dispose of waste rock material from both Cottonwood/Wilberg and Trail Mountain Mine during their operational phases.	This BLM right of way (UTU-65027) was 25.85 acres. The site was deeded to Bowie Resources in August 2015.	None	No longer included in the total disturbance of the Cottonwood/Wilberg mine operations.
Wiberg Mine "Old" Waste Rock Site	The 48.62 acre site was originally planned for a silo and truck loadout facility. These plans were abandoned. About half of the area was utilized for waste rock storage.	Originally 15.62 acres were disturbed for the storage of waste rock, rock and soil salvaged from facility construction. Only 1.81 acres is	The waste rock site was contemporaneously reclaimed throughout its life. Final reclamation of rock and soil storage area completed March 2018.	Phase III Bond Release approved July, 2009 on 13.81 acres. The only remaining disturbance is a 1.81 acre rock and soil storage area that was reclaimed in March 2018.

Site	Use	Disturbed Acreage	Reclamation Treatment*	Status
		currently disturbed.		
Cottonwood/Wilberg Mine Complex	Surface facilities supporting the underground operations.	22 acres	Reclamation activities began in November 2014 and completed in March 2018.	Included in the total disturbance of the Cottonwood/Wilberg mine operations.

*Final reclamation includes: surface roughening, hay mulching, and seeding with approved seed mix.

PacifiCorp
Interwest Mining Company
Cottonwood/Wilberg Mine
C/015/0019

Phase I Bond Release Application

Attachment 7: Current Bond Summary

Phase I Bond Release Application for the Cottonwood/Wilberg Mine

Attachment 7 – Current Total Bond Amount and Incremental Amount Requested for Release

The previous bond of \$2,365,895 (2016 dollars) for the Cottonwood/Wilberg Mine has been escalated to 2021 dollars equaling \$2,443,081. However, a surety bond is filed with the Division for \$2,779,000.00. For the Phase I Bond Release application, PacifiCorp is requesting a 60% release on its reclamation liability (see below). Once the application is approved, PacifiCorp will obtain a bond decrease rider reducing the surety from its current amount of \$2,779,000.00 to \$977,232.00, the remaining reclamation liability for the entire Cottonwood/Wilberg Mine.

A summary of the bond escalated to 2021 dollars is shown in the table below. **Note: the total bond in 2021 dollars includes previously approved Phase III Bond Release applications and property conveyances.**

Direct Costs

Grimes Wash Facility

Demolition	\$967,887.38
Earthwork	\$673,586.42
Revegetation	<u>\$36,172.85</u>
Subtotal	\$1,677,646.66

Overland Conveyor

Demolition	\$23,494.49
Earthwork	\$10,825.80
Revegetation	<u>\$3,061.91</u>
Subtotal	\$37,382.20

Total Direct Costs **\$1,715,028.86**

Indirect Costs

Mob/Demob	\$171,503.00	10.0%
Contingency	\$85,751.00	5.0%
Engineering Redesign	\$42,876.00	2.5%
Main Office Expense	\$116,622.00	6.8%
Project Management Fee	<u>\$42,876.00</u>	2.5%

Total Indirect Costs **\$459,628.00** 26.8%

Total Cost (2011 Dollars) \$2,174,656.86

Escalation factor 0.017
Number of years 5
Escalation \$191,238.00

Bond Amount (2016 Dollars) \$2,365,895

Escalation factor 0.007
Number of years 5
Escalation \$77,186.00

Bond Amount (2021 Dollars) \$2,443,081

* Refer to Cottonwood/Wilberg MRP, Volume 2, Part 4, Appendix C, Bond Summary Page

Calculations for bond release:

Cottonwood/Wilberg current bond liability	\$2,443,081.00
Allow 60% release	\$1,465,849.00
Remaining liability after approval of Phase I Bond Release	\$977,232.00