



U.S. DEPT. OF THE INTERIOR
OFFICE OF SURFACE MINING

RECEIVED

AUG 16 2016

Mine Site Evaluation
State Program

DIV. OF OIL, GAS & MINING



1. Permittee/Person PACIFICORP		9. Permit Number C0150019	10. Permit Type PP
2. Address 1407 WEST N. TEMPLE, SUITE 310		11. Field Visit Date 8/4/2016	12. Purpose OP
3. City SALT LAKE CITY		13. SRA Present Y	
4. State UT	5. Zip Code 84116	14. Permit Status A	15. Site Status MC
6. Phone Number (801) 220-2000	7. Operator Name, if Different than Permittee INTERWEST MINING CO	16. Facility Type B	17. OSM Office # 140
8. Mine Name COTTONWOOD/WILBERG	18. CCID #	19. Land Code F	20. M.S.H.A. ID #
	21. State Abbrev. UT	22. County/Burrough EMERY	23. AVS Permittee Entity ID Number 108521
	24. State Office		

25. Hours

6.0	a. Permit Review
6.0	b. Site Visit Time
13.0	c. Travel Time
3.0	d. Report Writing

26. Signature Block

Christine Belka
Signature

Christine Belka, ID#182
Printed Name

Date: 8/12/2016

27. Reviewing Official:

Alan Robinson
Signature

Review Date: 08-12-2016
mm - dd - yyyy

Is Supplemental MSE Page Used Y/N Y

Permit Type - Item 10 IP = Interim Program PP = Permanent Program NP = No Permit

Purpose Type Codes - Item 12
Oxx - Oversight Rfx - Reclamation Fees CCR - Citizen Complaint Referral (non-site visit)
Axx - Assistance Fxx - Federal Actions CC - Citizen Complaint (initial site visit)
CCF - Assistance

Joint Inspection - Item 13 A joint inspection is when a state inspector accompanies an OSM inspector at any time during the review of the mine site

Permit Status - Item 14
A Active Coal mining activities occurring or permitted but not yet disturbed. AB Abandoned. All surface and underground coal mining activities have ceased and operator has left the site without completing reclamation as defined in 30 CFR 840.11(g)
IN Inactive (Permanent Program Permit) Phase II completed or Temporary Cessation of Operations (Interim Program Permit): Coal mining completed and reclamation activities initiated. AB1 Bond Forfeiture Bond forfeiture officially in process or completed and reclamation in progress or not yet commenced.
BR Bond Release Reclamation completed and State Regulatory Authority(RA) has released all of the bond (Phase III Release) AB2 Partially Reclaimed Forfeiture Forfeited site where all bonds have been used to reclaim site but site not reclaimed to Program standards.
NA Not Applicable: When site is unpermitted. AB3 Reclaimed Forfeiture: Forfeited site that has been reclaimed to Program standards.

Site Status - Item 15
ND No Disturbance: No coal mining and reclamation operations have been started. MC Mining Complete No mining activity on site, site regraded and awaiting bond release. NS Non-Site Visit: Status of site not determined.
EX Coal Exploration: Coal exploration operations have started and where coal mining operations have not begun. TC Temporary Cessation: The RA has granted cessation of mining pursuant to 30 CFR 816/817 13(b). FP Forfeiture Pending The RA is pursuing actions to revoke the permit, collect the performance bond(s) and/or reclamation of forfeited site is in progress.
AP Active Coal Producing Coal surface mining activities are occurring. P1 Phase I Release: At least Phase I bond release granted for entire permitted area. For Interim permits, partial bond release. FR Forfeited and Reclaimed Forfeiture reclamation completed.
AN Active Non-Producing: Active non-producing facility such as tipple or preparation plant. P2 Phase II Release: At least Phase II bond release for the entire permitted area. FO Abandoned Site Abandoned site that is permitted but there is no bond.
NM No Mining: The Permit Status is active, site is not in Temporary Cessation, no surface coal mining activity, and site not regraded. P3 Phase III Release Reclamation completed and the RA has released all bond. WC Widical: Coal mining and reclamation operations have or are taking place and the activity is not covered by the required permits from the RA.

Facility Type Codes - Item 16
A Surface D. Ancillary (Haulroad, Conveyor, and/or Rails H. Exploration Permits K. Government Financed Construction Exemption
B. Underground E. Refuse and/or Impoundment I. Notice of Intent to Explore L. Remaining site permitted under 30 CFR 785 25
C. Preparation Plant F. Loading Facility and/or Tipple J. Exempt 16 and 2/3
G. Stockpiles

Small Business Regulatory Enforcement Fairness Act (SBREFA)
Your Comments are Important

The Small Business and Agriculture Regulatory Enforcement Ombudsman and 10 Regional Fairness Boards were established to receive comments from small businesses about Federal agency enforcement actions. The Ombudsman will annually evaluate the enforcement activities and rate each agency's responsiveness to small business. If you are a small business (a business with 500 or fewer employees including those of affiliates) and wish to comment on the enforcement or compliance activities of OSM, call 1-888-REG-FAIR (1-888-734-3247)

**U.S. DEPT. OF THE INTERIOR
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Mine Site Evaluation**

Permittee/ Person	PACIFICORP	Permit Number	C0150019	Field Visit Date	8/4/2016	State Program Continuation Page
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28. Performance Standard Categories

Codes: 1=Compliance, 2=Noncompliance, 3=Not Planned, 4=Not Started, 5=Noncompliance Identified Elsewhere, 6=Previously Cited, 7=Permit Defect

<p>A. Administrative</p> <ol style="list-style-type: none"> 1. <input type="checkbox"/> Mining within Valid Permit 2. <input type="checkbox"/> Mining within Bonded Area 3. <input checked="" type="checkbox"/> Terms & Conditions of Permit 4. <input type="checkbox"/> Liability Insurance 5. <input type="checkbox"/> Ownership and Control 6. <input type="checkbox"/> Temporary Cessation 7. <input type="checkbox"/> AML Rec. Fees - Non-Respondent 8. <input type="checkbox"/> AML Rec. Fees - Failure to Pay <p>B. Hydrologic Balance</p> <ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> Drainage Control 2. <input type="checkbox"/> Inspections & Certifications 3. <input checked="" type="checkbox"/> Siltation Structures 4. <input checked="" type="checkbox"/> Discharge Structures 5. <input type="checkbox"/> Diversions 6. <input type="checkbox"/> Effluent Limits 7. <input type="checkbox"/> Ground Water Monitoring 8. <input type="checkbox"/> Surface Water Monitoring 9. <input type="checkbox"/> Drainage - Acid-Toxic Materials 10. <input checked="" type="checkbox"/> Impoundments 11. <input type="checkbox"/> Stream Buffer Zones <p>C. Topsoil & Subsoil</p> <ol style="list-style-type: none"> 1. <input type="checkbox"/> Removal 2. <input type="checkbox"/> Substitute Materials 3. <input type="checkbox"/> Storage and Protection 4. <input type="checkbox"/> Redistribution 	<p>D. Backfilling & Grading</p> <ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> Exposed Openings 2. <input type="checkbox"/> Contemporaneous Reclamation 3. <input type="checkbox"/> Approximate Original Contour 4. <input type="checkbox"/> Highwall Elimination 5. <input type="checkbox"/> Steep Slopes (includes downslope) 6. <input type="checkbox"/> Handling of Acid and Toxic Materials 7. <input type="checkbox"/> Stabilization (rills and gullies) <p>E. Excess Spoil Disposal</p> <ol style="list-style-type: none"> 1. <input type="checkbox"/> Placement 2. <input type="checkbox"/> Drainage Control 3. <input type="checkbox"/> Surface Stabilization 4. <input type="checkbox"/> Inspections & Certifications <p>F. Coal Mine Waste (Refuse Piles/Impoundments)</p> <ol style="list-style-type: none"> 1. <input type="checkbox"/> Drainage Control 2. <input type="checkbox"/> Surface Stabilization 3. <input type="checkbox"/> Placement 4. <input type="checkbox"/> Inspections & Certifications 5. <input type="checkbox"/> Impounding Structures <p>G. Use of Explosives</p> <ol style="list-style-type: none"> 1. <input type="checkbox"/> Blaster Certification 2. <input type="checkbox"/> Distance Prohibitions 3. <input type="checkbox"/> Blast Survey/Schedule 4. <input type="checkbox"/> Warnings & Records 5. <input type="checkbox"/> Control of Adverse Effects 	<p>II. Subsidence Control Plan</p> <p>I. Roads</p> <ol style="list-style-type: none"> 1. <input type="checkbox"/> Road Construction 2. <input type="checkbox"/> Certification 3. <input checked="" type="checkbox"/> Drainage 4. <input checked="" type="checkbox"/> Surfacing and Maintenance 5. <input type="checkbox"/> Reclamation <p>J. Signs & Markers</p> <ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> Signs 2. <input type="checkbox"/> Markers <p>K. Distance Prohibitions</p> <p>L. Revegetation</p> <ol style="list-style-type: none"> 1. <input type="checkbox"/> Vegetative Cover 2. <input type="checkbox"/> Timing <p>M. Postmining Land Use</p> <p>N. Other</p> <p>General Performance Category</p>
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Performance Standard Categories 30 CFR Counterparts

<p>A. Administrative -----</p> <ol style="list-style-type: none"> 1. Valid Permit ----- 773.11 2. Mining within Bonded Area ----- 773.11 3. Terms & Conditions of Permit ----- 773.17 4. Liability Insurance ----- 800.60 5. Ownership and Control ----- 778.13 6. Temporary Cessation ----- 842.11(e) & 816.817.131 7. AML Rec. Fees - Non-Respondent ----- 870.15(b) 8. AML Rec. Fees - Failure to Pay ----- 870.15(a) <p>B. Hydrologic Balance ----- (816/817.41-57)</p> <ol style="list-style-type: none"> 1. Drainage Control ----- 45 2. Inspections & Certifications ----- 49(a)(10) 3. Siltation Structures ----- 46 4. Discharge Structures ----- 47 5. Diversions ----- 43 6. Effluent Limits ----- 42 7. Ground Water Monitoring ----- 41(c) 8. Surface Water Monitoring ----- 41(e) 9. Drainage--Acid - Toxic Materials ----- 41(f) 10. Impoundments ----- 39 11. Stream Buffer Zones ----- 57 <p>C. Topsoil & Subsoil ----- (816/817.22)</p> <ol style="list-style-type: none"> 1. Removal ----- 22(a) 2. Substitute Materials ----- 22(c) 3. Storage and Protection ----- 22(c) 4. Redistribution ----- 22(d) <p>D. Backfilling & Grading ----- 816/817.95-107</p> <ol style="list-style-type: none"> 1. Exposed Openings ----- 816.817.13, 14, 15, & 823.11 & 21 2. Contemporaneous Reclamation ----- 100 3. Approximate Original Contour ----- 102(a)(1) 4. Highwall Elimination ----- 102(a)(2) 5. Steep Slopes (includes downslope) ----- 107 6. Handling of Acid & Toxic Materials ----- 102(c) 7. Stabilization (rills and gullies) ----- 93(b) 	<p>E. Excess Spoil Disposal ----- (816/817.71-74)</p> <ol style="list-style-type: none"> 1. Placement ----- 71(e) 2. Drainage Control ----- 71(f) 3. Surface Stabilization ----- 71(g) 4. Inspections & Certifications ----- 71(b) <p>F. Coal Mine Waste (Refuse Piles/Impoundments) ----- 816/817.91-94</p> <ol style="list-style-type: none"> 1. Drainage Control ----- 83(a) 2. Surface Stabilization ----- 83(b) 3. Placement ----- 83(c) 4. Inspections and Certifications ----- 83(d) 5. Impounding Structures ----- 84 <p>G. Use of Explosives ----- (816/817.61-69)</p> <ol style="list-style-type: none"> 1. Blaster Certification ----- 61(c) 2. Distance Prohibitions ----- 61(d) 3. Blast Survey/Schedule ----- 62-64 4. Warnings & Records ----- 66 & 68 5. Control of Adverse Effects ----- 67 <p>H. Subsidence Control Plan ----- (817.121-122)</p> <p>I. Roads ----- (816/817.150-151)</p> <ol style="list-style-type: none"> 1. Road Construction ----- 150(c) 2. Certification ----- 151(a) 3. Drainage ----- 150(b)-151(d) 4. Surfacing and Maintenance ----- 150(e)-151(d) 5. Reclamation ----- 150(f) <p>J. Signs & Markers ----- 816/817.11</p> <ol style="list-style-type: none"> 1. Signs ----- 11(a),(b),(c) 2. Markers ----- 11(a),(b),(d),(e),(f) <p>K. Distance Prohibitions ----- (761.11)</p> <p>L. Revegetation ----- (816/817.111-116)</p> <ol style="list-style-type: none"> 1. Vegetative Cover ----- 111 & 116 2. Timing ----- 113 <p>M. Postmining Land Use ----- (816/817.133)</p>
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Mine Site Inspection

Mine Name: Cottonwood Wilberg Mine

Permittee: PacifiCorp

Permit ID#: C0150019

Inspection Date: August 4, 2016 8:00 – 2:15 (includes time spent at Des Bee Dove Mine)

Inspection Type: Partial Oversight Inspection

Weather Conditions: Hot (80's and 90's), clear / scattered clouds, dry ground

Participants:

Christine Belka, Office of Surface Mining Reclamation and Enforcement (OSMRE) #182

Priscilla Burton, Utah Division of Oil Gas and Mining (DOGM)

Steve Christensen, DOGM

Ken Fleck, PacifiCorp

Dennis Oakley, PacifiCorp

Lisa Reinhart, DOGM

Chuck Semborski, PacifiCorp

Jeremy Spangler, OSMRE

Keenan Storrar, DOGM

Cottonwood Wilberg is an active, non-producing, underground coal mine located west of Huntington, Utah. Mining operations are completed and the site is awaiting final reclamation. This was a partial oversight inspection as well as a site visit to discuss a potential permit revision replacing the currently-approved reclamation plan for the remaining disturbed area.

The potential reclamation plan revision would include extreme surface roughening of re-graded areas, or “deep pocking,” as the best technology currently available (BTCA) to prevent off-site sedimentation and encourage site stability through enhanced vegetative establishment. The current reclamation plan includes retaining sedimentation ponds for at least two years to ensure the reclaimed area does not contribute additional suspended solids to the watershed. When sedimentation ponds are utilized as the BTCA for sediment control, retaining those ponds for at least two years after reclaiming surrounding areas is a requirement under Utah Rule R645-301-356.300.

The potential reclamation plan would rely upon deep pocks to disperse and retain disturbed area runoff, capturing any suspended sediment on site and encouraging infiltration, seed retention and germination, and overall reclamation success. This deep pocking method has been employed successfully on multiple sites in Utah; however, the potential plan presents difficulties under our regulatory program due to the need to demonstrate that deep pocking is the BTCA (rather than the currently-approved sedimentation pond system). Sedimentation models such as RUSLE do not have an input parameter for deep pocking, and so modeling this reclamation scenario to demonstrate that it is the BTCA is a unique challenge. PacifiCorp has not yet submitted the permit revision formally but has prepared and improved the application package for DOGM and OSMRE review. DOGM and OSMRE currently have concerns pertaining to the demonstrations for watershed modeling (for routing undisturbed drainage from above the disturbed area through the site and showing how much runoff would encounter the pocked area and how it would behave) and other details of the potential plan.

Most structures have already been demolished and removed from the facilities area, but final reclamation earthwork has not yet begun. This delay in reclamation is due to the fact that PacifiCorp is actively pursuing an alternative reclamation plan that staff believe would be more successful than the currently approved plan. A small building and two small shelter structures are still in place in the facilities area.

PacifiCorp apparently intends to use the building as an office during reclamation. The shelter structures are used to store hay which is used as mulch in reclamation. All portals along the upper road bench are backfilled to preclude access to abandoned workings. The road corridor and two large pad areas currently remain in place. Road surfacing materials have been removed. No erosion was noted during our inspection. All disturbed areas would be reclaimed using the deep pocking method under the potential permit revision.

The north and south sedimentation ponds are in place, and disturbed area drainage reports to this two-cell system. Drop structures and culverts route disturbed area drainage to the ponds. The north pond contained a small amount of water but was not discharging; the south pond was dry during our inspection. Undisturbed area drainage is appropriately routed away from the disturbed area. Undisturbed drainage from the watershed above the disturbed area is routed under the disturbed area via culverts. Runoff from the east and west undisturbed areas is routed around the disturbance area via surface diversions. Surface topography, diversions, and culvert structures all indicate they are functioning as designed and routing runoff to appropriate locations.

A Golden Eagle has previously been spotted north of the facilities area. No eagle activity was noted during our inspection.

There are no topsoil stockpiles, explosives storage, coal storage and handling, or coal refuse facilities on site. As such, we did not inspect these elements. Mine identification signs are posted at entrances to the site from public roads.

We inspected the reclaimed Cottonwood conveyor portal area which is adjacent to the Fossil Rock Mine on the southwestern edge of the Cottonwood Wilberg permit area. This slope was reclaimed using the deep-pocking method approximately two years ago. Vegetative growth was impressive for the second growing season in this region. The slope is steep, stable, and well vegetated.

No problems were noted and no enforcement actions were taken as a result of this inspection.

I&E Inspection Photos

Permit: C0150019

Inspection Date: 8/4/2016

Permittee: PACIFICORP



Notes:

Most structures have been removed. Remaining shelters used for hay storage.

Photo ID: 28170

Photographer: SMCBELKA

Date Taken: 8/4/2016

State: UT

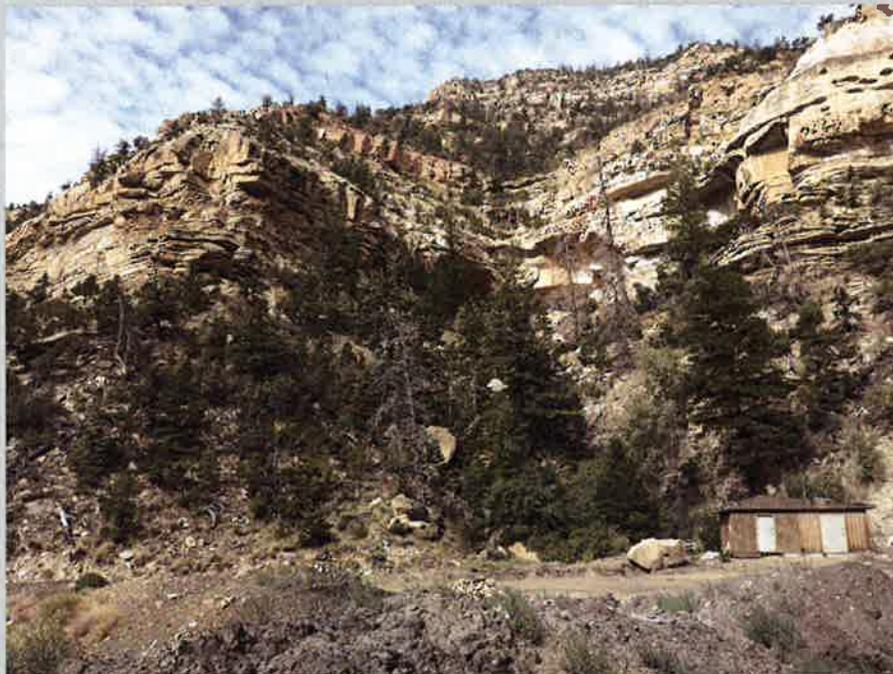
County: EMERY

Latitude: 39.31685889

Longitude: -
111.11728500

Subject: Facilities area

Mine Name: COTTONWOOD/WILBERG



Notes:

PacifiCorp intends to use this building during reclamation activities.

Photo ID: 28171

Photographer: SMCBELKA

Date Taken: 8/4/2016

State: UT

County: EMERY

Latitude: 39.31687917

Longitude: -
111.11719722

Subject: Small building retained to support reclamation

Mine Name: COTTONWOOD/WILBERG

I&E Inspection Photos

Permit: C0150019

Inspection Date: 8/4/2016

Permittee: PACIFICORP



Notes:

Backfill precludes access to underground workings, but does not fulfill final backfilling and grading / approximate original contour requirements for final reclamation.

Photo ID: 28172

Photographer: SMCBELKA

Date Taken: 8/4/2016

State: UT

County: EMERY

Latitude: 39.31719361

Longitude: -
111.11742972

Subject: Backfilled portals

Mine Name: COTTONWOOD/WILBERG



Notes:

Small amount of water present, pond not discharging.

Photo ID: 28173

Photographer: SMCBELKA

Date Taken: 8/4/2016

State: UT

County: EMERY

Latitude: 39.31684750

Longitude: -
111.11712000

Subject: North pond

Mine Name: COTTONWOOD/WILBERG

I&E Inspection Photos

Permit: C0150019

Inspection Date: 8/4/2016

Permittee: PACIFICORP



Notes:

Culverts route disturbed area drainage to the sediment ponds.

Photo ID: 28178

Photographer: SMCBELKA

Date Taken: 8/4/2016

State: UT

County: EMERY

Latitude: 39.31721000

Longitude: -
111.11716611

Subject: Drop structure within disturbed area

Mine Name: COTTONWOOD/WILBERG



Notes:

Deep pocking method employed here. Vegetation is well-established and slopes are stable.

Photo ID: 28186

Photographer: SMCBELKA

Date Taken: 8/4/2016

State: UT

County: EMERY

Latitude: 39.32194444

Longitude: -
111.12138889

Subject: Cottonwood conveyor portal reclamation area

Mine Name: COTTONWOOD/WILBERG