



C/015/018 Incoming

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#5492

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DIV. OF OIL, GAS & MINING

Utah Coal Program  
Utah Division of Oil, Gas, and Mining  
1594 West North Temple, Suite 1210  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

September 13, 2017

**Subj: Clean Copy Submittal to the Amendment to Remove Containerized Plantings from the Deer Creek Rilda Left Fork Facility Reclamation Plan, PacifiCorp, Deer Creek Mine, C/015/0018, Emery County, Utah, Task ID #5492.**

PacifiCorp, by and through its wholly-owned subsidiary, Interwest Mining Company, as mine manager, hereby submits clean copies to the amendment to remove the containerized plantings from the revegetation plan for the Left Fork fan facility in Rilda Canyon. This amendment is recognized by the Division as Task ID #5492. The Division conditionally approved this amendment on August 23, 2017.

Attached with this submittal are two clean copies of Appendix R645-301-500B (Rilda Left Fork Reclamation Plan). C1/C2 form are include for your placement into the MRP.

Please feel free to call me at 435-687-4421 or Dennis Oakley at 435-687-4825 if you have any concerns or comments regarding this submittal.

Sincerely,

Kenneth F. Fleck  
Geology and Environmental Affairs Manager

Enclosures

Cc file



**Any other specific or special instruction required for insertion of this proposal into the Mining and Reclamation Plan.**

**Received by Oil, Gas & Mining**

Form DOGM - C2 (Revised March 12, 2002)

**RECLAMATION-RILDA CANYON SURFACE FACILITIES**

**Final Reclamation**

Final reclamation of the Rilda Canyon Surface Facilities includes removal of the portal liners, portal sealing, removal of the facilities (fan, substation, pumphouse and water tank), removal of the pad and regrading of the pad area, removal of culverts, construction of reclaimed channels, regrading of the access road and reestablishing the Forest Development Trail, redistribution of topsoil and revegetation. Removal of the powerline will be accomplished through Utah Power personnel in accordance with USFS requirements.

**Structure Removal**

Upon completion of mining, the surface facilities structures will be dismantled and removed from the permit area and National Forest lands.

All structural steel, metal siding and other building materials associated with the fan installation, water tank and pumphouse, will be dismantled and salvaged or disposed of outside the permit area at an approved site. Concrete foundations and portal liners will be broken up and backfilled in the portals, used as fill at the bottom of the fill slopes, or hauled off-site to an approved landfill.

**Portal Sealing**

The concrete portal liners associated with the two (2) portals will be demolished and backfilled in the portals, used as fill at the bottom of the fill slopes, or hauled off-site to an approved landfill. The portals will be sealed and backfilled as depicted in Figure 1, page 4 5-3. Backfill material will be obtained from the facility pad.

**Substation and Powerline Removal**

The substation will be dismantled and the structural steel and electrical components will be salvaged. The concrete foundation material will be broken up and backfilled in the portals, used as fill at the bottom of the fill slopes, or hauled off-site to an approved landfill. The powerline will be salvaged and removed from the permit area by others in accordance with the USFS special use permit issued to Utah Power.

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**Pad and Access Road Removal**

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Approximately 11,280 cubic yards of pad material will be used for portal backfill and pad site and access road regrading. The remaining approximately 3,010 cubic yards of material will be hauled 1<sup>st</sup> Right Portal Facility and used as backfill. All materials used for backfilling and grading will be non-toxic, non-acid forming.

The pad area and access road will be regraded as shown on Drawing CE-10853-EM, Packet 4-4A, Sheets 1 through 3. Following backfilling and grading, the surface of the backfilled material will be in an uncompacted, rough condition. If areas develop where the surface is not in such condition,

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the material will be ripped and roughened using track-hoes, dozers and/or had tools to eliminate slippage surfaces and promote root penetration. The areas will then be covered with a 12 inch layer of topsoil. Topsoil material will be redistributed on the regraded areas using backhoes, excavators and dozers. Following redistribution, the topsoil will be sampled and analyzed for fertility and other parameters listed within the Revegetation section of the MRP. Reclaimed areas within the Mountain brush/Salina wildrye community (access road area) will be seeded with the pinyon-juniper seed mixture listed on page 3-3, R645-301-300: Biology. Reclaimed areas within the Aspen/Fir/Dogwood and the Spruce/Fir coniferous forest communities (pad area) will be seeded with the following seed mixture:

<u>Grasses</u>		<u>lbs/acre PLS</u>
Streambank wheatgrass	<u>Agropyron riparium</u> var. Sodar	2
Indian ricegrass	<u>Oryzopsis hymenoides</u> var. Paloma	2
Needle and thread grass	<u>Stipa comata</u>	2
Slender wheatgrass	<u>Agropyron trachycaulum</u>	2
Western wheatgrass	<u>Agropyron smithii</u>	2
Kentucky bluegrass	<u>Poa pratensis</u>	1
Mountain Brome	<u>Bromus carinatus</u>	2
Blue wildrye	<u>Elymus glaucus</u>	1
<u>Forbs</u>		
Louisiana sage	<u>Artemisia ludoviciana</u>	2
Silky lupine	<u>Lupinus sericeus</u>	10
Northern sweetvetch	<u>Hedysarum boreale</u>	.5
Eaton penstemon	<u>Penstemon eatonii</u>	2
Blue aster	<u>Aster glaucodes</u>	.5
<u>Shrubs</u>		
Snowberry	<u>Symphoricarpos oreophilus</u>	1
Saskatoon Serviceberry	<u>Amelanchier alnifolia</u>	.5
Skunkbush Sumac	<u>Rhus trilobata</u>	.5
Total		29

Woody plant density standards for success are 900 and 3,000 woody plants per acre for mountain brush/salina wildrye and aspen/fir/dogwood (including spruce/fir coniferous forest) communities respectively. Final revegetation methods, maintenance, monitoring and sampling as discussed above apply to the Rilda Canyon Left Fork area.

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### Surface Drainage Control

Removal of the undisturbed bypass culverts will occur concurrently with pad and access road removal. The CMP culverts will be removed from the permit area and salvaged. The reclamation channels will be constructed as described in the Surface Runoff Control Plan found in Volume 3, Appendix VII. Silt fence with wire mesh backing will be installed for sediment control down-grade from the reclaimed areas at locations where natural concentration of flows occurs (see Plate 4-1A). Additionally, numerous depressions will be constructed with a track-hoe bucket to create

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a roughened, dimpled surface in the reclaimed areas. The silt fence will be maintained until vegetation is reestablished sufficient to control sediment.

### Maintenance and Monitoring

Reclamation maintenance and monitoring will be conducted as outlined on page 3-7 in Section R645-301-300:Biological.

### **RILDA CANYON EARTHWORK**

Mass Balance Quantities (cu. yds.)

Refer to Drawing CE-10891-EM, Sheets 1 through 3

	Stationing	Cut	Fill	Excess
Facility pad	2+30 to 2+80	698.4	0	698.4
Construction	2+80 to 5+30	0	8934.2	-8934.2
	3+50 to 5+30	3226.2	0	3226.2
Subtotal		3924.6	8934.2	-5009.6
Road	2+80 to 4+74	80.0	0	80.0
Construction	3+03 to 14+26	0	1613.2	-1613.2
	6+93 to 14+26	1262.6	0	1262.6
Subtotal		1342.6	1613.2	-270.6
<b>Total</b>		<b>5267.2</b>	<b>10547.4</b>	<b>-5280.2</b>

Approximately 10,547.4 cu. yds. of material are required for construction of the facility pad and road, Only 5,267.2 cu. yds. will be generated by excavation on-site, leaving a deficit of 5,280.2 cu. yds. However, approximately 3,742.9 cu. yds. of the excavated material is topsoil (see Drawing CE-10866-EM) which will not be used for pad or road construction. Therefore, a total deficit of 9,023.1 cu. yds. exists (5,280.2 + 3,742.9). This material will be purchased for pad and road construction.

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	Stationing	Cut	Fill	Excess
Facility pad Reclamation	2+30 to 5+30	0	7037.2	
Road Reclamation	2+80 to 14+26	0	3946.0	
Portal Backfill	2 ea. (25'x8'x20')		296.3	
<b>Total</b>		<b>0</b>	<b>11279.5</b>	

Material available from pad and road fill	10547.4
Topsoil salvaged during construction	<u>3742.9</u>
Total material available for reclamation	14290.3
Material needed for final reclamation	11279.5
Excess fill to be hauled to 1st Right Portal Facility	3010.8

**RILDA CANYON RECLAMATION COST SUMMARY**

Item	Description	Construction Days	Cost
17A	Binwall	1.1	\$ 2,999.00
17B	Parallel Fans	6.8	\$ 25,623.00
17C	Pumphouse/water Tank	5.1	\$ 15,408.00
17D	Substation	1.1	\$ 2,779.00
17E	Portals	3.0	\$ 5,778.00
17F	Culverts and Riprap	3.0	\$ 9,241.00
17G		3.7	\$ 18,195.00
17H	Revegetation	9.0	\$ 9,095.00
17I	Monitoring and Maintenance	12.0	\$ 12,000.00
17J	Supplemental Stocking	2.0	\$ 1,025.00
<b>Total</b>		<b>47.0</b>	<b>\$ 103,943.00</b>

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<u>Item</u>	<u>Description</u>	<u>Construction Days</u>	<u>Costs</u>
17A	Binwall	1.1	\$ 2,999
17B	Pad and Road	6.8	\$ 25,623
17C	Parallel Fans	5.1	\$ 15,408
17D	Pumphouse/Water Tank	1.1	\$ 2,779
17E	Substation	3.0	\$ 7,578
17F	Portals	3.0	\$ 9,241
17G	Culverts and Riprap	3.7	\$ 18,195
17H	Revegetation	9.0	\$ 9,095
17I	Monitoring and Maintenance	12.0	\$ 12,000
17J	Supplemental Seeding	2.0	\$ 1,025
	Total	47.0	\$ 103,943

Labor rates and equipment costs were obtained from Means Heavy Construction Cost Data, 7th Annual Edition, 1993. Equipment specifications were obtained from Caterpillar Performance Handbook, 23rd Edition, October, 1992.

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