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March 4, 2020

Utah Coal Program
Utah Division of Oil, Gas, and Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
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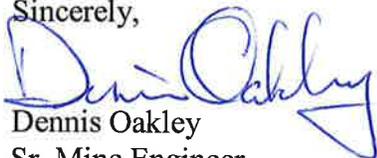
Subj: Clean Copy Submittal to the Cottonwood Mine Reclamation Plan to Include As-Built Conditions for the Truck Turn Around within the Disturbed Area of the TMA Area, Cottonwood/Wilberg Mine, C/015/0019, Emery County, Utah, Task ID #6062

PacifiCorp hereby submits clean copies to the approved amendment for Task ID#6062. Please stamp "INCORPORATED" on the revise pages and return a copy back to PacifiCorp. Attached are the revised sections of the Cottonwood/Wilberg mine permit as follows:

- Volume 2, Part 4: page 26
- Volume 2, Part 4: Appendix I: Site Plan
- Volume 2, Part 4: Attachment A

The C2 form is included for insertion into the Cottonwood/Wilberg MRP. If you have any questions or concerns regarding this amendment, please contact me at 801-220-4632.

Sincerely,



Dennis Oakley
Sr. Mine Engineer

Cc: file

RECEIVED

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DIV OF OIL, GAS & MINING

PacifiCorp
Cottonwood/Wilberg Mine
C/015/0019

Clean Copy Submittal to the Cottonwood Mine Reclamation Plan to Include As-Built Conditions for the Truck Turn Around within the Disturbed Area of the TMA Area, Task ID #6062

Volume 2, Part 4

Replace page 26 (highlighted text)

Cottonwood/Wilberg Mines

Due to the natural dip of the strata, the Trail Mountain Access (TMA) portal in Cottonwood Canyon (final reclamation in November 2014) is the lowest within the existing Cottonwood/Wilberg mine permit area. Groundwater intercepted during the development of the TMA development entries flows to the TMA portal. To prepare for the permanent discharge, PacifiCorp installed a series of three sediment traps located 100 feet apart within the mine to settle out particles prior to discharge. Refer to the as-built drawing of the system in Appendix I. A solid block seal (built to MSHA requirements) was constructed 25 feet in by the portal entrance. A French drain system was installed with 6" perforated PVC pipe behind the seal. A secondary decant pipe was installed at the bottom of the seal along with a backup decant line installed 2 feet from the roof. Each line was fitted with a shut-off valve. Durable drain rock of 2-4 inch sizing was placed over the perforated drain line. Pea sized gravel was placed over the drain rock as a filtering system. The thickness of the filtering system is approximately 4 feet thick.

Mine water is discharged through the seal into a 6 inch buried PVC that parallels the Emery County Road 506 for approximately 200 feet below the portal. The pipe drops into a 36 inch bypass culvert which discharges into the Cottonwood Canyon Creek. Since 2001 the discharge of mine water has averaged approximately 21 gpm. This discharge is considered permanent for post-mining land use. PacifiCorp currently possesses a UPDES permit (#UT0022896-001) for this site and monitors the quality and quantity on a monthly basis at the inlet of the 36" bypass culvert. At reclamation, Emery County Road Department requested that the 6 inch buried PVC line be left in place to keep ice from potentially building up in a road ditch in the winter and pushing ice onto the road. In a letter dated February 2015, Emery County Road Department committed to maintaining the line within their right of way. See Appendix I to review the letter from Emery County and the updated design drawing from 2001.

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In 2019, Emery County requested that an area in the TMA disturbed area be used as a snow plow turn-around. As the County is responsible for plowing the Cottonwood Canyon road, there is no safe place for their plows to turn around. PacifiCorp granted the County an easement to utilize this area. The approved easement is found in Appendix I. Also included in Appendix I is the as-built plan for this area. The area has been graveled and includes an 18" culvert, which parallels the county road, as a permanent reclamation feature.

PacifiCorp
Cottonwood/Wilberg Mine
C/015/0019

Clean Copy Submittal to the Cottonwood Mine Reclamation Plan to Include As-Built Conditions for the Truck Turn Around within the Disturbed Area of the TMA Area, Task ID #6062

Volume 2, Part 4, Appendix I

Replace Site Plan (two pages: highlighted text)

PacifiCorp

Cottonwood/Wilberg Mine

C/015/0019

Appendix I

**Plan for Truck Turnaround at the Trail Mountain Access
Reclamation Site (completed 12/2019)**

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Site Plan:

Emery County proposes to construct a snow plow truck turn around within the disturbed area of the 1.86 acre site of the Trail Mountain Access area. The County claims that their trucks cannot safely turn around at the end of the county road #506. The county expressed their concerns with PacifiCorp about acquiring an easement within the company's reclamation site. PacifiCorp agreed with the county and issued them an easement to allow them to construct the turnaround.

Within the easement, approximately 0.04 acres will be impacted by the turnaround. A 70 foot 18" CMP will be installed which will keep the truck from impacting any drainage from above the site. Refer to the hydrological calculations for contributing runoff and culvert sizing.

A large boulder on the east side of the easement will be removed and disposed of. The surface of the turnaround will be covered with 6" of untreated base course. The base course will be graded to allow for runoff and compacted to the specifications of the Emery County Road Department. The turnaround and all its appurtenances will be a permanent feature of the reclamation site.

Note: This work was completed in December 2019.

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C/015/0019

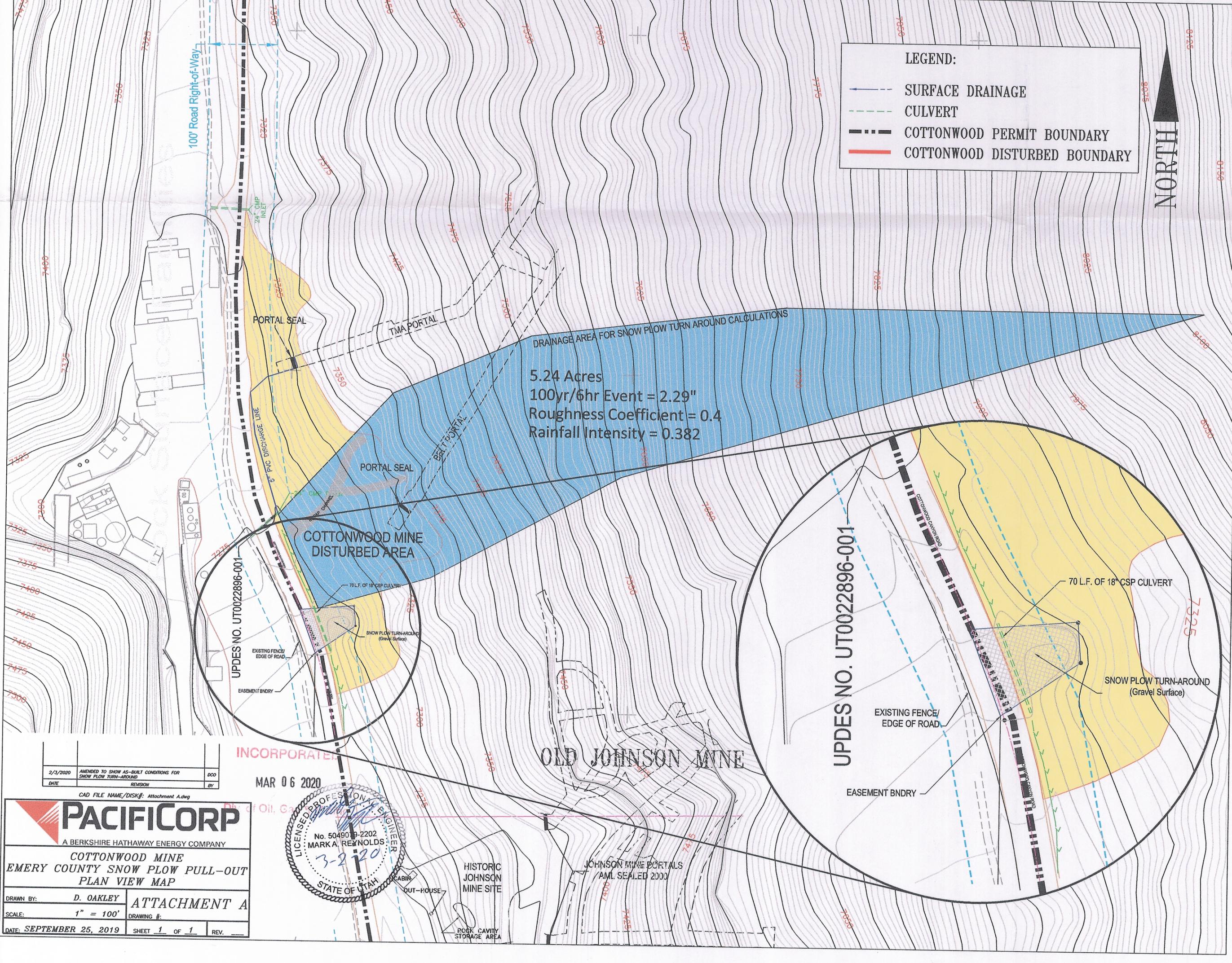
Clean Copy Submittal to the Cottonwood Mine Reclamation Plan to Include As-Built Conditions for the Truck Turn Around within the Disturbed Area of the TMA Area, Task ID #6062

Volume 2, Part 4, Appendix I

Replace Attachment A

LEGEND:

-  SURFACE DRAINAGE
-  CULVERT
-  COTTONWOOD PERMIT BOUNDARY
-  COTTONWOOD DISTURBED BOUNDARY



DATE	REVISION	BY
2/3/2020	AMENDED TO SHOW AS-BUILT CONDITIONS FOR SNOW PLOW TURN-AROUND	DCO

CAD FILE NAME/DISK#: Attachment A.dwg

PACIFICORP
A BERKSHIRE HATHAWAY ENERGY COMPANY

COTTONWOOD MINE
EMERY COUNTY SNOW PLOW PULL-OUT
PLAN VIEW MAP

DRAWN BY: **D. OAKLEY** **ATTACHMENT A**

SCALE: **1" = 100'** DRAWING #:

DATE: **SEPTEMBER 25, 2019** SHEET **1** OF **1** REV.



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OLD JOHNSON MINE

HISTORIC JOHNSON MINE SITE

JOHNSON MINE PORTALS AML SEALED 2000

ROCK CAVITY STORAGE AREA

CABIN OUT-HOUSE

UPDES NO. UT0022896-001

70 L.F. OF 18" CSP CULVERT

SNOW PLOW TURN-AROUND (Gravel Surface)

EXISTING FENCE/ EDGE OF ROAD

EASEMENT BNDRY

PORTAL SEAL

TMA PORTAL

PORTAL SEAL

COTTONWOOD MINE DISTURBED AREA

70 L.F. OF 18" CSP CULVERT

SNOW PLOW TURN-AROUND (Gravel Surface)

EXISTING FENCE/ EDGE OF ROAD

EASEMENT BNDRY

DRAINAGE AREA FOR SNOW PLOW TURN AROUND CALCULATIONS

5.24 Acres
100yr/6hr Event = 2.29"
Roughness Coefficient = 0.4
Rainfall Intensity = 0.382

UPDES NO. UT0022896-001

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