

October 18, 2018

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

Dear Program Supervisor:

Enclosed are the 2018, 3rd quarter (quarterly) inspection reports for the Fossil Rock Mine and the Fossil Rock Waste Rock Site.

If you have any questions or need additional information, please contact Bryant Bunnell at (435) 286-4490.

Sincerely,
CANYON FUEL COMPANY
Fossil Rock Mine



Bryant Bunnell
Environmental Engineer

Encl.

cc: DOGM Correspondence File

State of Utah

DEPARTMENT OF NATURAL RESOURCES

Division of Oil, Gas & Mining

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801

Telephone (801) 538-5340 facsimile (801) 359-3940 TTY (801) 538-7458

www.ogm.utah.gov



Quarterly Inspection Form - Refuse Disposal Areas

(please provide to DOGM promptly after inspection is complete)

Permit Number : C/015/009 Inspection Date : 9/27/2018
Mine Name : Fossil Rock Mine Quarter / Year : 3rd/ 2018
Mine Operator (Permittee) : Fossil Rock Resources, LLC Inspector Name : Bryant Bunnell
MSHA ID # : UT09-01211-14 Inspector Signature : 
Facility Name / Location / Address : Fossil Rock Waste Rock site

1. Describe any changes in the geometry of the structure (as well as instrumentation, if any, used to monitor changes):
No major changes in the geometry of the structure during this quarter.

It's estimated that ~ 121,000 cy of material has been removed. It's estimated that there is ~ 316,000 cy remaining.

2. Lift Height / Thickness Avg NA Maximum NA # _____ Elevation of Active Benches : NA

3. Vertical Angle of Outslope(s) / Location(s) where measured 2.57H:1V South slope / _____ / _____

4. Total storage capacity: 784,000 cy Remaining storage capacity 501,760 cy Volume placed during year : 0

5. Describe foundation preparation (including removal of vegetation, stumps, topsoil, and all other organic material) :
Foundation was prepared according to the approved plan.

6. Describe placement and compaction of fill materials (including an explanation of how compaction is confirmed) :
NA

7. Is there any evidence of fires or burning on the structure ? (If YES, specify extent, location, and abatement/extinguishment of such fires) :
No

8. Describe placement of under drains, protective filter systems, and final surface drainage systems (report any seepage, including location, color, flow) :
NA

9. Describe any appearances of instability, structural weakness, or other hazardous conditions :
None

10. Please provide any other information pertaining to the stability of the structure (attach any photos taken during the inspection)

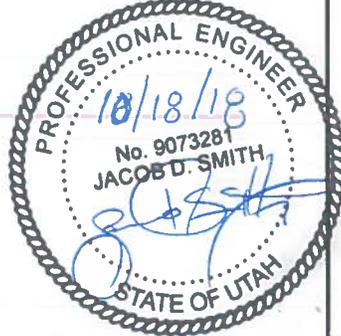
| | | | |
|--|---|--|-----------|
| Are there cracks or scarps in crest ? | YES <input type="checkbox"/> | NO <input type="checkbox"/> | <u>NA</u> |
| Is there any detectable sloughing or bulging ? | YES <input type="checkbox"/> | NO <input checked="" type="checkbox"/> | |
| Do slope erosion problems exist ? | YES <input type="checkbox"/> | NO <input checked="" type="checkbox"/> | |
| Cracks or scarps in slope ? | YES <input type="checkbox"/> | NO <input checked="" type="checkbox"/> | |
| Surface movements? (valley bottom, hillsides) | YES <input type="checkbox"/> | NO <input checked="" type="checkbox"/> | |
| Erosion of Toe ? | YES <input type="checkbox"/> | NO <input checked="" type="checkbox"/> | |
| Water impounded by structure ? | YES <input type="checkbox"/> | NO <input checked="" type="checkbox"/> | |
| Are diversion ditches stable? | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> | |
| Is drainage positive ? | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> | |
| Could failure of structure create an impoundment (provide description) ? | | | |

Are design standards established within the mining and reclamation plan for the disposal facility being met ?
To the best of our knowledge.

Proctor Determination : NA

I hereby certify that: I am experienced in the construction of earth and rock fills. I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with structure; that the fill structure has been maintained in accordance with the approved design and meets or exceeds the minimum design requirements under all applicable federal, state, and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

(place P.E. certification below)



**Fossil Rock Resources, LLC - Fossil Rock Mine
Sediment Pond Quarterly Inspection Report**

Inspector: Bryant Bunnell

Date: 9/27/2018

Action Required?

1. Dam Structural Weakness

A. Cracks or scarps on crest

| | | | |
|-----|--|----|---|
| Yes | | No | X |
|-----|--|----|---|

None Observed

B. Cracks or scarps on slope

| | | | |
|-----|--|----|---|
| Yes | | No | X |
|-----|--|----|---|

None Observed

C. Sloughing or bulding on slope

| | | | |
|-----|--|----|---|
| Yes | | No | X |
|-----|--|----|---|

None Observed

2. Major Erosion

| | | | |
|-----|--|----|---|
| Yes | | No | X |
|-----|--|----|---|

None Observed

3. Surface Movements of Surrounding Slopes

| | | | |
|-----|--|----|---|
| Yes | | No | X |
|-----|--|----|---|

None Observed

4. Visible Sumps or Sinkholes in Slurry Surface

| | | | |
|-----|--|----|---|
| Yes | | No | X |
|-----|--|----|---|

None Observed

5. Clogging

A. Spillway Channels and Pipes

| | | | |
|-----|--|----|---|
| Yes | | No | X |
|-----|--|----|---|

None Observed

B. Decant System

| | | | |
|-----|--|----|---|
| Yes | | No | X |
|-----|--|----|---|

None Observed

C. Diversion Ditches

| | | | |
|-----|--|----|---|
| Yes | | No | X |
|-----|--|----|---|

None Observed



09 27 2018

Fossil Rock Resources, LLC - Fossil Rock Waste Rock Site

Sediment Pond Quarterly Inspection Report

Inspector: Bryant Bunnell

Date: 9/27/2018

Action Required?

1. Dam Structural Weakness

A. Cracks or scarps on crest

| | | | |
|-----|--|----|---|
| Yes | | No | X |
|-----|--|----|---|

None Observed

B. Cracks or scarps on slope

| | | | |
|-----|--|----|---|
| Yes | | No | X |
|-----|--|----|---|

None Observed

C. Sloughing or bulding on slope

| | | | |
|-----|--|----|---|
| Yes | | No | X |
|-----|--|----|---|

None Observed

2. Major Erosion

| | | | |
|-----|--|----|---|
| Yes | | No | X |
|-----|--|----|---|

None Observed

3. Surface Movements of Surrounding Slopes

| | | | |
|-----|--|----|---|
| Yes | | No | X |
|-----|--|----|---|

None Observed

4. Visible Sumps or Sinkholes in Slurry Surface

| | | | |
|-----|--|----|---|
| Yes | | No | X |
|-----|--|----|---|

None Observed

5. Clogging

A. Spillway Channels and Pipes

| | | | |
|-----|--|----|---|
| Yes | | No | X |
|-----|--|----|---|

None Observed

B. Decant System

| | | | |
|-----|--|----|---|
| Yes | | No | X |
|-----|--|----|---|

None Observed

C. Diversion Ditches

| | | | |
|-----|--|----|---|
| Yes | | No | X |
|-----|--|----|---|

None Observed



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