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Southern Utah Fuel Company

a subsidiary of The Coastal Corporation

P.O. Box P • Salina, Utah 84654 • (801) 529-7428

Mine: (801) 637-4880

041/002 #6

Daren Haddock - route
to mine file.

October 11, 1990

Lowell Braxton
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Dear Mr. Braxton:

Enclosed are annual certification reports for Southern Utah Fuel Company's Minesite Sedimentation Pond, Waste Rock Disposal Site and the associated Waste Rock Sedimentation Pond.

Please include these certifications with SUFCo's Annual Report which was submitted earlier.

Sincerely,
SOUTHERN UTAH FUEL COMPANY

Wesley K. Sorensen, P.E.
Chief Engineer

WKS:jad#118

RECEIVED
OCT 15 1990

11-15-90
11:15 AM

ANNUAL WASTE ROCK DISPOSAL SITE
CERTIFICATION -- 1990

An inspection of Southern Utah Fuel Company's Waste Rock Disposal Site was made by Wesley K. Sorensen, P. E. on October 4, 1990.

The first lift of the waste rock disposal site has been brought up to final grade with compacted lifts of underground development material. A soil layer has been placed over the waste rock. This layer of soil is 36-40 inches in thickness. The topsoil stockpiled on the east boundary was distributed over the pile. The designed terrace has been placed on the south face. Drainage is routed to Ditch No. 2.

The second lift is under construction. The active area pad has approximate dimensions of 75 ft x 165 ft. Underground development waste is end dumped from 10 wheel dump trucks in piles 3.5 ft high. These piles are leveled with a D-8 Cat dozer. The resulting lift thickness is 18-24 inches. The dozer and trucks are used to compact the lifts.

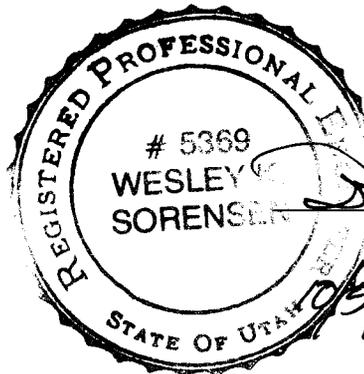
All final and intermediate construction slopes were less than the design 1v:2h which corresponds to a slope of 26°33'. Slopes are constructed such that water cannot pond against the toe. Steepening of the slope was evident on the active pad area where the MSHA required berm was in place.

No fires have occurred and none were observed during the inspection.

No significant erosion was observed.

A copy of the field notes are attached.

I certify that the above description accurately represents the conditions observed at the Waste Rock Disposal Site during my inspection on October 4, 1990.



Wesley K. Sorensen, P.E.
Registration No. 5369
State of Utah

WKS:jad#112

SOUTHERN UTAH FUEL COMPANY

Coal Refuse Piles ^{Annual} ~~Quarterly~~ Inspection Report

Inspector Wesley K Sorensen ^{PE} Title Chief Engineer

Date 4 OCT 90 Permit # Act/041/002

clear/sunny

1. Foundation Preparation (vegetation, topsoil removal?) Yes No

2. Lift Thickness (inches) 18-24"

3. Compaction (4 to 6 complete passes) Yes No

4. Burning (specify extent and location) Yes No

5. Angle of Slope (degrees) _____

6. Seepage (specify location, color, & appr. volume) Yes No

None

7. Cracks or Scarps (location, size) Yes No

None

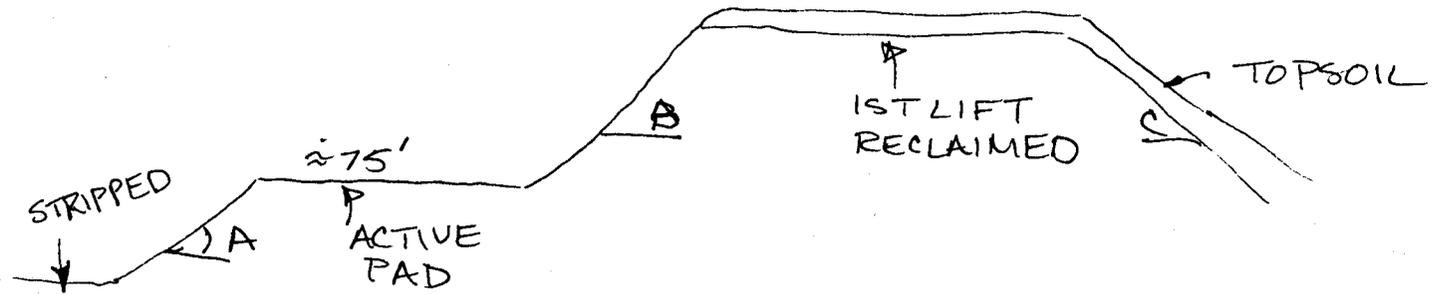
8. Major Erosion Problems (location and extent) Yes No

9. Water Impounding Against Toe Yes No

10. Other Comments Active Pad = 75' x 165'

Development waste end dumped from 10 wheeler in 3.5ft high piles. Piles are leveled out with DB cat. Estimate lift thickness 18-24". Cat & truck used for compaction

NOTE: 1ST LIFT IS IN PLACE. TOPSOIL & SOIL PLACED OVER LIFT (36-40"). TERRACE INSTALLED ON FACE OF SOUTH SLOPE AS DESIGNED WITH DRAINAGE GOING INTO SOUTH COLLECTION DITCH THEN TO SEDIMENT POND.



<u>A</u>	<u>B</u>
17° 30' North	20° 45' South
19° 30' center	20° 45' center
21° 15' South	18° 15' North
20° South	
Above Terrace	
Below terrace	
23° 45' South	
Below terrace	
@ edge	

<u>A</u>
18° EAST, SOUTH FACE
20° CENTER; SOUTH FACE
21° WEST, SOUTH FACE
15° 30' SOUTH, WEST FACE
21° CENTER; WEST FACE
23° NORTH; WEST FACE

ANNUAL MINESITE SEDIMENTATION POND
CERTIFICATION -- 1990

An inspection of Southern Utah Fuel Company's Minesite Sediment Pond was conducted by Wesley K. Sorensen, P.E. on October 4, 1990.

No signs of structural weakness of the dam or surrounding slopes were observed.

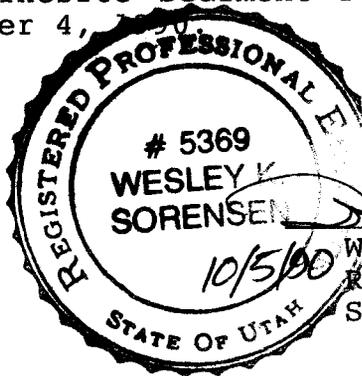
The diversion ditch down the access road has minor erosion alongside of the riprap; 6-8" maximum depth. A concrete antiseep buttress has been installed in the emergency spillway as designed.

No water was entering the pond. An intermittent drip was observed coming from the decant pipe discharge. This flow disappeared within two feet into the spillway riprap.

The water level in the pond was at 7415.40 feet which is 1.6 feet below the standpipe spillway elevation. An additional 0.536 acre ft of storage volume is available in the pond. The sediment level in the pond was at 7409.50 feet which corresponds to a sediment volume of 0.453 acre-ft based on a level sediment surface and as built pond volume. This is 68% of the maximum sediment volume. The pond needs to be decanted to check the actual sediment surface.

A copy of the field notes are attached.

I certify that the above description accurately represents the condition of the Minesite Sediment Pond as observed during my inspection on October 4,



Wesley K. Sorensen, P.E.
Registration No. 5369
State of Utah

WKS:jad #113

SOUTHERN UTAH FUEL COMPANY

Minesite Sediment Pond ^{Annual} ~~Quarterly~~ Inspection Report

Inspector Wesley K. Sorensen P.E. Date 4 OCT 90

Sunny & clear

1. Dam Structural Weakness

A. Cracks or scarps on crest None

B. Cracks or scarps on slope None

C. Sloughing or bulging on slope None

Minor grade in slope change about 2/3 of height - made during construction.

2. Major Erosion Problems See comment on diversion ditch.

Minor erosion on fill face slope.

3. Surface Movements of Surrounding Slopes None

4. Visible Sumps or Sinkholes in Slurry Surface None

5. Clogging

A. Spillway channels and pipes None

Note: No flow in East Spring Canyon bypass.
No flow into pond

B. Decant system Functional. Minor intermittent drip from end of decant/principal spillway pipe.

C. Diversion ditches Some erosion of ditch around riprap on diversion down road to sediment pond. (6-8" max depth)

6. Seepage (Specify Location, Color and Approximate Volume) _____

Intermittent drip from decant valve & pipe
clear in color. Disappears in spillway with 2ft.

7. Other Comments New anti-seep buttress installed

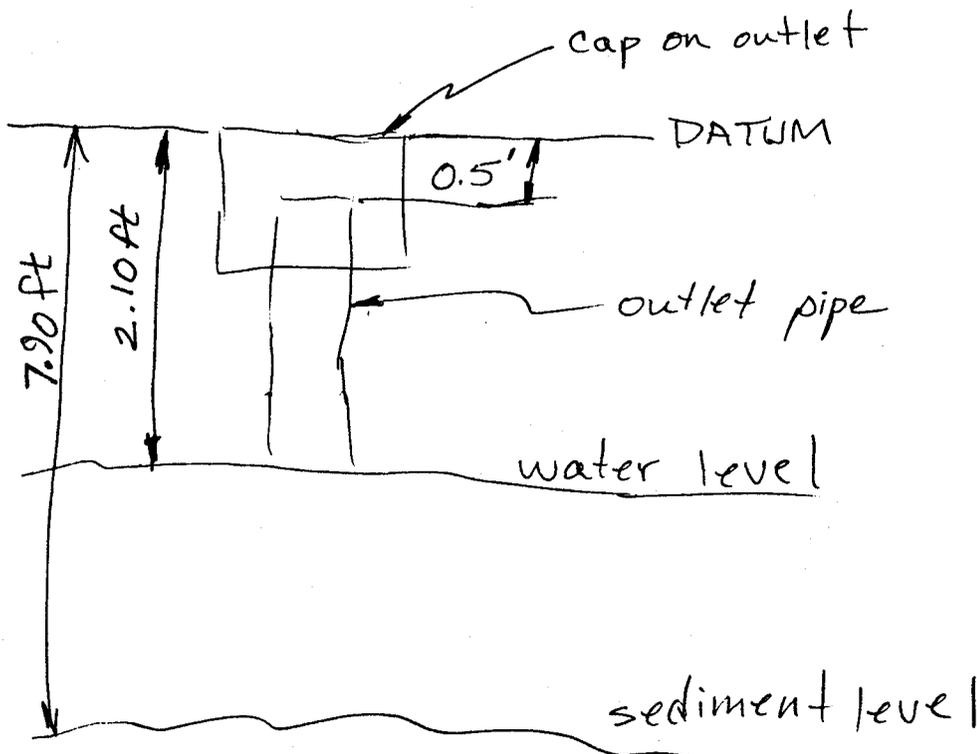
in emergency spillway. Width 2'-0".

Some sediment stored on NW end of pond.

Water level in pond

Sediment level in pond.

Inlet delta (sediment) has been cleaned
since last year. Sediment stored on NW end.



ANNUAL WASTE ROCK SEDIMENTATION POND
CERTIFICATION -- 1990

An inspection of Southern Utah Fuel Company's Waste Rock Sediment Pond and associated Decant Impoundment was made on October 4, 1990 by Wesley K. Sorensen, P.E.

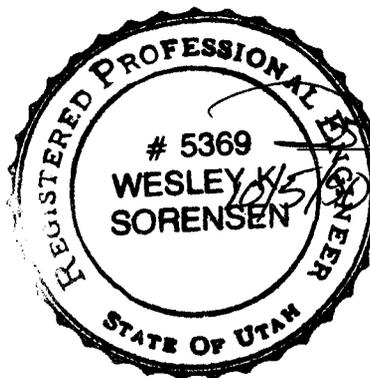
No signs of structural weakness of the sediment pond dam or decant impoundment dam were observed.

The diversion ditches, spillways and decant device are in as-constructed condition and are functional. A small buildup of sediment has occurred in both Ditch No. 1 and Ditch No. 2. These ditches route water to the sedimentation pond. The sediment is deposited at the end of the concrete-lined ditch where the riprap section down the in-slope of the pond begins.

Sediment depth in the sediment pond is about 0.1 ft. At the time of the inspection there was a puddle of water 0.1-0.2 ft deep covering a 15 ft x 20 ft area in the northeast corner of the sediment pond. No sediment or water was observed in the decant impoundment.

A copy of the field notes of the inspection are attached.

I certify that the above description accurately represents the condition of the Waste Rock Sedimentation Pond and Decant Impoundment observed during the inspection.



Wesley K. Sorensen, P.E.
Registration No. 5369
State of Utah

WKS:jad#114

SOUTHERN UTAH FUEL COMPANY

Annual
Rock Waste Sediment Pond Quarterly Inspection Report

Inspector Wesley K. Sorensen P.E. Date 4 OCT 90
clear/sunny

1. Dam Structural Weakness

A. Cracks or scarps on crest None Good vegetative growth.

B. Cracks or scarps on slope None. Good vegetative growth.

C. Sloughing or bulging on slope None.

2. Major Erosion Problems None

3. Surface Movements of Surrounding Slopes None

4. Visible Sumps or Sinkholes in Slurry Surface None
≈ 0.1-0.2 ft water in NE corner ≈ 15'x20' total surface area. Sediment depth ≈ 0.1 ft

5. Clogging

A. Spillway channels and pipes None. At ~~design~~ certified configuration from construction.

B. Decant system Functional

C. Diversion ditches OKay. Minor sediment build up in South diversion where transition from concrete to riprap at pond entrance (≈ 0.5'). Same observed on west diversion to pond. (≈ 0.4')

6. Seepage (Specify Location, Color and Approximate Volume) _____

None

7. Other Comments Downstream decant impound.
No water, No sediment, No cracks, No
scarps, sloughage, bulges or other signs
of failure. Good vegetative growth inside
slopes & bottom and on out slopes. Sparse growth
on crest of dam. Spillway & channels at
design configuration