

File ACT/007/007  
# 3, 7, 15 w/map



KAISER STEEL CORPORATION  
SUNNYSIDE COAL MINES  
SUNNYSIDE, UTAH 84539  
TELEPHONE 801-888-4421

April 22, 1985

RECEIVED

D. Wayne Hedberg  
Division of Oil, Gas & Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

APR 24 1985

DIVISION OF OIL  
GAS & MINING

RE: Plans for NOV N85-4-4-2, #1

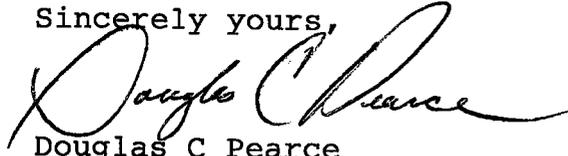
Dear Mr. Hedberg:

The changes proposed by the Divisions staff as expressed in your letter of April 9, 1985 are acceptable to Kaiser Coal Corporation. Proposed mitigation plans are summerized as follows:

1. Water traveling towards the bridge will be treated under the bridge for suspended sediments with a silt fence. Water from the parking lot will be prevented from flowing toward the bridge with a 6 inch berm (the height of the tracks). Approximately 900 square feet of surface will drain toward the bridge.
2. Water which was running under the metal plate will be stopped by sealing the hole with cement.
3. Drainage from the underpass culvert will be treated on a temporary basis with a fabric filter over the outlet. Permanent mitigation will be to change the culvert discharge point such that drainage is conveyed to the the sediment pond as per Plate III-12. This will be done after spring thaw.
4. Water from the parking lot will treated in the sediment pond for sediments, oil and grease by extending the existing berm and ditch on the west side of the parking lot, to a point past the propane tank and approximately adjacent to the training building. At this point a hole will be cut in the cement wall to allow drainage to the sidewalk.

Plate III-12 has been revised to show drainage as explained above. If you have any questions, please call.

Sincerely yours,

A handwritten signature in cursive script that reads "Douglas C Pearce". The signature is written in black ink and is positioned above the typed name.

Douglas C Pearce  
Mine Engineer

Enclosure



KAISER COAL CORPORATION  
Sunnyside Coal Mines  
P.O. Box D  
Sunnyside, Utah 84539  
Telephone (801) 888-4421

File ACT/007/007  
#3,7 & 15 w/maps  
(1 set to OSM)  
(1 set with review copy to be filed later)

May 17, 1985

D. Wayne Hedberg  
Division of Oil, Gas & Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

RECEIVED

MAY 20 1985

DIVISION OF OIL  
GAS & MINING

RE: Abatement plans for NOV N85-4-10-1  
Unpermitted Ancillary Road  
Sunnyside Mines, ACT/007/007

Dear Mr. Hedberg:

In our letter of April 11, 1985 we defined those portion of the unpermitted ancillary road that is used by the general public. The road, starting at State Highway 123 within East Carbon City limits, is used by local farmers, public utilities, the railroad and a cable television company as access to their respective interests. The other end of the road, east of the railroad, which is not used for the above purposes with the exception of railroad access is within the Permit Area and covered by bond (see Plate III-23 4 of 4 and Plate III-1 3 of 3 of the Sunnyside Permit).

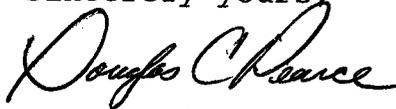
To permit the road, we are resubmitting Table III-2, III-3 and Plate III-1 3 of 3 which define the location, width, length, average grade and maximum grade of the road. The following items are listed to address the requirements of UMC 817.170 - 817.176.

- Use of the road (Railroad Access Road) during the mine life, is to provide access to a D&RGW storage shed outside the permit boundary.
- The road is located on a ridge top, does not cross a stream channel and is not in a wet, steep or unstable area.
- Field methods were used in the design and construction of the road.
- Construction of the road was pre-law. Topsoil was not saved as a result. Borrow material will be used during reclamation (see Section 3.5).

- The road does not cross flowing streams or ephemeral channels. Culverts and ditches are not need along the road.
- Surfacing for the road is of local soil materials which are adequate for the frequency of expected use. Use is expected to less than once a month. Acid-or toxic materials were not used in road surfacing.
- Vegetation was cleared for no more than the width of the road.
- The road is maintained as needed by blading to ensure minimization of erosion for the life of the road.
- Reclamation efforts as defined in Section 3.5 exceed standards set in UMC 817.176 and meet standards set in UMC 817.156.

Two copies of the tables and plates are included for your inspection. Please call if addition information is needed.

Sincerely yours,



Douglas C Pearce  
Mine Engineer

Table III-2 Roads Within The Permit Area

- R-1 Refuse Road. The road is used as a haul road for waste rock from the coarse refuse bin to the coarse refuse disposal area and as access to the Water Canyon Road.
- R-2 Water Canyon Road. The road is used as an access road for the No. 2 Mine fan associated outcrop portals.
- R-3 No. 2 Canyon Road. The road is used as an access for the No. 3 Mine fan.
- R-4 Fan Canyon Road. The road is used as an access road to the No. 1 Mine fan.
- R-5 Slaughter Canyon Road. The road is used as an access for the Slaughter Canyon portal. This road was reclaimed in 1982.
- R-6 Pole Canyon Road. The road is used as an access for the Pole Canyon exhaust shaft.
- R-7 Manshaft Road. The road is used as an access for the upper bathhouse and manshaft.
- Twin Shafts Fan Road. The road is used as an access for the Twin Shafts fan. (Total length for both roads is 0.7 miles.)
- R-8 Reservoir Road. The road is used as an access for the Whitmore Canyon Dam and as an access for private lands above the dam.
- R-9 Railroad Access Road. The road is used for access to the railroad storage shed outside the permit area.
- R-10 Complex Roads. The roads are used as an access around the mine offices, shop, bathhouse, and preparation plant.

Table III-3 Specification for Roads in the Permit Area

A. <u>Constructed of Dirt By Grading</u>	<u>Length</u>	<u>Ave. Grade</u>	<u>Max. Grade</u>	<u>Ave. Width</u>
R-2	2.2 mi.	4.0%	33.0%	22'
R-4	1.5	13.0	16.0	20
R-6	0.7	6.0	20.0	18
R-7	0.7	6.0	18.0	24
R-8	1.6	7.0	16.0	20
R-9	0.2	2.5	4.5	25
B. <u>Constructed Using Local Fill As Base and 6" of Coarse Refuse for Surface</u>				
R-1	2.5 mi.	4.0%	8.0%	30
R-3	1.7	5.0	20.0	27
R-5	0.8	13.0	26.0	21
R-7	0.7	6.0	18.0	24
R-10	2.2	3.0	6.0	26

**KAISER  
COAL**

**KAISER COAL CORPORATION**  
Sunnyside Coal Mines  
P.O. Box D  
Sunnyside, Utah 84539  
Telephone (801) 888-4421

ACT/007/0016

**RECEIVED**

**AUG 13 1985**

**DIVISION OF OIL  
GAS & MINING**

August 8, 1985

D. Wayne Hedberg  
Division of Oil, Gas & Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

RE: Transmittal of Plans

NOV#N85-4-17-3, # 2 of 3

Dear Mr. Hedberg:

Please find enclosed ten copies of Drawings D5-0112 and ten copies of plans for the coarse refuse toe pond outlet protection as requested in your letters of August 5, 1985. The copies of the letter should be placed in Appendix III-1 of the MRP.

Sincerely yours,



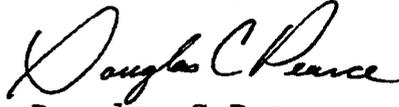
Douglas C Pearce  
Mine Engineer



III-35 will be used in place of the wire mesh anchored rip rap. The liner will extend from the spillway to the wash bottom. Width of the liner will be five feet. Extension down the wash is not possible because the wash enters a culvert under the railroad embankment.

Please call if you have questions or need additional information.

Sincerely yours,

A handwritten signature in cursive script that reads "Douglas C Pearce". The signature is written in black ink and is positioned above the typed name.

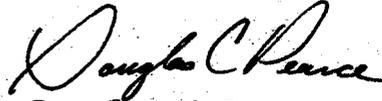
Douglas C Pearce  
Mine Engineer



III-35 will be used in place of the wire mesh anchored rip rap. The liner will extend from the spillway to the wash bottom. Width of the liner will be five feet. Extention down the wash is not possible because the wash enters a culvert under the railroad embankment.

Please call if you have questions or need additional information.

Sincerely yours,

A handwritten signature in cursive script that reads "Douglas C Pearce". The signature is written in dark ink and is positioned above the typed name.

Douglas C Pearce  
Mine Engineer

**KAISER  
COAL**

**KAISER COAL CORPORATION**  
Sunnyside Coal Mines  
P.O. Box D  
Sunnyside, Utah 84539  
Telephone (801) 888-4421

May 21, 1985

**RECEIVED**

MAY 23 1985

John Whitehead  
Division of Oil, Gas & Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

DIVISION OF OIL  
GAS & MINING

RE: Course Refuse Pile Slide  
Sunnyside Mines, ACT/007/007

Dear Mr. Whitehead:

This letter is in response to the questions raised in your letter of April 23, 1985. Each item will be answered using the numbering system in your letter. A letter from Mr. Daniel R. Hadley, P.E., the Manager of Design and Construction for Kaiser Coal Corporation is attached to answer the questions under item number two. Revised copies of the drawing previously submitted are also attached. Current status of the slide and seep is that the slide is stable and not expanding, and the seep is flowing at 0.5 c.f.s..

1. "determination of water origin"

The following observations were made in the origin of water at the coarse refuse seep:

- In March, 1983 ten pounds of fluorescent green tracing dye was introduced into the East Slurry Cell. The seep at the base of the Coarse Refuse Pile was monitored for two months. No signs of the dye were observed.
- In May, 1983 the use of the East Slurry Cell was discontinued. Water flow at the Coarse Refuse Toe was visibly reduced but did not stop. The period of non-use was from May, 1983 to October 1984. Water flow did not appreciably change over that period of time.
- When the East Slurry Cell was used again in October, the water flow at the seep increase. During January and February 1985 flows were greater than normal causing the slide at

File ACT/007/007  
Copy to FAM

the Coarse Refuse Toe.

- o Use of the East Slurry Cell was discontinued after the second week of April, 1985. Water flows decreased from 1.5 c.f.s. to less than 0.5 c.f.s. over a three week period.

From these observations it can be concluded that the East Slurry Cell contributes to the seep flow when in use. Increased flows above observed rates at the seep during use of the East Slurry Cell also indicate that the water flow path has become less restricted over the observation period. The remainder of the water comes from alluvial sources associated with Grassytrail Creek.

2. "the French drain proposal"

See the attached letter from Daniel R. Hadley.

3. "if the french drains don't work, what else could be done?"

Drainage pipes could be driven into the pile forming a drain. This is not a preferable alternative because of saturated ground conditions at the base of the wash.

4. "is there a potential for a massive failure?"

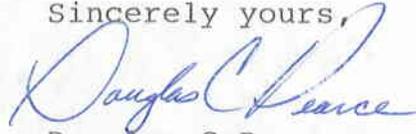
According to the March 23, 1984 report by Rollins, Brown and Gunnell "there is essentially no opportunity for the refuse material to become completely saturated, it is our opinion that a cohesion of 200 pounds per square foot is a reasonable value". On that finding, a safety factor of 2.31 was obtained. If the refuse material is subdrained there is no potential for a massive failure. It should be noted that the limited failure that occurred was not in refuse material but in soils blocking the exit of water from the toe of the pile. The french drain would remove the blocking effects of that soil and allow effective subdrainage.

5. "demonstrate if saturation of the pile could change the stability of the coarse refuse"

According to the March 23, 1984 report by Rollins, Brown and Gunnell in the Permit Application "it is recognized that the refuse material has no friction angle in a saturated condition". This means that the stability of the pile would decrease (most probably to failure) if the pile were to be saturated. As explained above there is no opportunity for the refuse material to become completely saturated because of the porosity of the pile.

Questions on the drawings and monitoring schedules are answered in the attached letter. Please feel free to call if you have any questions on this submittal.

Sincerely yours,



Douglas C Pearce  
Mine Engineer



# KAISER STEEL

SUNNYSIDE MINES

REVISIONS

NO.	DATE	BY
1		
2		
3		
4		

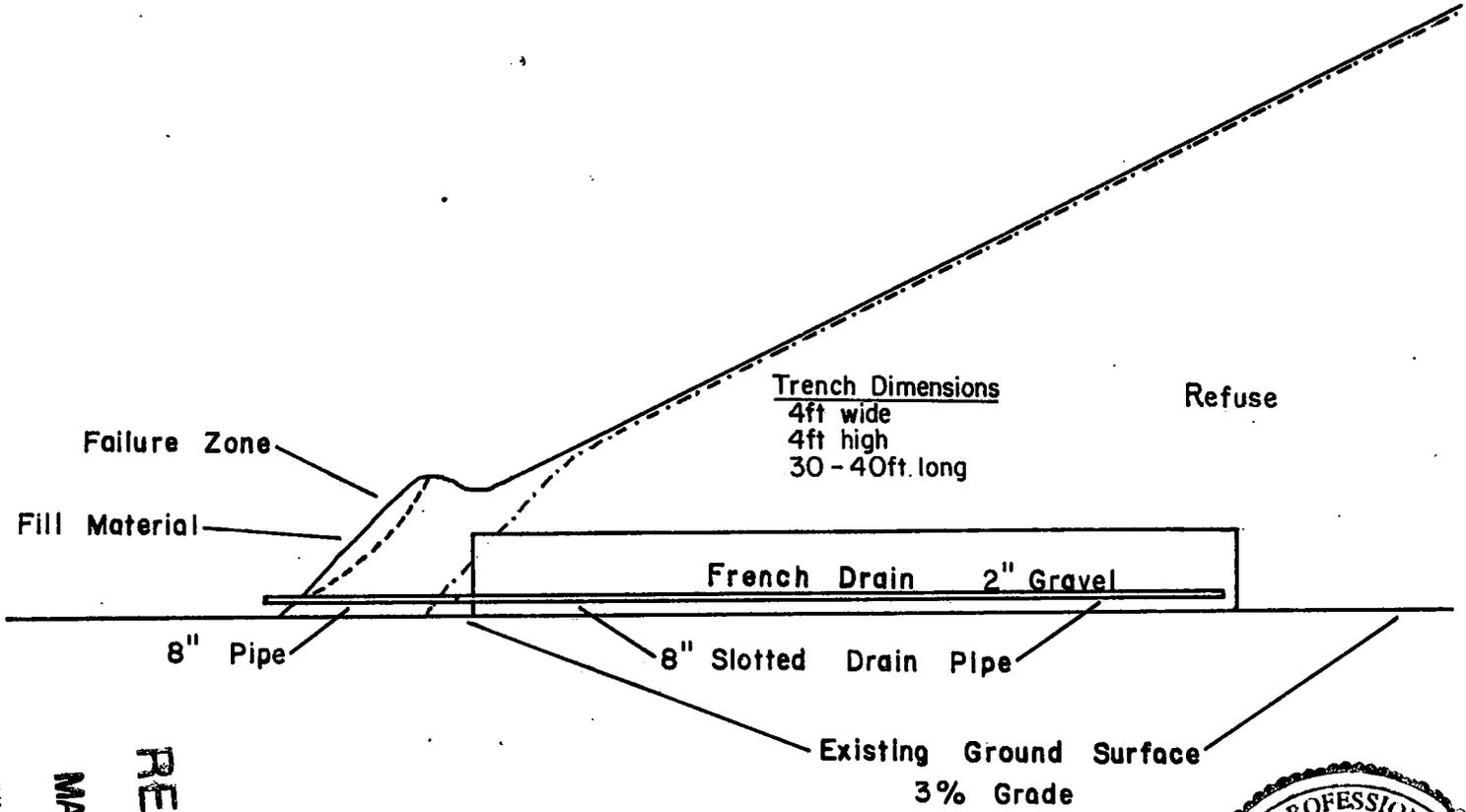
Codrese Refuse Toe  
Failure Zone

DRAWN BY	CHECKED BY	APPROVED
DCP		

DATE 4/3/85

SCALE 1" = 10'

DRAWING NO.



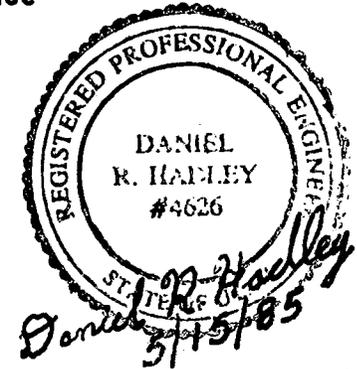
Trench Dimensions  
4ft wide  
4ft high  
30 - 40ft. long

Refuse

RECEIVED

MAY 23 1985

DIVISION OF OIL  
GAS & MINING



Section Taken Plate III-5

ACT/007/007  
# 7, 3, 15 w/map



KAISER STEEL CORPORATION  
SUNNYSIDE COAL MINES  
SUNNYSIDE, UTAH 84539  
TELEPHONE 801-888-4421

March 7, 1985

RECEIVED

MAR 08

DIVISION OF OIL  
GAS & MINING

Mr. Dave Lof, Inspector  
Division of Oil, Gas, & Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

Re: Remedial Action, N.O.V. 85-4-4-2,  
1 of 2, ACT/007/007, Sunnyside  
Mines, Carbon County, Utah

Dear Mr. Lof:

The drainage area for the parking lot, office, warehouse, bathhouse, and shop area has been redesigned as per NOV 85-4-4-2, 1 of 2. Water traveling towards the bridge will be treated under the bridge for suspended sediments with silt fences. Water which was running under the metal plate will be stopped by sealing the hole with cement. Drainage from the underpass culvert will be treated on a temporary basis with a fabric filter over the outlet. Permanent mitigation will be to change the culvert discharge area as per Plate III-12 inside the disturbed area after the spring thaw. These plans are included for Division review.

Sincerely,

Douglas C. Pearce  
Mine Engineer

DCP:th

N.O.V. 85-4-4-2, 1 of 2  
MITIGATION PLAN

The violation involves drainage from a small area in which the orientation of present facilities and topography prohibits the channeling of drainage water from the No. 1 Mine Portal Bridge abutment into the surface facilities pond as originally depicted on Plate III-12 of the permit application. Compounding the problem is water from the mine parking lot that ponds at the northwest corner of Training Center. Joints in the retaining wall by the Training Center slowly drain the ponded water into the bridge abutment area. During the inspection, water from snow melt was observed spilling from several joints onto a sidewalk where the water flowed in two directions -- toward the bridge abutment and the surface facilities pond.

Mitigation will involve blocking the sidewalk flow path toward the bridge abutment. Water from the remaining bridge abutment area will be filtered by two silt fences located under the bridge.

Water was also observed flowing under a metal plate set in the sidewalk. This hole will be blocked with concrete.

A drain located in the bottom of a manway underpass by the southwest corner of the bathhouse presently discharges into Grassytrail Creek. The culvert outlet will be covered with a fabric filter until the spring thaw when the culvert discharge will be rerouted as shown on Plate III-12. The exact length of the culvert cannot be determined until elevations are taken during construction for proper grade.

MRP REVISION/NOV TRACKING FORM  
(Revised: 3/28/85)

Type of Proposal:  COAL  NONCOAL

Exploration \_\_\_\_\_  
 NOV/CO Abatement, NOV # 85-4-17-3 Abatement Deadline \_\_\_\_\_  
 MRP Revision \_\_\_\_\_  
 MRP Amendment \_\_\_\_\_

Title of Proposal: Abatement Plans, 2 of 3 erosion protection course refine pond toe discharge  
3 of 3 twin shafts pond pipe seepage connection  
 Issuing Inspector Dave Hof

Company name: Kaiser Steel Coal Corp. Project/ Mine Name: Sunnyside Mine

File # (PRO/ACT): 007/007 Disturbed (Fed/State/Fee): 1 1  
 (CEP/EXP) \_\_\_\_\_ Acres

Assigned Reviewers: \_\_\_\_\_ Review Time (hrs): \_\_\_\_\_ OTHER AGENCIES: (# of copies & date)

(Hydrology) <u>TJS</u>	_____	OSM <u>1 at / w/ pump</u>
(Wildlife/Veg.) _____	_____	USFS _____
(Engineering) _____	_____	BLM _____
(Soils) _____	_____	Health _____
(Geology) _____	_____	History _____
		H2O Rts _____
		Wildlife _____

DATES: \_\_\_\_\_ USFWS \_\_\_\_\_

(a) Initial Plan Received <u>5/28/85</u>	(d) Optr. Resubmission _____
Tech Review Due <u>6/17/85</u>	Tech Review Due _____
Tech Review Complete <u>6/16/85</u>	Tech Review Complete _____
DOGM Response Sent <u>6/16/85</u> (?) <i>Both 2 of 3 &amp; 3 of 3</i>	DOGM Response Sent _____
(b) Operator Resubmission <u>7/5/85</u>	(e) Bond Revised _____
Tech Review Due <u>7/19/85</u> (2 of 3)	Amount (\$) _____
Tech Review Complete _____	(f) Cond'l. Approval _____
DOGM Response Sent _____	Stipulations Due _____
(c) Operator Resubmission _____	Stips Received _____
Tech Review Due _____	Final Approval <u>3 of 3 (June 19, 1985)</u>
Tech Review Complete _____	(g) MR-9 Received _____
DOGM Response Sent _____	MR-9 Acknowledged _____

*6/10/85  
 letter sent  
 on 3 of 3 (85-4-17-3)*

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

NOTE (INSPECTORS): Please attach a copy of the NOV issued to the abatement plan when received from the operator.

NOTE (REVIEWERS): Please prepare review comments in a format referencing the appropriate regulation or statute. State the deficiency as well as the minimum requirement necessary to demonstrate compliance. Fill in the # of hours spent in review by discipline. Return completed form to the Special Permits Supervisor when complete.



III-35 will be used in place of the wire mesh anchored rip rap. The liner will extend from the spillway to the wash bottom. Width of the liner will be five feet. Extention down the wash is not possible because the wash enters a culvert under the railroad embankment.

Please call if you have questions or need additional information.

Sincerely yours,

A handwritten signature in cursive script that reads "Douglas C Pearce".

Douglas C Pearce  
Mine Engineer



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

*Tom L.*  
Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

June 19, 1985

Mr. Douglas C. Pearce  
Mine Engineer  
Kaiser Steel Corporation  
P. O. Box D  
Sunnyside, Utah 84539

Dear Pearce:

Re: Review of Abatement Plan for NOV N85-4-17-3, 2 Of 3, Sunnyside Mines, Kaiser Coal Corporation, ACT/007/007, Carbon County, Utah

The Division Technical Staff has reviewed the plan for the erosion protection at the course refuse toe sediment pond discharge, received May 28, 1985. The Division has several questions regarding the submittal. These are:

1. Reference is made to Plate III-3, of the Sunnyside Permit Application as a description of the wire mesh anchored riprap that would be used to control erosion and dissipate energy at the base of the vertical drop from the spillway. In reviewing the permit application Plate III-3 was found to be the 25 year Mining Plan for the Sunnyside Permit area. The operator must submit a Plate or Figure describing the wiremesh anchor riprap to be used at the base of the drop structure.
2. An expected velocity value of 7.4 feet per second at the base of the vertical drop was given. No supporting calculations have been provided to justify this velocity estimate. The operator must provide calculations which demonstrate that 7.4 feet per second is an acceptable value.

Page 2  
Mr. Douglas Pearce  
ACT/007/007  
June 19, 1985

The above requested information must be submitted to the Division on or before July 15, 1985. If you should have any questions regarding the above requested information, please contact myself or Tom Suchoski of the Division staff.

Sincerely,



D. Wayne Hedberg  
Permit Supervisor/  
Reclamation Hydrologist

TJS:jvb  
cc: A. Klein  
R. Hagen  
L. Braxton  
J. Helfrich  
D. Lof  
T. Suchoski  
0031R-44

MRP REVISION/NOV TRACKING FORM  
(Revised: 3/28/85)

Type of Proposal:  COAL  NONCOAL

Exploration  
 NOV/CO Abatement, NOV # 85-4-17-3 Abatement Deadline \_\_\_\_\_  
 MRP Revision  
 MRP Amendment

# 2 of 3  
& 3 of 3

Issuing Inspector Dave Hoj

Title of Proposal: Abatement Plans, 2 of 3 erosion protection course refound pond toe discharge  
3 of 3 twin shafts pond pipe seepage correction

Company name: Kaiser Steel Coal Corp. Project/ Mine Name: Sunnyside Mine

File # (PRO/ACT): 007/007 Disturbed (Fed/State/Fee): 1 1  
(CEP/EXP) Acres

Assigned Reviewers: \_\_\_\_\_ Review Time (hrs): \_\_\_\_\_ OTHER AGENCIES: (# of copies & date)

(Hydrology) <u>TJS</u>	<u>2.0</u>	OSM _____
(Wildlife/Veg.) _____	_____	USFS _____
(Engineering) _____	_____	BLM _____
(Soils) _____	_____	Health _____
(Geology) _____	_____	History _____

DATES: \_\_\_\_\_ USFWS \_\_\_\_\_ Wildlife \_\_\_\_\_

- |  |                              |
|--|------------------------------|
| (a) Initial Plan Received <u>5/28/85</u> | (d) Optr. Resubmission _____ |
| Tech Review Due <u>6/17/85</u>           | Tech Review Due _____        |
| Tech Review Complete <u>6/17/85</u>      | Tech Review Complete _____   |
| DOGM Response Sent _____                 | DOGM Response Sent _____     |
| (b) Operator Resubmission _____          | (e) Bond Revised _____       |
| Tech Review Due _____                    | Amount (\$) _____            |
| Tech Review Complete _____               | (f) Cond'l. Approval _____   |
| DOGM Response Sent _____                 | Stipulations Due _____       |
| (c) Operator Resubmission _____          | Stips Received _____         |
| Tech Review Due _____                    | Final Approval _____         |
| Tech Review Complete _____               | (g) MR-9 Received _____      |
| DOGM Response Sent _____                 | MR-9 Acknowledged _____      |

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

NOTE (INSPECTORS): Please attach a copy of the NOV issued to the abatement plan when received from the operator.

NOTE (REVIEWERS): Please prepare review comments in a format referencing the appropriate regulation or statute. State the deficiency as well as the minimum requirement necessary to demonstrate compliance. Fill in the # of hours spent in review by discipline. Return completed form to the Special Permits Supervisor when complete.

**KAISER  
COAL**

KAISER COAL CORPORATION  
Sunnyside Coal Mines  
P.O. Box D  
Sunnyside, Utah 84539  
Telephone (801) 888-4421

May 25, 1985

File: ACT/007/007  
# 3,7,  
**RECEIVED**

**MAY 28 1985**

DIVISION OF OIL  
GAS & MINING

D. Wayne Hedberg  
Division of Oil, Gas & Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

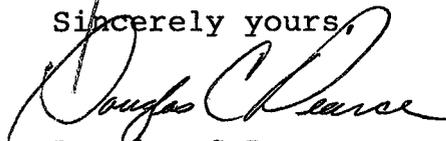
RE: NOV N85-4-17-3 Part 2 of 3  
Sunnyside Mines, ACT/007/007

Dear Mr. Hedberg:

A plan is required by the above violation for adequate erosion protection at the course refuse toe pond discharge. The culvert discharges five feet above ground level on a 1.5:1 slope. Expected velocity from the vertical drop is 7.4 feet per second. Wire mesh anchored rip rap (Plate III-3, Sunnyside Permit Application) will be used to control erosion and dissipate energy. The liner will extend from the spillway to the wash bottom. Extention down the wash bottom is not possible because the wash enters a culvert at that point under the railroad embankment (see Plate III-5, Sunnyside Permit Application).

Please call if you have questions or need additional information.

Sincerely yours,



Douglas C Pearce  
Mine Engineer

25yr Mining Plan

**KAISER  
COAL**

**KAISER COAL CORPORATION**  
Sunnyside Coal Mines  
P.O. Box D  
Sunnyside, Utah 84539  
Telephone (801) 888-4421

May 25, 1985

RECEIVED

MAY 28 1985

DIVISION OF OIL  
GAS & MINING

File: ACT/007/007  
# 3,7, 15w/map  
(2 copies sent)  
1 to OSM  
noted  
for review

D. Wayne Hedberg  
Division of Oil, Gas & Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

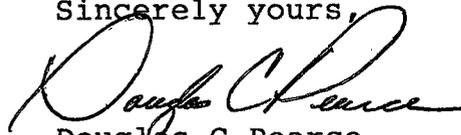
RE: Plans for the abatement of  
of NOV N85-4-17-3 part 3 of 3  
Sunnyside Mines, ACT/007/007

Dear Mr. Hedberg:

Please find enclosed two copies of Drawing D5-0112 SEEPAGE CONTROL PLAN - TWIN SHAFTS MINE WATER DISCHARGE POND. This drawing shows the plan that will be used to seal water seepage along the discharge pipe. Maintenance will take place as soon as approval is received. Steps in the construction will be as follows:

- o Fill around the culvert will be excavated.
- o The old culvert removed.
- o Fill will be compacted in the trench in 6" lifts to the original dike level.
- o Water will be pumped into the pond to test the seal.

Sincerely yours,



Douglas C Pearce  
Mine Engineer

REVISED LETTER  
COMING TO ADDRESS  
INSTALLATION OF EXISTING  
PIPE  
TJD  
6/6/85

Work Copy  
(TJB)

**KAISER  
COAL**

**KAISER COAL CORPORATION**  
Sunnyside Coal Mines  
P.O. Box D  
Sunnyside, Utah 84539  
Telephone (801) 888-4421

**RECEIVED**

May 25, 1985

**JUN 10 1985**

D. Wayne Hedberg  
Division of Oil, Gas & Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

**DIVISION OF OIL  
GAS & MINING**

RE: Plans for the abatement of  
of NOV N85-4-17-3 part 2 of 3  
Sunnyside Mines, ACT/007/007

Dear Mr. Hedberg:

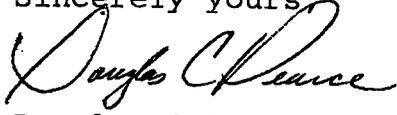
Please find enclosed two copies of Drawing D5-0112 SEEPAGE CONTROL PLAN - TWIN SHAFTS MINE WATER DISCHARGE POND. This drawing shows the plan that will be used to seal water seepage along the discharge pipe. Maintenance will take place as soon as approval is received. Steps in the construction will be as follows:

- o Fill around the culvert will be excavated.
- o The old culvert removed.
- o The new culvert will be installed.
- o Fill will be compacted in the trench in 6" lifts to the original dike level.
- o Water will be pumped into the pond to test the seal.

*Here is a replacement  
letter requested by  
Tom 6/4/85.*

*Thanks  
Doug Pearce*

Sincerely yours



Douglas C Pearce  
Mine Engineer

WAYNO

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS & MINING

1588 West North Temple  
Salt Lake City, Utah 84116  
Telephone: (801) 533-5771

*Plans for  
20/3  
+ 3 of 3 coming*

NOTICE OF VIOLATION NO. N 85-4-17-3

From the STATE OF UTAH  
To the Following Permittee or Operator:

NAME KAISER STEEL CORPORATION

MINE SUNNYSIDE MINE  SURFACE  UNDERGROUND  OTHER \_\_\_\_\_

CATEGORY OF OWNERSHIP:  STATE  FEDERAL  FEE  MIXED

OSM MINE NO. \_\_\_\_\_ STATE PERMIT NO. ACT/007/007 MSHA I.D. NO. \_\_\_\_\_

COUNTY AND STATE CARBON COUNTY, UTAH TELEPHONE \_\_\_\_\_

MAILING ADDRESS: P.O. Box D, SUNNYSIDE, UT 84539

DATE OF INSPECTION MAY 8 9, 19 85.

TIME OF INSPECTION: FROM 2:45 - 4:00 pm  a.m.  p.m. 9:15 - 4:30  a.m.  p.m.

NAME OF OPERATOR (if other than permittee) \_\_\_\_\_

MAILING ADDRESS: \_\_\_\_\_

Under the authority of the Utah Coal Mining and Reclamation Act of 1979 (Sec. 40-10-1 et seq., Utah Code Annotated, 1953), the undersigned authorized representative of the Director and the Division of Oil, Gas & Mining has conducted an inspection of the above mine on the above date and has found violation(s) of the Act, the regulations or required permit condition(s) listed in the attachment(s). This Notice constitutes a separate Notice of Violation for each violation listed.

You must abate each of these violations within the designated abatement time. You are responsible for doing all work in a safe and workmanlike manner.

The undersigned representative finds that cessation of mining is  is not  expressly or in practical effect required by this Notice. For this purpose "Mining" means extracting coal from the earth or a waste pile and transporting it within or from the minesite.

This Notice shall remain in effect until it expires as provided on the reverse or is modified, terminated or vacated by written notice of an authorized representative of the Director of the Division of Oil, Gas & Mining. The time for abatement may be extended by the authorized representative for good cause, if a request is made within a reasonable time before the end of the abatement period.

Date of Service MAY 13, 1985 David Lof  
SIGNATURE OF AUTHORIZED REPRESENTATIVE

Time of Service 3:00  a.m.  p.m. DAVID LOF #4  
NAME AND I. D. NO.

Person Served with Notice DOUG PEACE MINING ENGINEER  
PRINT NAME AND TITLE

Signature ISSUED FROM DIVISION OFFICE

IMPORTANT — PLEASE READ REVERSE OF THIS PAGE



STATE OF UTAH

Notice of Violation No. N 85-4-17-3

Violation No. 1 of 3

Nature of the Violation

FAILURE TO CONSTRUCT AND MAINTAIN DIVERSIONS DESIGNED TO DIVERT  
RUNOFF FROM A SEDIMENT POND, TO ENSURE THAT THEY WILL PASS  
SAFELY THE PEAK RUNOFF FROM A 10 YEAR, 24 HOUR PRECIPITATION  
EVENT  
FAILURE TO MINE IN ACCORDANCE WITH AN APPROVED INTERIM MINE PLAN

Provision(s) of the Regulations, Act, or Permit Violated

UMC 40-10-22 (1)(c)  
UMC 771.19  
UMC 817.43 (a)

Portion of the Operation to which Notice Applies

DIVERSION "D1" IN THE MAIN SHAFT AREA  
DIVERSIONS "D4 + D5" IN THE NO. 2 CANYON DRAINAGE AREA

Remedial Action Required (including interim steps, if any)

CONSTRUCT AND MAINTAIN THE DIVERSIONS IN ACCORDANCE WITH THE  
APPROVED PLAN

Time for Abatement (including time for interim steps, if any)

JUNE 4, 1985 AT 5 P.M.



STATE OF UTAH

Notice of Violation No. N 85-4-17-3

Violation No. 2 of 3

Nature of the Violation

FAILURE TO CONDUCT MINING ACTIVITIES IN ACCORDANCE WITH AN APPROVED INTERIM  
PERMIT  
FAILURE TO PROVIDE AN ADEQUATE DISCHARGE STRUCTURE

Provision(s) of the Regulations, Act, or Permit Violated

UCA 40-10-22(1)(c)  
UMC 771.19  
UMC 817.46(c), (d), (m)  
UMC 817.47

Portion of the Operation to which Notice Applies

COARSE REFUSE TOE SEDIMENT POND  
- EMBANKMENT SLOPES  
- TOP WIDTH OF THE EMBANKMENT  
- SEDIMENT LEVEL  
- DAMAGED EMERGENCY SPILLWAY RISER  
- EMERGENCY SPILLWAY OUTLET PROTECTION

Remedial Action Required (including interim steps, if any)

A. RECONSTRUCT AND MAINTAIN THE POND TO MEET APPROVED DESIGN SPECIFICATION  
B. SUBMIT COMPLETE AND ADEQUATE PLANS TO THE DIVISION ~~THAT~~  
~~AND~~ PROVIDE FOR ADEQUATE EROSION PROTECTION AT THE EMERGENCY  
SPILLWAY OUTLET

Time for Abatement (including time for interim steps, if any)

A. JUNE 14, 1985 @ 5 P.M.  
B. MAY 28, 1985



STATE OF UTAH

Notice of Violation No. N. 85-4-17-3

Violation No. 3 of 3

Nature of the Violation

FAILURE TO CONSTRUCT AND MAINTAIN A POND TO PREVENT SHORT  
CIRCUITING TO THE EXTENT POSSIBLE

Provision(s) of the Regulations, Act, or Permit Violated

UMC 817.49 (b)  
UMC 817.46 (e)

Portion of the Operation to which Notice Applies

MANSHAFT MINE WATER ~~AND~~ POND 001, WATER PIPING THROUGH  
THE EMBANKMENT ALONG THE SPILLWAY

Remedial Action Required (including interim steps, if any)

- A. CEASE PUMPING WATER INTO THE POND
- B. SUBMIT COMPLETE AND ADEQUATE PLANS TO THE DIVISION  
WHICH SHOW HOW THE PIPING ALONG THE SPILLWAY WILL BE  
STOPPED

Time for Abatement (including time for interim steps, if any)

- A. IMMEDIATELY
- B. MAY 28, 1985 AT 5 P.M.

**KAISER  
COAL**

**KAISER COAL CORPORATION**  
Sunnyside Coal Mines  
P.O. Box D  
Sunnyside, Utah 84539  
Telephone (801) 888-4421

*File ACT/007/007  
#3,7 1/15 w/mep*

**RECEIVED**

**OCT 15 1985**

**DIVISION OF OIL  
GAS & MINING**

October 10, 1985

D. Wayne Hedberg  
Division of Oil, Gas & Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

RE: Reconstruction Plans, Coarse  
Refuse Toe Sediment Pond  
ACT/007/007, Sunnyside Mines

Dear Mr. Hedberg

In your October 4, 1985 letter approving the plans for the reconstruction of the Coarse Refuse Toe Sediment Pond, you cite a deadline for construction of October 30, 1985. This date may not allow sufficient time for construction, having received your approval letter on October 9, 1985 and because approval from the Department of Health has not been received.

We have received bids to contact this work. The cost of the project is estimated to be \$85,000 of which the main cost is haulage of borrow soils from an approved site. The contractor has recommended that borrow material be obtained from another area approximately 200 feet to the southwest of the pond across the Carbon County Railway tracks. Borrowing from this site will result in a cost reduction of approximately \$45,000 after reclamation costs. For this reason we are very interested in using the new area as a borrow site. A map of the area and a discription of the project has been attached for your review.

Because the new borrow site must be approved prior to construction, we are requesting that the Division review the plan as soon as possible. Performing a technical review in the field during the week of October 14, 1985 would help expedite the process. We are also requesting that the construction deadline be extended to allow adequate time for review by the State Board of Health and construction by Kaiser.

Page 2  
October 10, 1985  
Mr. Wayne Hedberg

Your help in this matter will be appreciated. Please contact myself or other Kaiser staff members if you have questions or need to schedule field time.

Sincerely,  
Kaiser Coal Corporation

A handwritten signature in cursive script that reads "Douglas C Pearce".

Douglas C Pearce  
Mine Engineer

enclosures

## COARSE REFUSE TOE BORROW AREA

The reconstruction plans for the Coarse Refuse Toe Pond require approximately 2,000 CY of borrow. A new borrow area 200 feet southwest of the pond (see drawing D4-0117) will be used for the fill material. Soil type, according to Plate VIII-1 of the Sunnyside permit is ILDEFONSO VERY STONY LOAM (IGC). Topsoil on the primary borrow site, 0.57 acres and on the secondary site (to be used only if needed), 0.45 acres will be stored were shown on Drawing D4-0117. The top twelve inches of soil will be removed and stored until the borrow site is finished. Then the soil will be redistributed and seeded as outlined in Section 3.5 of the permit application. The topsoil will be protected from water erosion by building a ditch around the pile. Further protection will not be needed because the soil will be replaced and seeded within a few weeks of disturbance.

Sediment control will be effected by a total containment berm surrounding the disturbed area. Water and sediments will remain on site. The berm will be two feet high and five feet wide at the base. The site will be contoured as depicted on drawing D4-0117 to prevent runoff.

The additional bond required for the new disturbed area is calculated as follows: ..

### Primary Site

Soil Testing, Fertilizer and Seed Bed Preparation-

$$\$197.33^* \times 0.57 \text{ acres} = \$112.48$$

Revegetation-

$$\$626.74^{**} \times 0.57 \text{ acres} = \$357.24$$

Total- \$469.72

### Secondary Site (only if needed)

Soil Testing, Fertilizer and Seed Bed Preparation-

$$\$197.33 \times 0.45 \text{ acres} = \$ 88.79$$

Revegetation-

$$\$626.74 \times 0.45 \text{ acres} = \$282.03$$

Total- \$370.82

\* p. 79, Section 3.5.7.1

\*\* Table III-29