

BOARD OF COUNTY COMMISSIONERS OF DOUGLAS COUNTY, KANSAS

WEDNESDAY, SEPTEMBER 9, 2015

4:00 p.m.

-Consider approval of the minutes for July 22, July 29, August 5 and August 26, 2015.

CONSENT AGENDA

- (1) (a) Consider approval of Commission Orders;

REGULAR AGENDA

- (2) Consider **CUP-15-000165**: Hamm Eudora Quarry No. 68, 1232 E 2300 Road; Revised reclamation plan for current phase to allow stockpile of product. (Mary Miller is the Planner)
- (3) (a) Consider approval of Accounts Payable (if necessary)
 - (b) Appointments
 - Joint Economic Development Council (2) positions – 10/2015**
 - (c) Public Comment
 - (d) Miscellaneous
- (4) Adjourn

WEDNESDAY, SEPTEMBER 16, 2015

WEDNESDAY, SEPTEMBER 23, 2015

-Proclamation for National 4-H Week (October 4-10, 2015) (Kaitlyn Peine)

WEDNESDAY, SEPTEMBER 30, 2015 -Cancelled

WEDNESDAY, OCTOBER 7, 2015 - Light agenda

WEDNESDAY, OCTOBER 14, 2015

WEDNESDAY, OCTOBER 21, 2015

WEDNESDAY, OCTOBER 28, 2015

WEDNESDAY, NOVEMBER 4, 2015

WEDNESDAY, NOVEMBER 11, 2015

WEDNESDAY, NOVEMBER 18, 2015

WEDNESDAY, NOVEMBER 25, 2015 - Cancelled

Note: The Douglas County Commission meets regularly on Wednesdays at 4:00 P.M. for administrative items and 6:00 P.M. for public items at the Douglas County Courthouse. Specific regular meeting dates that are not listed above have not been cancelled unless specifically noted on this schedule.

Memorandum
City of Lawrence
Planning Department

TO: Board of County Commissioners
FROM: Mary Miller
DATE: September 3, 2015
RE: CUP-15-00165: Revised Reclamation Plan for Cuts 1-4 and a summary of review following first year of operations of CUP permitted portion of Hamm Eudora Quarry #68

Background

Conditional Use Permit, CUP-12-16-02, for the Hamm Eudora Quarry #68 was approved by the Board of County Commissioners on July 9, 2003 subject to Conditions and Restrictions of Use. The Conditional Use Permit plans were released to the Zoning and Codes Office on July 8, 2008 when these conditions were met. The CUP was approved for property adjacent to the north side of an existing quarry, commonly called the Petefish Quarry. The Petefish Quarry began operations prior to the requirement for a Conditional Use Permit, but the reclamation of this existing quarry was included in the CUP conditions for the permitted quarry to the north, Quarry #68.

Revised Reclamation Plan

The CUP conditions require that a reclamation plan be submitted prior to work commencing in the subsequent phase of the quarry. Hamm is still quarrying in the current phase, Cuts 1-4, but included a request in the Operation Plan to allow stockpiling of product in the general area of Cuts 1 and 2. (Figure 1) The land has been graded, but would not be seeded until quarrying operations were completed. The stockpile area would be reclaimed with the operation area on the west side of the Petefish Quarry.

The Operation Report for the 1st year of quarrying has been reviewed and accepted by the Director of Public Works and the Planning Office with the exception of the proposed additional stockpile area. As this request will require a revision to the reclamation plan, the revised reclamation plan is before the Commission for consideration.

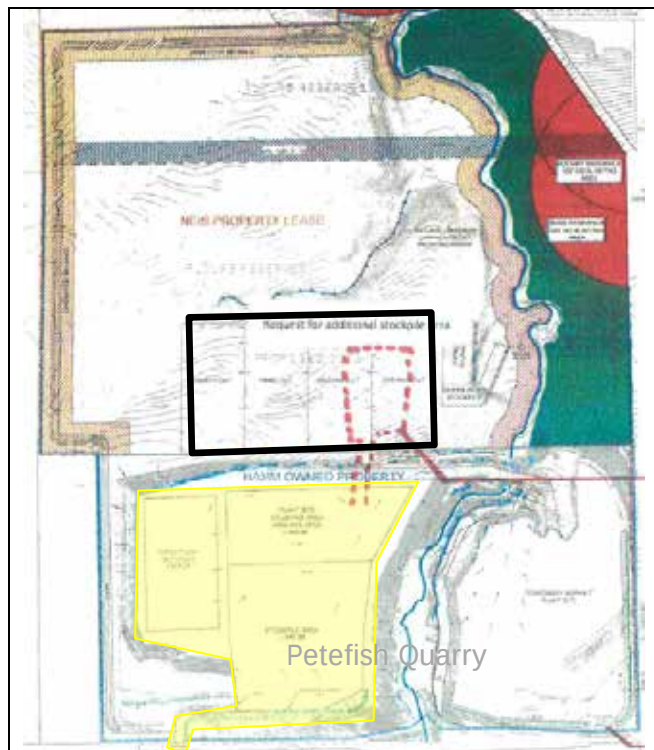


Figure 1. Proposed additional stockpile area outlined in red; Current Phase in black; Operation area/Petefish Quarry, highlighted yellow.

The review of the Operation Report is included with this memo and the Report is attached for reference; however, no action is required on the Report.

Hamm Quarry's representative provided the following information related to the request (the information refers to the 'Neis property' this is the area included in the CUP, not the original quarry adjacent to N 1200 Road):

"Hamm is requesting to be allowed to incorporate a 5 acre stockpile area on the Neis property. The area requested to be used as additional stockpile area is shown on Exhibit D Page 1 of the Revised Operation and Screening Map. Currently Hamm is permitted to only mine and reclaim Neis property A market demand for additional produced products has required Hamm to increase its inventory of different products. Current permitted stockpile area located only on Hamm owned property west of Coleman Creek limits the number of different types and inventoried tons of products Hamm produces. Hamm is currently stockpiling products on the Neis property until final reclamation is required for the area prior to additional sequence of cuts is permitted the County. The requested area had the overburden removed in preparation for the area to be mined however due to mud and clay integrated into the ledge Hamm was not able to process the ledge for quality reasons. The overburden was replaced and top soil was applied to the east and north sides of this area. The elevation of this area is the elevation of final reclamation with the exception of topsoil being applied. Hamm's request is to be permitted to stockpile produced products on the designated 5 acre plot located on Neis property with the original reclamation requirements to be completed around the stockpile area excluding the access road prior to additional sequence of cuts approved. Hamm is requesting final reclamation of the additional stockpile area on Neis property to complete upon completion of final reclamation of Hamm owned property west of Coleman Creek."

Action requested:

Approve the revised reclamation plan to allow approximately 5 acres of the current phase of the quarry, in the general location shown in Figure 1, to be used for stockpiling of product. The land has been graded but application of top soil and seeding will occur following the conclusion of quarrying activities on the property. The stockpiled area will be reclaimed in conjunction with the reclamation of the operation area on the Hamm owned property, the Petefish Quarry, west of Coleman Creek.

1ST YEAR OPERATION REPORT SUMMARY

Required Reviews

The CUP Restrictions of Use are included with this memo as Attachment A. The following items listed in the Restrictions of Use require Planning and/or Public Works Review:

- ITEM 9 in the Conditions and Restrictions of Use requires that prior to commencing operation of the quarry, **the first year of operation**, and every 5 years thereafter, the applicant shall submit a detailed report and plan of quarrying operations to the Planning Office and to the Douglas County Public Works Director indicating the phases of quarry operation, location of stockpile area, estimated volume of material being extracted, and a detailed monitoring and management plan for the areas undergoing reclamation.

The 2015 Detailed Operation Report which included revised screening/berming along N 1200 and E 2400 Roads was administratively approved.

- SUB-SECTION A of ITEM 9 notes that the reclamation plans for the existing quarry are to be submitted prior to commencement of operations on Cuts #1-4 shown on the plan. The reclamation plan for Cuts #1-4 are to be submitted prior to opening of quarrying activities in 'Future Reserves', and each subsequent reclamation plan shall be submitted prior to the opening of the following phase of quarrying activity.

A reclamation plan was submitted and approved prior to work commencing in Cuts #1-4 and quarrying is currently occurring in Cuts #1-4. A reclamation plan for the current phase (cuts 1 through 4) was approved by the Board of County Commissioners in 2014 subject to the condition that if the reclamation of this area changed, beyond minor variations, a revised reclamation plan would be required prior to moving into the next phase. A revised reclamation plan to allow stockpiling of product in the current phase was included in the Operation Report and is scheduled for consideration by the County Commission at their September 9, 2015 meeting.

- ITEM 10 in the CUP conditions and restrictions requires a detailed drainage study prior to work progressing in each phase of the quarrying operation. The detailed grading plan showing site runoff and its relationship to the adjoining properties is to be submitted to the Planning Office for review and approval prior to work progressing in each phase. A grading plan was submitted and approved prior to work commencing in the current phase.

A drainage study is not required at this time but will be required prior to work commencing in the next phase.

- Item 14 in the CUP conditions and restrictions requires that the Planning Office complete a comprehensive compliance review of the Conditional Use Permit and all conditions and forward a report to the County Commission. The first review is to have 1000 ft public notification. The first 2 comprehensive reviews included public notice; however, quarrying had not commenced at all with the first review and had begun only shortly before the second review. The third 5 year review

will be the first review which will include a substantial amount of quarrying; therefore, public notice will also be provided for this review. The next review will be required in 2019.

The following table lists these requirements and notes the items that have been completed:

Planning Reviews required with CUP for Eudora Quarry		
1st year quarrying /CUP	Detailed report and plan of operation	The quarrying activity moved into the first phase of the Quarry included in the CUP and this is the 1st year review.
Every 5 th year of quarrying	Detailed report and plan of operation (Planning and Public Works Director)	Same report as above, but on a 5 year basis · Approved 10/28/09 (filed with CUP-12-16-02) · Approved 4/16/14 (filed with CUP-14-00064) · <u>Next due in 2019</u>
Every 5 years	Comprehensive review with CUP conditions and restrictions (report to BoCC)	· 10/28/09 (filed with CUP-12-16-02) · 4/16/14 (filed with CUP-14-00064) · <u>Next due in 2019</u>
Prior to moving into next phase	Reclamation Plan (to BoCC) Drainage Study (Planning)	· Approved 4/16/14 before moving into the permitted quarry. A reclamation plan for the current phase (cuts 1 through 4) was approved subject to the condition that if the reclamation of this area changed, beyond minor variations, a revised reclamation plan would be required prior to moving into the next phase. · Reclamation Plan will not be required for current phase unless the reclamation changes as noted above. · <u>Reclamation and Drainage study will be required prior to moving into next phase.</u>

Revised Screening Plan

The screening provided along the roadways was established with the 2014 Operation Plan and was approved by the County Commission on April 16, 2014.

The Quarry operator requested a revision to the screening plan to allow higher berms and to place the trees on the top of the berm where they would serve to better screen the quarry activity. The revised screening plan is included with this memo as Attachment B. The screening varies from that approved in 2014 in that the trees are located on the top of the berms rather than at the foot. There is a ditch between the berm and the road in many locations and placing the tree in this location would reduce the effectiveness of the screening. The relocation of the trees to the top of the berms was administratively approved by Planning based on the fact that the trees would provide more efficient screening in this location and would be more likely to grow on the top of the berm rather than on the side, if they were planted at equal height to the road.

The County Engineer approved the relocation of the eastern access on N 1200 Road further to the west with the 2014 Operation Plan; however, based on the low volume of traffic anticipated with the asphalt plant the Engineer indicated the existing access point

was acceptable. The access will not be relocated to the west and plans were revised to reflect this.

The length and height of the berm along N 1200 Road has been increased in the 2015 plan and trees placed on the top of the berms rather than the base to screen the quarry area more effectively. These changes are illustrated in the following graphics and were approved administratively as they served to provide more effective screening than the previously approved plan. More information on the screening is provided in Exhibit F of the Operation Plan.

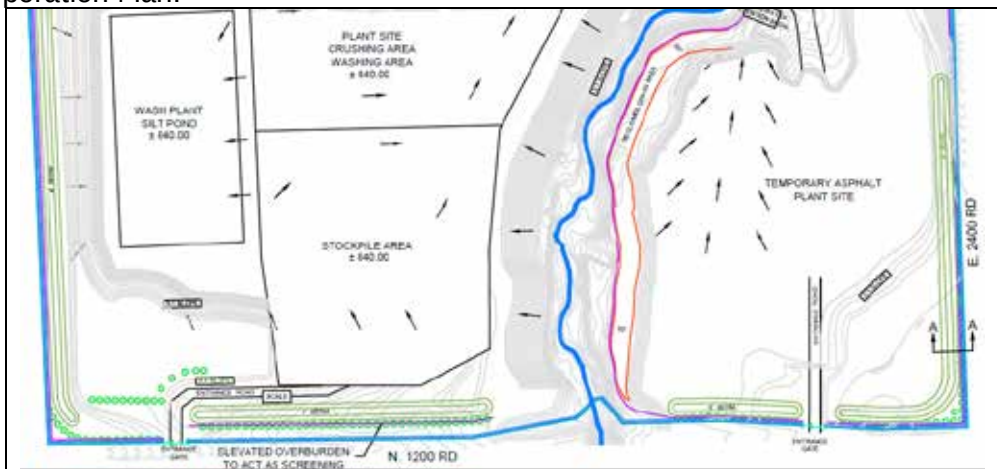


Figure 2a. Screening Plan approved with 2014 Operation Plan

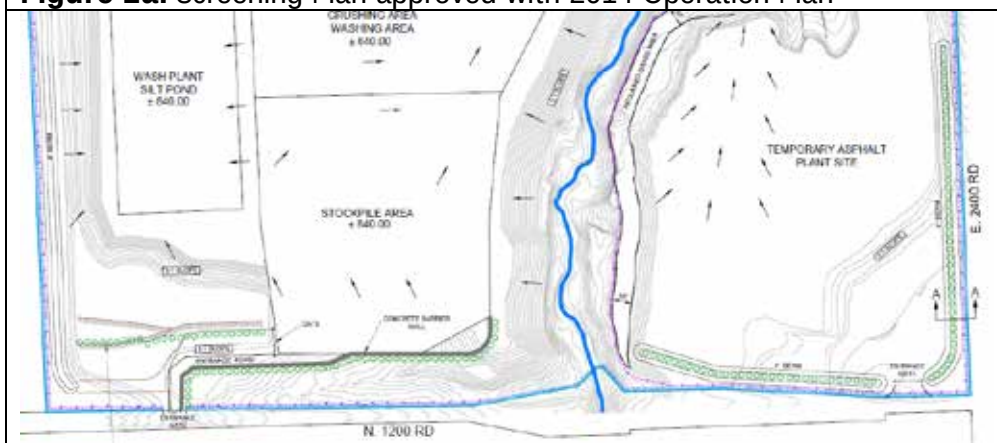


Figure 2b. Screening Plan approved with 2015 Operation Plan

1ST Year Review of Operation Plan

As noted earlier, the quarry is still operating in Cuts #1-4; therefore new reclamation plans are not required at this time. A revised reclamation plan has been provided to accommodate the proposed expansion of the product stockpile area into this phase.

The Operation Plan notes the current phase of the quarry as Cuts 1 through 4 and indicates that they will work from the opening cut to the fourth cut. The topsoil storage pile and overburden stockpile are shown on the plan and these lie out of the required setback. The operator indicated that they've crushed 125,000 tons since working on the Neis lease.

CUP-12-16-02; Eudora Quarry #68 RESTRICTIONS OF USE

I. Allowed Uses

- a) Quarry operations on this site shall consist of only the following:
- b) Removal of overburden and the extraction and processing of limestone utilizing a portable plant and equipment.
- c) Stockpiling of topsoil, overburden, and limestone.
- d) Transportation and hauling of limestone and materials.
- e) Reclamation of the site.
- f) Blasting operations.

The property shall not be used or requested for use as a sanitary landfill within the life of this Conditional Use Permit.

II. Setbacks

- a) Operations setbacks vary around the perimeter of the site based on the submitted site plan. Required setbacks are:
 - b) A minimum setback of 500 feet from existing residences shown on the site plan.
 - c) A minimum setback of 150 feet from the perimeter of the site, unless otherwise specified.
 - d) A minimum setback of 100 feet from the west side of the tributary running through the site. No quarry operations east of the tributary running through the site.

III. Time Restrictions on Operations

- a) Removal of materials from site: 6 a.m. – 9:00 p.m., Mon. – Sat.;
- b) Production and extraction: 7 a.m. – 5:00 p.m., Mon. – Sat.;
- c) Blasting: See Blasting below;
- d) No quarry operations shall take place on the following holidays or the days on which such holidays are observed by Kansas State Government: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the day immediately following Thanksgiving Day, and Christmas Day.
- e) If production demand requires additional production and extraction time outside the normal schedule, application for specific additional hours of operation for a specified period may be requested to the County Commission. Additional hours of operation for limited periods must be approved by the County Commission.

IV. Blasting

Blasting will follow recognized standards of the industry. Blasting shall be conducted between noon and 2:00 p.m. to the maximum extent possible and allowable by weather and atmospheric conditions. Blasting between 10:00 a.m. - noon and 2:00 p.m. – 4:00 p.m. shall be allowed occasionally to allow for weather and other conditions for efficient operation of the quarry. Blasting from 8:00 a.m. – 10:00 a.m. and 4:00 p.m. to 5:30 p.m. shall be permitted only in those circumstances when conditions during other allowable periods are unfavorable.

V. Pre-Blast Survey and Hydrologic Study

Any resident or property owner within ½ miles of the property may request Hamm Quarries to provide a pre-blast survey of their residences, wells, springs and outbuildings to determine the pre-blast condition, document such condition, and provide the report to the resident. Such a survey shall be paid for by Hamm Quarries and conducted by independent seismology and insurance firms.

Hamm Quarries shall contract with an independent seismology firm to monitor blasts at the commencement of quarrying operations at each residence within ½ mile of the blast site to assure that the blast design will not be harmful to any structures or wells and that all associated vibrations are below currently recognized safety levels. A report on the monitoring of initial blasting shall be made available to owners of the residences and such report shall include a full frequency analysis of vibrations.

After the initial blasting, Hamm Quarries shall contract for a continuous monitoring program commencing with the start of continuous regular blasting by an independent seismology firm at stations chosen by the seismology firm. A monthly report, which analyzes the impacts of daily blasting, will be available at Hamm Quarries' offices for inspection. Residents may request positioning of the seismograph to measure the impact at their property. The applicant shall not be required to conduct tests in excess of those it determines, based on the professional advice of its independent seismology firm, will provide adequate seismic readings at resident's properties. Any resident desiring to appeal the decision of the applicant concerning this condition may appeal it to the Douglas County Public Works Director who may order seismic tests at such locations as it deems appropriate under the circumstances at the expense of Hamm Quarries.

No explosives will be set in the ground overnight unguarded.

VI. Fencing

A fencing and screening plan shall be submitted by the applicant and approved by the County Commission prior to commencement of operations on the permitted property. The fence along N 1200 Road for the existing quarry will be repaired. A security gate and fence shall be placed at the entrance to the quarrying site across the main haul road. Secure gate to be locked during hours when no staff are present on the site. The entrance shall be signed stating:

- a) The operator's name, business address and phone number;
- b) Conditional Use Permit Number; and
- c) No Trespassing

VII. Air Quality

The quarry operator shall adhere to air quality standards of Kansas Department of Health and Environment (KDHE). Airborne dust produced as a result of the quarry operation shall be controlled by the operator and shall comply with all requirements of the Air Quality Standards and Regulations of the KDHE. Specifically, such airborne dust produced as a result of the quarrying operation shall not exceed 20 percent of opacity more than one (1) time in a one (1) year period as observed by an Official Observer of the KDHE over a five (5) minute period.

VIII. Other Regulatory Restrictions

All applicable regulations of utility companies, EPA, KDHE, Kansas State Board of Agriculture – DWR, Kansas State Conservation Commission, and other applicable agencies shall be adhered to and subsequent revisions to these regulations shall apply. All permits needed to operate a quarry, such as a National Pollutant Discharge Elimination System Permit, Mine Identification Number, Kansas State Board of Agriculture Division of Water Resources Permit to wash rock, discharge permit, etc. be obtained.

IX. Reclamation and Review

- a) Prior to commencing operation of the quarry, the first year of operation, and every 5 years thereafter, the applicants shall submit a detailed report and plan of quarrying operations to the Planning Office and to the Douglas County Public Works Director indicating the phases of quarry operation, location of stockpile area, estimated volume of material being extracted, and a detailed monitoring and management plan for the areas undergoing reclamation.

The Monitoring and Management Plan for the Reclamation Process shall include:

- a) Detailed reclamation plans submitted for each phase of the reclamation process for review and recommendation by the Planning Staff and approval by the County Commission. The reclamation plan for the existing quarry shall be submitted prior to commencement of operations on Cuts #1-4 shown on the plan. The reclamation plan for Cuts #1-4 shall be submitted prior to opening of quarrying activities in "Future Reserves", and each subsequent reclamation plan shall be submitted prior to the opening of the following phase of quarrying activity. The property shall be reclaimed to a state similar to the existing state (or better) with reference to general topography, percent slope, and plant and animal life supported by the established ecosystem. The plan shall be reviewed by the LDCPC for recommendation to the BCC for their approval.
- b) A performance bond in the amount required by applicable Kansas statutes with sufficient sureties shall be secured to cover reclamation activities for the existing site and proposed Cuts #1-4 as designated on the site plan and shall be filed with the Kansas State Conservation Commission (KSCC) prior to the commencement of any site preparation activities or any other work being done pursuant to the CUP. This performance bond shall remain in place for the entire life of the permit and shall not be subject to release until the plant site has been fully reclaimed and certification thereof shall have been made by the KSCC. The performance bond must meet the standards and statutes of the State of Kansas.

No more than 30 acres may be open, mined and extracted from at any one time on the quarry site, exclusive of the plant site. No more than 10 acres shall be open, mined and extracted from in a subsequent phase until reclamation is complete on the previous phase.

X. Drainage Study

Prior to work progressing in each phase of the quarrying operation, a detailed grading plan showing site runoff and its relationship to the adjoining properties shall be submitted to the Planning Office for review and approval prior to work progressing in each phase.

XI. Site Access and Road Restrictions

- a) No direct access to County Road E 2400 shall be allowed.
- b) The access to the site for transport truck traffic and hauling of rock shall be restricted to N 1200 Road.
- c) The route for truck traffic heading out of the site will be west on N 1200 Road to County Route 1061.
- d) Applicant shall provide rock, culvert pipes, and construction assistance to Eudora Township and Douglas County to improve N 1200 Road from E 2400 Road to County Road 1061 in conformance with requirements of Eudora Township and Douglas County Public Works Department.
 - i. The improvements required include replacement of four culverts according to Douglas County Public Works specifications and improvement of the road base and surface to a minimum width of 24 feet.
 - ii. Applicant shall pay Douglas County for costs of acquiring any additional right-of-way needed for the roadway and culvert improvements.
 - iii. Required road improvements shall be completed prior to any rock being extracted from the new permitted property.
 - iv. Applicant shall periodically supply rock and dust control for maintenance of the township road during periods of quarry activity.
 - v. Applicant shall pay Douglas County a fee of 10 cents per ton of rock hauled from the permitted property. The fee per ton amount will be indexed every year based on the Consumer Price Index for all urban consumers-all items. Funds from the fee shall be deposited by Douglas County in an account to be used by Public Works to assist in the maintenance of County Roads used by trucks hauling rock from the quarry.

- e) Restrictions which shall be posted at the entrance to the plant, regarding vehicles hauling from the site, are to include:
 - i) no flat bed trucks without sides or tailgates;
 - ii) tailgates in place and upright position; and
 - iii) all trucks leaving the site must be covered by a secure tarp.
- f) Hamm Quarries shall be responsible for spillage and clean up of aggregate within one mile of the plant site. The failure by the applicant to clean up spilled aggregate of such roads within a reasonable period of time shall be grounds for action under the Inspection/Violation/Revocation.
- g) Weight limitations shall be posted on appropriate roads adjacent to the quarry.
- h) Hamm Quarries shall take the lead to communicate and cooperate with the Douglas County Public Works Director and Eudora city and school officials on traffic controls on County Road during periods of quarry activity.

XII. Noise and Light Pollution

Vehicles used in plant operation (extraction and production) after 5:30 p.m. ½ hour prior to sunset shall be equipped with a strobe light in addition to the back-up (audible) signal alarm. During hours when it is permissible to use only a strobe light, the audible signal shall be turned off.

Permanent outdoor lighting at the plant area, mining area, and haul roads shall be shielded and directed down with a solid screen to prevent light pollution beyond the site boundaries. Lighting is restricted to low pressure sodium.

XIII. Permit Attached to Operator

A change in the quarry operator shall require the Conditional Use Permit to come back to the Planning Commission for review and to the County Commission for re-approval.

XIV. Inspection/Violation/Revocation

The Douglas County Commission, or the appointed representatives thereof, shall have the right, without advance notice, to enter the premises and inspect any aspect of the quarry operation for compliance with the conditions of this permit. Upon entering the premises, the County shall first request an escort by the applicant's representatives. If no escort is available, the inspection may proceed immediately.

The Conditional Use Permit and all conditions attached thereto will be reviewed by the Planning Office and a report forwarded to the County Commission every five (5) years. The applicant will provide a report setting out quarry operations over the five year period and certifying compliance with the Conditions of Approval and Restrictions of Use.

At the times of such review, the County Commission shall review all conditions and Hamm Quarry's compliance therewith. If the County Commission finds that Hamm Quarries has failed to abide by any conditions listed in this document, the Commission may, after such appropriate notice to comply and opportunity to correct non-compliance within a reasonable time prior to taking action on permit revocation, revoke the Conditional Use Permit.

For the first five year review, Hamm Quarries shall provide a property ownership list to the Planning Office which will notice property owners within 1000 feet of the property of the Commission's review process. The Conditional Use Permit will expire in 2033 (30-year time limit), after which the owner/applicant shall be required to seek approval through a new CUP approval procedure.

XV. Applicant/Hamm Quarries

Throughout these Restrictions of Use, the terms Applicant, applicant, Hamm, Hamm Quarries, and similar designations are used interchangeably. All such terms shall refer to N.R. Hamm Quarry, Inc. and its successors and permitted assigns.

HAMM

2015

First Year Operations Report
Douglas, County CUP -12-16-02

Hamm Quarries

609 Perry Place
PO Box 17
Perry, KS 66073



Eudora Neis property CUP requirements CUP -12-16-02; Eudora Quarry # 68 Restrictions of Use

The North ½ of the Southeast ¼ (N ½ of SE ¼) and the South 49 acres of the Northeast ¼ Section 15, Township 13 South, Range 21 East. Containing 129 Acres (more or less)

Legally described as follows: The North Half of the Southeast Quarter of Section 15, Township 13 South, Range 21 East in Douglas County; The South Half of the Southwest Quarter of the Northeast Quarter of Section 15; All of the Southeast Quarter of the Northeast Quarter of Section 15, LESS that part of the East side thereof comprising about ten (10) acres conveyed by Levi Woodard and Sarah A. Woodard, his wife, to Henry S. Crumrine on March 18, 1867, subsequently described as follows: Commencing at the Southeast corner of the Northeast Quarter of Section 15, Township 13 South, Range 21 East; thence North 43 ¼ degrees West 14.47 Chains; thence North 3 ¼ degrees West 5 Chains; thence North 40 ½ degrees East 3 Chains; thence North 60 degrees East 2.43 Chains; thence East on the Quarter Section line 4.44 Chains to the Section line; thence South on the Section line 80 rods to place of beginning; and LESS the following, containing one acre, more or less; Beginning at a point in the Northwest corner of the West Three-Fourths of the Southeast Quarter of the Northeast Quarter of said Section 15; thence running South Ten (10) rods; thence East Sixteen (16) rods; thence North Ten (10) rods; thence West Sixteen (16) rods to the place of beginning.

Location of this property: One mile South, and Two mile East of Eudora, Kansas (East 2400 Road & North 1200 Road) Douglas, County, Kansas.

The following conditions are Restrictions of Use in regard to CUP-12-16-02 approved by Douglas County Board of Commissioners Sept. 02 2009 for which Hamm Inc. will operate a quarry operation.



CUP – 12-16-02

Exhibits

Exhibit – A – Location map

Exhibit – B – Fencing plan

Exhibit – C – Original operation plan approved 7/08/08

Exhibit – D – Current plan of operation

Exhibit – E – Blast monitoring

Exhibit – F - Revised screening

Exhibit - G – Reclamation Plan

Exhibit – H – Table of reviews/approved to date



THIS REPORT OF QUARRYING OPERATIONS IS SUBMITTED PURSUANT TO THE 1 YEAR REVIEW REQUIREMENT FOR CUP 12-16-02, governing Hamm Eudora Quarry #68. Hamm's quarry operations in the area were previously confined to an existing quarry immediately to the south of the CUP site, known as the Petefish Quarry (See Exhibit A). CUP 12-16-02 is conditioned upon reclamation activities at the Petefish Quarry. H

On April 16, 2014, the BoCC approved a request to revise the sequence of cuts #1-4 based upon changes to the reclamation plan for the Petefish Quarry. The originally planned cut sequence is shown on mapping approved 7/8/08 by Douglas County Commission (See Exhibit E) and was based upon the conditions for reclamation at the Petefish Quarry in 2008. Since the time, ongoing quarrying activity at the Petefish Quarry has caused the reclamation plan to change, and so to the preferred location and sequence of cuts proposed in the CUP. The current operation map depicts the revised sequence for cuts #1-4 and the plan for reclamation approved by the BoCC April 16, 2014.

1. On April, 16 2014, the BoCC approved a request that the reclamation plan for east of Coleman Creek in the area of the existing stockpile location on the Petefish Quarry incorporate a five acre intermittent and temporary use portable asphalt plant. This five acre area is limited in use to temporary asphalt production and use as an asphalt materials stockpile area. No quarry operations may take place in this area. Reclamation of the area surrounding the temporary plant shall be completed with all slopes filled and graded to no greater than 3 to 1. Reclamation along the east side of Coleman Creek adjacent to current stockpile area will include a 50 feet wide reclaimed grassed area, graded to slope away from creek. The BoCC approved the request for a temporary asphalt plant site and revised reclamation plan April 16, 2014.

The asphalt plant included construction of a berm to provide screening from public roadway, extending from the current berm on 2400 road, south approximately 700 feet to the intersection, then west on 1200 Rd. that the current entrance gate to temporary asphalt plant site remain in original location was approved by the Douglas Co. Public Works Director and Eudora Township. The berm would be uniformly constructed approximately four feet high and ten to fifteen feet wide. The berm along 2400 road and 1200 road will have a minimum setback of 15 feet inside the fence line. Cedar trees shall be a minimum height of 4 feet tall. The request was administratively approved to plant trees on top in the middle of the newly constructed berm on 2400 road and the entire length of the berm along 1200 road with 20 foot spacing between trees to enhance screening of operations. The berm will be seeded with landowner preferred or K-31 fescue at 150 pounds per acre and annual rye at 25 pounds per acre. Prairie hay or straw mulch shall also be applied at 2 ton per acre and tracked down. Silt fence and or BMP's will be used to control soil erosion until grass is established. The current storm water detention pond would continue to be used.



Hours of Operations

Removal of materials 6 a.m. – 9 p.m. Mon.- Sat.

Production and extraction 7 a. m.- 5 p.m. Mon. - Sat.

No quarry operation shall take place on the following holidays or the days on which such holidays are observed by Kansas State Government. New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Christmas Day and the day immediately following Thanksgiving Day and Christmas Day.

Additional production days

If production demands require additional production and extraction time outside the normal schedule, application for specific additional hours of operations for a specified period may be requested to the county commission. Additional hours of operation for limited periods must be approved by County Commission.

Blasting hours

Blasting will follow recognized standards of the industry. Blasting shall be conducted between noon and 2:00p.m. to the maximum extent possible and allowable by weather and atmospheric conditions.

Blasting between 10:00 a.m. – noon and 2:00 p.m. – 4:00 p.m. shall be allowed occasionally to allow for weather and other conditions for efficient operations of the quarry. Blasting from 8:00 a.m. – 10:00 a.m. and 4:00 p.m. to 5:30 p.m. shall be permitted only in those circumstances when conditions during other allowable periods are not favorable.

Hamm Owned Property Screening Plan

Hamm will incorporate the use of berms and cedar trees to provide screening of quarry activities from 1200 and 2400 roads. Hamm shall construct a uniform berm along North 1200 and the south 700 feet of 2400 road. The purpose of the berms is to provide screening of quarry activities from the view of the roads. Stockpiled overburden in the southwest corner will be leveled, sloped and covered with top soil. Cedar trees of 4Ft. tall minimum height will be planted in uniform spacing of 20 feet intervals to provide additional screening. Berms will be constructed uniformly to a minimum height of 4 feet high and an overall width of ten to 15 feet. Berms were constructed to not less than a 3 to 1 slope on the front and back. Berms will be seeded with landowner preferred or K-31 fescue at 150 pounds per acre and annual rye at 25 pounds per acre. Prairie hay or straw mulch shall be applied at 2 ton per acre and tracked down. Berms shall not be constructed within 15 feet of perimeter fence. Cedar trees will be planted on top in the middle of the berm with 20 feet spacing between trees. Cedar trees shall have a minimum height of 4 feet tall. Silt fence or BMP's will be used to control soil erosion.



Hamm Owned Relocated Quarry Entrance West of Coleman Creek

The relocated main quarry gate entrance has been installed approximately 300 feet east of the west Hamm property line with the approval of the Douglas County Public Works Director and Eudora Township. The entrance gates will provide a minimum opening of 40 foot wide and be secured and locked when quarry staff is not on site. Eudora Township has approved Hamm's provided and installed culvert tube.

Hamm Owned Property, Operations west of Coleman creek

Hamm owned property to the west of Coleman Creek will continue to be used for the duration of the CUP for plant site processes and stockpile area for material extracted from the Neis property. Phase one of the Reclamation Plan for west of Coleman Creek will relocate the quarry entrance gate and scales, and provide for screening of quarry operations. Reclamation of this area will be limited to creating berms and grading slopes. Berms will be seeded with landowner preferred or K-31 fescue at 150 pounds per acre and annual rye at 25 pounds per acre. Prairie hay or straw mulch shall be applied at 25 ton per acre and tracked down. Phase two of the Reclamation Plan for Hamm owned Property to the west of Coleman Creek will include final reclamation as described in the detail below.

Hamm Owned Final Reclamation Plan west side of Coleman Creek

The final Reclamation Plan on Hamm owned property west of Coleman Creek will begin once quarry operations cease on the neighboring property. The elevated fill from current plant site, stockpile area and elevated overburden stockpiled in the southwest corner will be used to fill and construct to no greater than 3 to 1 slopes on the east, west and south quarried areas. The north side slope will be incorporated into reclamation of the Neis property. A pond will be incorporated into reclamation in the northwest half of Hamm owned property. Stockpiled top soil and top soil from current berms will be used to cover the reclaimed area and seeded with landowner preferred or K-31 fescue at 150 pounds per acre and annual rye at 25 pounds per acre. Prairie hay or straw mulch shall be applied a 2 ton per acre and tracked down. Operations mapping depict anticipated contours and the location of pond area. Silt fence or BMP's will be used to control soil erosion. Operations plan depict estimated contour and grading plan for site runoff. The final reclamation and seeding will provide habitat suitable for wildlife and livestock production.

Neis Property

Neis Property Operations Setbacks

Operations setbacks vary around the perimeter of the site based on the submitted site plan. The required setbacks are:



No Blasting Area setbacks of 500 feet from three existing residences shown on site plan.

Operation Setback of 150 feet from the property lines on the north, west and south shown on operation plan.

Operation Setback of 100 feet from the west side of the Coleman creek a tributary running through the site.

There will be no quarry operations east of Coleman creek the tributary running through the site.

Drainage Study

The operation mapping provides for natural drainage to be unaffected by proposed work. Berms that could impede flow of runoff shall be constructed with 45 degree cuts thru the berm. This method would still providing screening without impeding natural runoff flow.

Neis Property Erosion Control

Hamm will use BMPs to prevent erosion during construction until grass is established. Silt fencing will be the primary erosion control but with projects being somewhat design built could use a combination of silt fence, rock checks, and biolog in erosion control.

Neis Property Fencing plan

Hamm has built a new fence along the west, north and south property line and repaired the east fence line along 2400 road. The entire property has new or repaired five wire barb wire fence to prevent unauthorized entry. There are two gates one to the west and one to the north to provide ingress and egress for landowner. Gates will be secured and locked with padlock and opened only for landowner access.

Neis Property Screening Plan

Hamm will construct a berm along the west, north and south property line. The natural elevation will enhance screening from the west and north. There are no plans to plant cedar trees for additional screening. There will be two openings in berms one to the west and one to the north to provide ingress and egress for landowner. There will be no berms where Neis property is adjacent to the north boundary of the Hamm owned property /Petefish Quarry

Berms will be constructed in the one hundred and fifty foot setback of property line. Berms will be positioned to not to impede natural flow of storm water runoff. Berms will be constructed with top soil from cuts #1 and 2. Berms will be seeded with landowner preferred or K-31 fescue applied at 150 pounds per acre and annual rye at 25 pounds per acre. Prairie hay or straw mulch shall be applied at 2 ton per acre and tracked down. Berms shall not be constructed within 15 feet of perimeter fence. There shall be no quarry activity east side of Coleman creek. Quarry operations will be screened from the east



due to the thick established standing timber providing screening. Silt fence or BMP's will be used to control soil erosion. Operations plan shows anticipated contour and grading plan for site storm water runoff.

Neis Property Quarrying and reclamation will occur sequentially

The top soil from cut #1 and as needed from cut #2 to be used in construction of the perimeter berms along the west, north and south property lines. The topsoil not used in the construction of berms from cut #2 will be stockpiled as well as the overburden and inter burden from cut #1 will also be stockpiled as shown on operations mapping. Overburden and inter burden from cut #2 will be used in reclamation of cut #1. The topsoil from cut #3 will be used to cover reclaimed area of cut #1. This process will be continued as additional cuts are mined. Stockpiled overburden and inter burden will be used in reclamation of the final mined cut. Stockpiled top soil and top soil from berms will be used in final reclamation and will be seeded with landowner preferred or K-31 fescue at 150 pounds per acre and annual rye at 25 pounds per acre. Prairie hay or straw mulch shall be applied at 2 ton per acre and tracked down. Currently there are no plans to develop waters features within the reclamation of cuts #1 - 4. The final reclamation will consist of all slopes graded to no greater than 3 to 1. Stockpiled overburden and stockpiled top soil will be seeded to prevent erosion. Silt fence or BMP's will be used to control soil erosion until grass is established. Hamm will maintain 100 feet set back along the west side of Coleman Creek. There will be no quarry activity east of Coleman Creek. The current storm water detention pond located on Hamm owned property and shown on operations mapping will continued to be used. The reclamation will incorporate grass for livestock production and or hay pasture.

Reclamation Bond

Hamm will provide a propose reclamation plan for Hamm owned property of which has been mined and a security bond to cover reclamation cost for Hamm owned property. Attached is a letter from the Kansas Department of Agriculture Mined Land Reclamation Program stating that Hamm has Reclamation Bond covering acres of disturbed land.

Westar Transmission Power Line

A Westar transmission line runs through the northern half of the property from east to west. Westar has a 100 foot easement, 50 feet from the center of poles. At this current time Hamm will not perform any

operations other than constructing a road through the 100 foot easement to gain access to the reserves north of transmission line. Should Hamm request approval from Westar to mine in the 100 foot easement. Hamm will notify Douglas County Planning Office prior to any activity.

Designated Township haul route



The designated township haul route shall be restricted to west on N 1200 road to County Route 1061.

North 1200 Haul Road Improvements

All conditions have been met and approved by Douglas County Public Works Office for improvements on North 1200 road. Attached is a copy of completed construction letter from Douglas County Public Works also on record with Douglas Co.

Township road maintenance

Hamm shall periodically supply rock and dust control for maintenance of N 1200 township road to Douglas County 1061 during periods of quarry activity.

County road fee

Hamm shall pay Douglas County a fee of 10 cents per ton for rock hauled from the permitted property. The fee per ton amount will be indexed every year based on the Consumer Price Index for all urban consumers-all items. Funds from the fee shall be deposited by Douglas County in an account to be used by Public Works to assist in the maintenance of County Roads used by trucks hauling rock from the quarry.

Regulatory Permits

Currently all crushing operations and stockpiling and weighing activities will be performed on Hamm owned property. Hamm is requesting to be approved to incorporate a 5 acre area on Neis property as increased stockpile area for quarry operations. Hamm is requesting that this additional stockpile area be allowed to be reclaimed at the time final reclamation of Hamm owned property is completed. Explosive storage is currently located on Hamm owned property. Hamm will provide at county's request a copy of all required permits and or Bonds for future operations.

Pre-blast Survey and Blast Monitoring

Vibra-Tech has performed pre-blast surveys for residents within one half mile radius of the Neis property under lease with Hamm Inc. prior to Hamm's initial blast. Vibra-Tech also provided seismographs and monitoring of the initial blast at all residents within one half mile of initial blast location. Vibra-Tech has provided their professional advice in the placement of seismographs and has continued to monitor all blasts performed by Hamm. Vibra-Tech has provided a monthly analysis of all blasting for inspection at Hamm's office.



Hydrologic Study

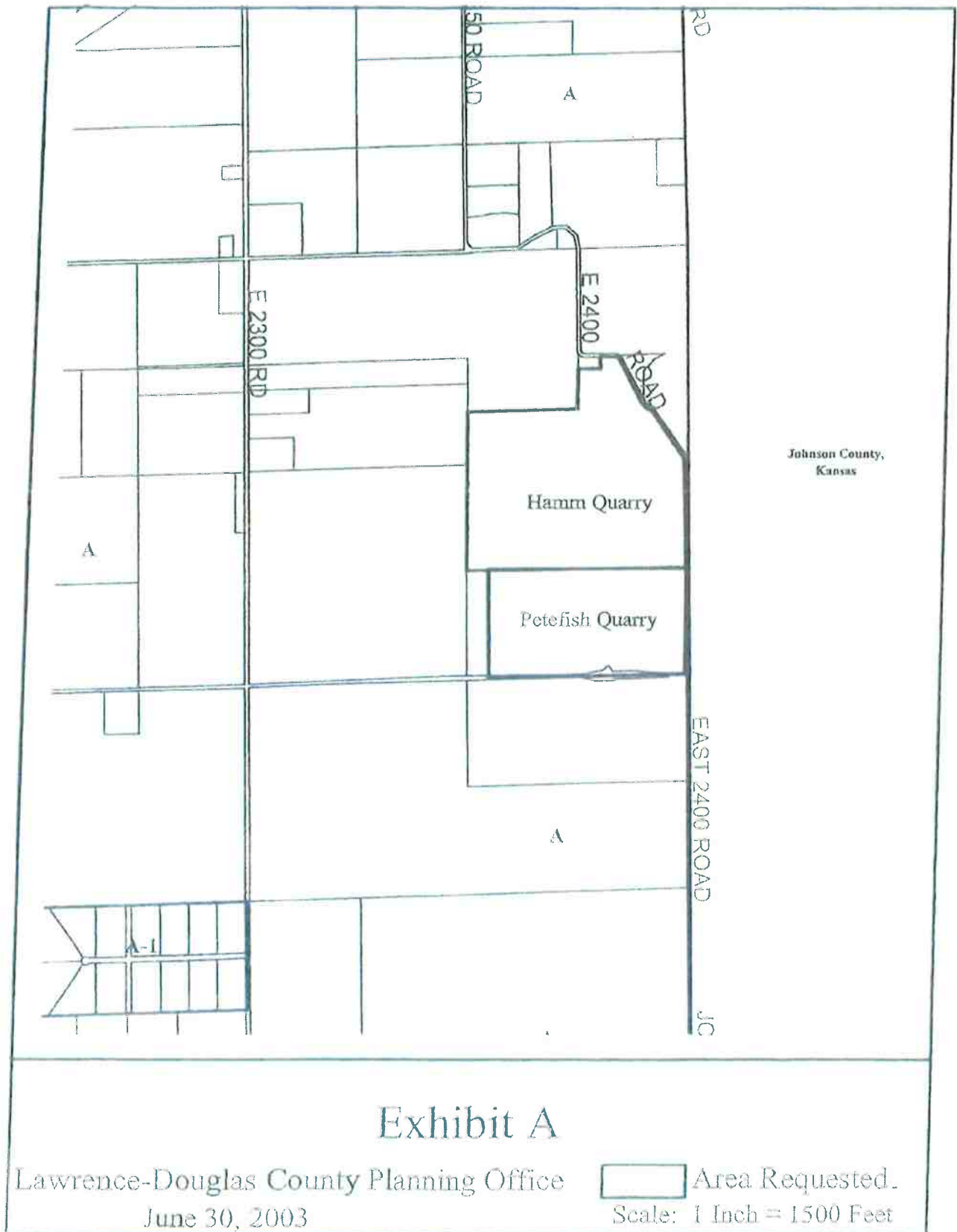
A pre-blast survey of springs was conducted by Quad States Services Inc. Attached is a copy of the survey as well on record with Douglas Co.

Estimated Volumes

Volumes will vary from year to year due to the market demand. Hamm estimates volumes between 250,000 and 600,000 ton annually. Hamm has produced 175,000 tons within the last year from Neis lease.

Communication with Pubic Officials

Once commencement of operations began on The Neis property, Hamm communicated with Douglas Co. Public Works Director, Eudora City, and School officials on traffic controls on County roads during quarry activity.



Eudora Fencing Plan

Hamm Quarry

Cup #12-16-02



The BoCC approved this fencing plan on April 16, 2014. The existing Hamm owned property just south of the Neis leased property is secured with 5 stranded barb wire and lockable gates, on the south, east and west property lines. The Neis property is secured on the north, east and west property lines with 5 strand barb wire fence with lockable gating. There is no fence on the border between Hamm owned and leased Neis property line. The new fence encompasses the entire site on all 4 sides providing a secured boundary around the entire perimeter of the area.

Exhibit B

NR HAMM QUARRY INC.

REVISED PLAN OF OPERATION AND SCREENING

HAMM, INC.

400 North Ridge
P.O. Box 1001
Eudora, KS 66025-0101

AMAL
BARNES
2015 PAVING
10101 PAVING

HAMM, INC. NEIS QUARRY #68 PLAN OF OPERATIONS EUDORA, KS

Revisions		
No.	Date	Description

**HAMM
INC.**

Date: 10/1/2014 Drawn By: CH

Checked By: Checked By: AS

Sheet Title: Operations Report Q#68

Sheet Number: 1 OF 2

Site: Hamm Quarry #68, Eudora, Kansas

Prepared By: Hamm, Inc.

Legal Description

The North 1/4 of the Southeast 1/4 (N 1/4 of SE 1/4) and the South 1/4 of the Northeast 1/4 (S 1/4 of NE 1/4) of Section 15, Township 13 South, Range 21 East, Containing 1.20 Acres (more or less).

Legally described as follows: The North 1/4 of the Southeast Quarter of Section 15, Township 13 South, Range 21 East in Douglas County, The South 1/4 of the Northwest Quarter of the Northeast Quarter of Section 15 (SW 1/4 of NE 1/4) of the Southeast Quarter of Section 15 (SW 1/4 of NE 1/4) that part of the East side thereof comprising about 120 acres conveyed by Levi Woodard and Sarah A. Woodard, his wife, to Henry S. Gynther on March 18, 1967, subsequently described as follows: Commencing at the Southeast Corner of the Northeast Quarter of Section 25, Township 13 South, Range 21 East; thence North 45 1/2 degrees West 14.47 Chains; thence North 3 1/2 degrees West 5 Chains; thence North 80 1/2 degrees East 2.43 Chains; thence East on the Quarter Section line 1.44 Chains to the Section line; thence South on the Section line 39 rods to place of beginning and 1/4 of the following, containing one acre, more or less, beginning at a point in the Northwest corner of the West 1/4 of the Southeast Quarter of the Northeast Quarter of said Section 15; thence running South 70 1/2 degrees East 150 rods; thence North 70 1/2 degrees East 150 rods; thence West 150 rods to the place of beginning.

1. Quarry operations on this site shall consist of any the following:

- Removal of overburden and the extraction and ascending of limestone utilizing a suitable plant and equipment.
- Stockpiling of topsoil, overburden, and limestone.
- Transportation and hauling of limestone and materials.
- Reclamation of the site.
- Blasting operations.

2. No more than 30 acres may be open, mined, and extracted from at any one time on this quarry site, exclusive of the stock pile. No more than 10 acres shall be open, mined, and extracted from in a subsequent phase until reclamation is complete in the previous phase.

3. Hours of operation:

- Removal of materials from 6 AM to 3 PM, Mon - Sat.
- Production and extraction 7 AM to 3 PM, Mon - Sat.
- Blasting: Blasting shall be conducted between noon and 2 PM to the maximum extent possible and allowable by weather and atmospheric conditions.
 - Blasting between 10 AM and noon and 2 PM and 3 PM shall be permitted only in those circumstances when conditions during other allowable periods are unfavorable.
 - Blasting from 3 AM to 10 AM and 4 PM and 5 PM shall be permitted only in those circumstances when conditions during other allowable periods are unfavorable.
- No quarry operations shall take place on the following holidays or the days on which such holidays are observed by Kansas State Government: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the day immediately following Thanksgiving Day, and Christmas Day.
- If production demand requires additional production and extraction time outside the normal schedule, application for specific additional hours of operation for a specified period may be requested to the County Commission. Additional hours of operation for limited periods must be approved by the County Commission.

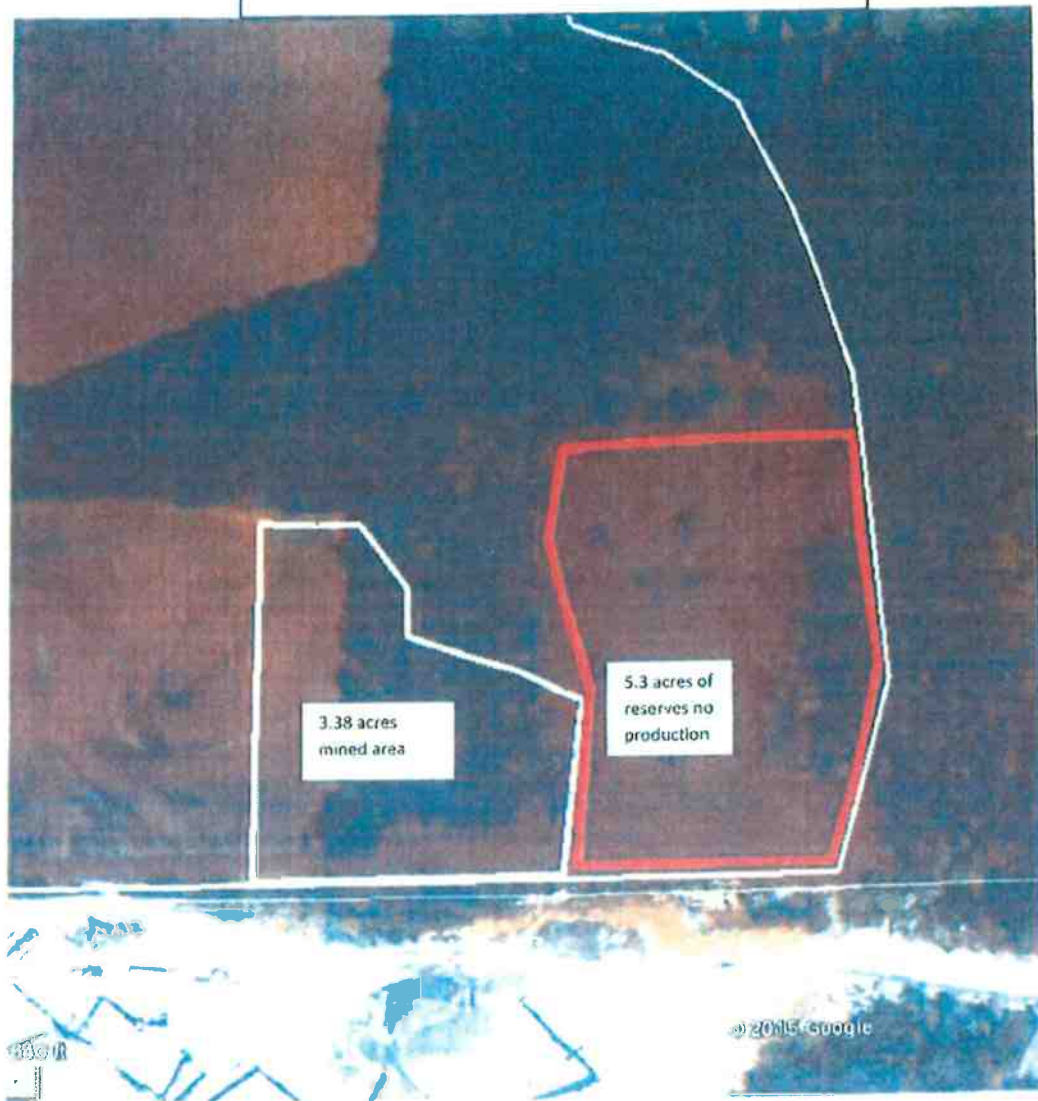
4. Quarrying and reclamation will occur sequentially. The topsoil from the first cut, and as needed from the second cut, will be used in the construction of the perimeter berm along the west and north property lines. The topsoil not used in the construction of the berm from the 2nd cut will be stockpiled as well as the overburden and interburden from cut 1. Overburden and interburden from cut 2 will be used in reclamation of cut 1 area. The topsoil from cut 3 will be used to cover reclaimed area of cut 1. This process will continue as additional cuts are mined.

Refer to the operation and reclamation reports for more detailed operations information.

Hamm is making the request to be permitted to incorporate an area in cut 1 and cut 2 consisting of approximately 5 acres to be used for the purpose of stockpiling produce products due to additional products that Hamm is currently producing in addition to normal produced products. This area is currently permitted to be quarried and reclaimed. The area has been filled and leveled to the elevation of final reclamation. Hamm is requesting that this 5 acre area be permitted to be used for addition stockpile area and final reclamation consisting of coverage of topsoil and seeding be completed when final reclamation of Hamm owned/Petefish property west of Coleman Creek is completed. Mapping indicates the area and road path.

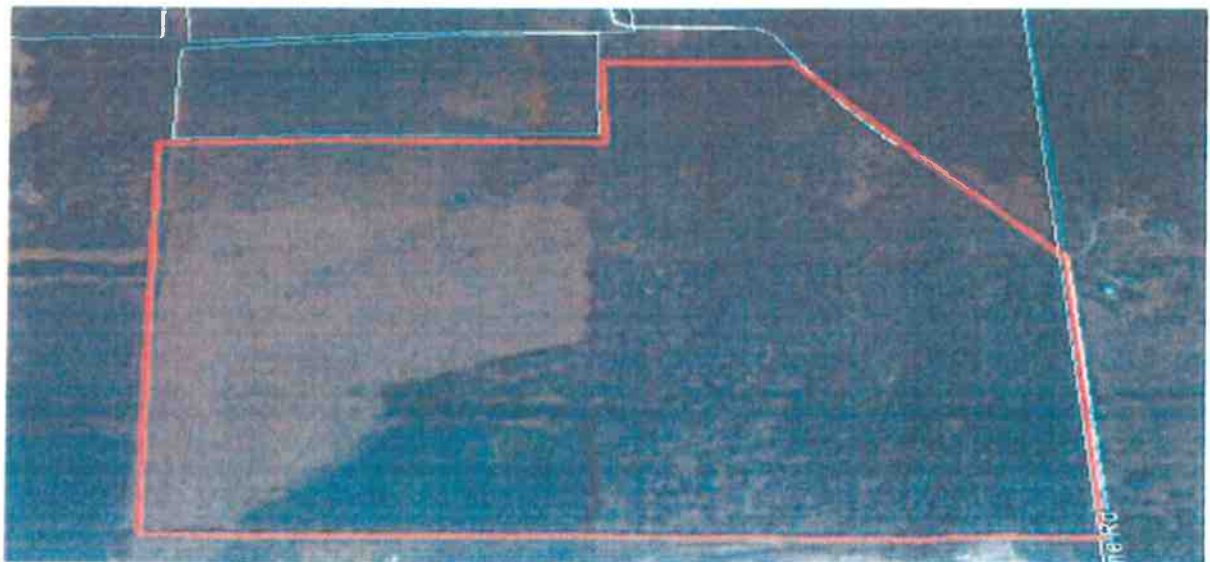
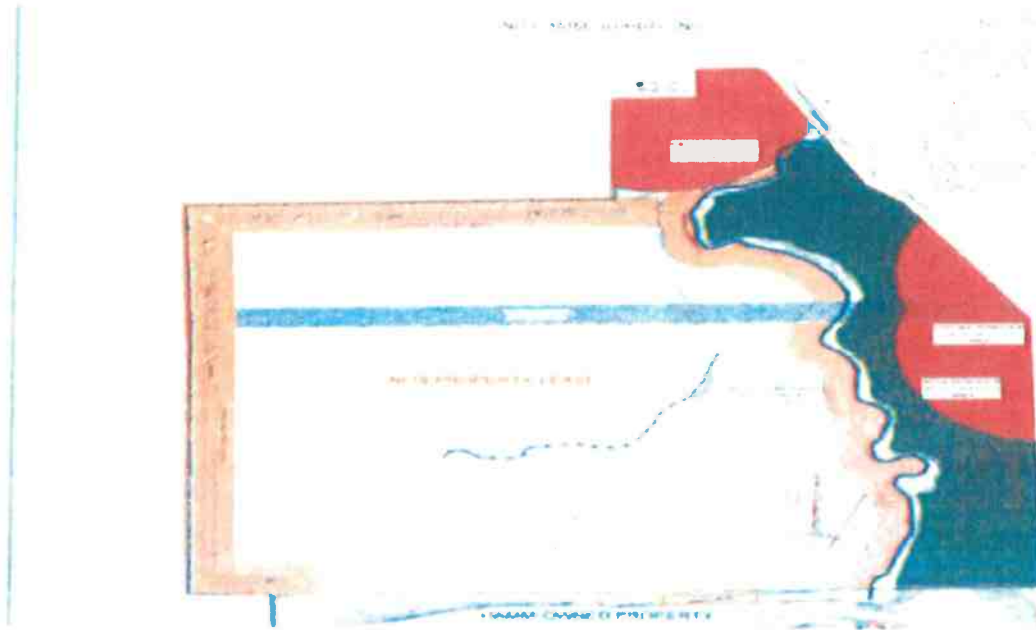
Entrance gate to temporary asphalt site was not Required to be relocated as per Douglas Co. Eng.

Mapping showing the area that has been mined and area **unable** to produce from due to ledge conditions

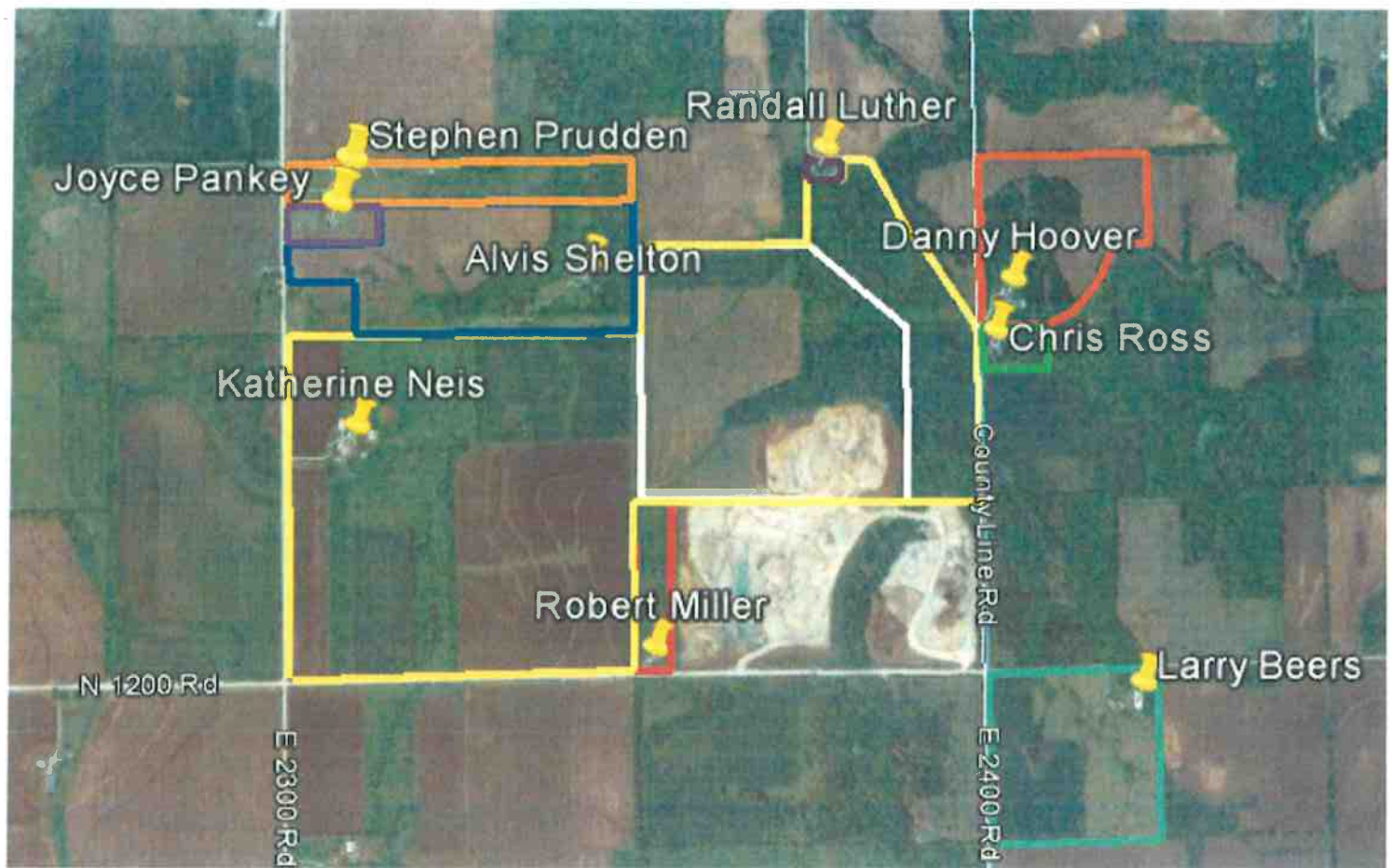


The white outlined area has actually been mined so far approximately 3.38 acres. This area is 509 ft. deep and 429 ft. wide. The ledge to the east and north of the mined area is integrated with mud seams making it unusable to produce from. The initial size of each of the four cuts was to be 400 ft. wide and x 600 feet deep 5.5 acres per cut. The total area of the 4 cuts in phase 1 would disturb 22 acres. The outlined area in red is the area that overburden was removed and replaced. The area was graded so storm water can be diverted to wash pond on Hamm owned property. The outer edge of this area has been covered with top soil and seeded to prevent erosion. We are still in phase 1 with not being able to produce from cut 1 due to ledge conditions in volume of area we would be in cut 2 but with volume of crushed tons we would still be in cut 1.

Neis lease border and sequence of cuts 1-4

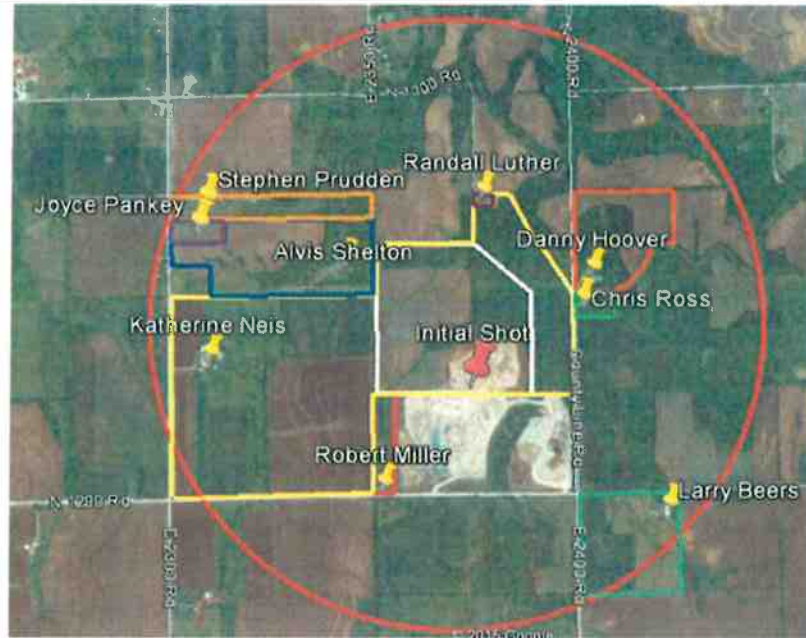


New Exhibit F Revised sequence of cuts
1-4 approved by BoCC April 16, 2014



Residents within a 1/2 mile of the Neis leased property that a preblast survey was provided to.

Neighboring Properties within ½ mile of Neis Lease Boundaries and ½ Mile within initial blast



Red Circle Represents ½ Mile Radius of the White Outlined Portion of the Neis Property



Green Circle Represents ½ Mile Radius of the initial blast

Robert Miller
2352 N 1200 Road
Eudora, KS

Alvis Shelton
1258 E 2300 Road
Eudora, KS

Katherine Neis
1232 E 2300 Road
Eudora, KS

Randall Luther
1277 E 2400 Road
Eudora, KS

Vibra-tech monitored the initial blast and is continuing to monitor all ongoing blasts. Blast Analyses are available Upon request or in the Hamm Office.

Larry Beers
40395 W 119th Street
Eudora, KS

Chris Ross
11515 County Line Road
Eudora, KS

Danny Hoover
11499 County Line Road
Eudora, KS



VibraTechinc.com

603 N. Jefferson Street
Florissant, MO 63031

Phone 314.837.7182
Fax 314.837.0450

June 19, 2014

Mr. John Strome
Hamm, Inc.
609 Perry Place
Perry, KS 66073

RE: Eudora Kansas Quarry – Pre-Blast Inspections
Eudora, Kansas

Dear Mr. Strome:

The following structures were inspected in preparation for blasting at N.R. Hamm's Eudora, Kansas quarry operation. The inspections were performed from March 5, 2014 - June 6, 2014. A list of the structures is attached to this letter.

A complete inspection involves an audio description of interior conditions and defects, supplemented with digital photographs. The survey is performed room by room and wall by wall. Exterior conditions and defects are documented by digital photographs, including a photo mosaic. An exterior only inspection consists of digital photographs of exterior conditions and defects, including a photo mosaic. The inspection data will be retained in our files for possible future use.

We appreciate the opportunity to provide you with our services. Please contact us if we can be of further assistance.

Sincerely,

VIBRA-TECH ENGINEERS, INC.

A handwritten signature in black ink, appearing to read "E. Lee Frea Jr.", written over the printed name.

Ernest Lee Frea, Jr.
Operations Manager

Exhibit E

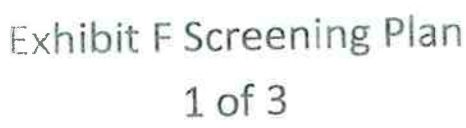
Page 3 of 4

N.R. Hamm
Eudora, KS Quarry
Completion List

#	Property Owner	Address	City	Status
1	Robert Miller / Nicole Parks	2352 N. 1200th Road	Eudora, KS 66025	Refused
2	Alvis Shelton	1258 E. 2300th Road	Eudora, KS 66025	No response
3	Katherine Neis	1232 E. 2300th Road	Eudora, KS 66025	Exterior Only
4	Randall Luther	1277 E. 2400th Road	Eudora, KS 66025	No response
5	Larry Beers	40395 W. 119th Street	Eudora, KS 66025	No response
6	Tim & Judy Ross	11515 County Line Road	Eudora, KS 66025	Complete
7	Danny Hoover	11499 County Line Road	Eudora, KS 66025	No response
8	Stephen Prudden	1274 E. 2300th Road	Eudora, KS 66025	Refused
9	Joyce Pankey	1266 E. 2300th Road	Eudora, KS 66025	Complete

Exhibit E

Page 4 of 4

[illegible]

Approval to modify screening plan to the east and west side of Coleman Creek.

Hamm was approved to modify its screening plan in regards to placement of the 4 foot tall cedars trees planted on 20 foot spacing at the base of the berm. Hamm will plant the 4 ft. tall cedar trees in middle on the top of the berm. The berm will start 700 feet north of the intersection running along 1200 road and 2400 road east to Coleman Creek, areas which elevation of roadway provides screening of activities from public view will not require berm. The berm will remain in place as part of the final reclamation of the property. This modification to the screening plan will enhance the screening of activities when this site hosts a temporary asphalt plant. The screening effect of the trees will be realized years sooner than being planted at the base of the berm. The County Engineer has revisited the need to relocate the entrance onto the property east of Coleman Creek and made the determination that the entrance need not be relocated.

Hamm was approved to modify the screening berm beginning at the southeast corner of the retail sales area west of Coleman Creek proceeding west and south to the entrance on 2400 road. The stockpile area elevation is 20 foot higher than 2400 Rd. providing screening of stockpile activity. Hamm has installed a concrete barrier wall along the elevated stockpile area east of new quarry entrance. This request is a result of safety concerns of traffic entering and existing quarry. Cedar trees of 4 foot height will be planted on 20 foot spacing on the outside of the barrier wall beginning at the southeast corner and proceeding west to the entrance onto 2400 road. The screening berm west of the relocated entrance road will begin at the entrance gate proceeding west up the elevated screening area. Cedar trees of 4 foot height will be planted on 20 foot spacing beginning at the base of the berm located at the entrance gate proceeding west up and on top of the elevated screening area. The revised screening plan will produce enhanced screening of quarry activities from public view.

Exhibit F Screening Plan

Page 2 of 3

Elevated screening area

10H

Elevated retail area

Quarry Entrance

GATE

10ft

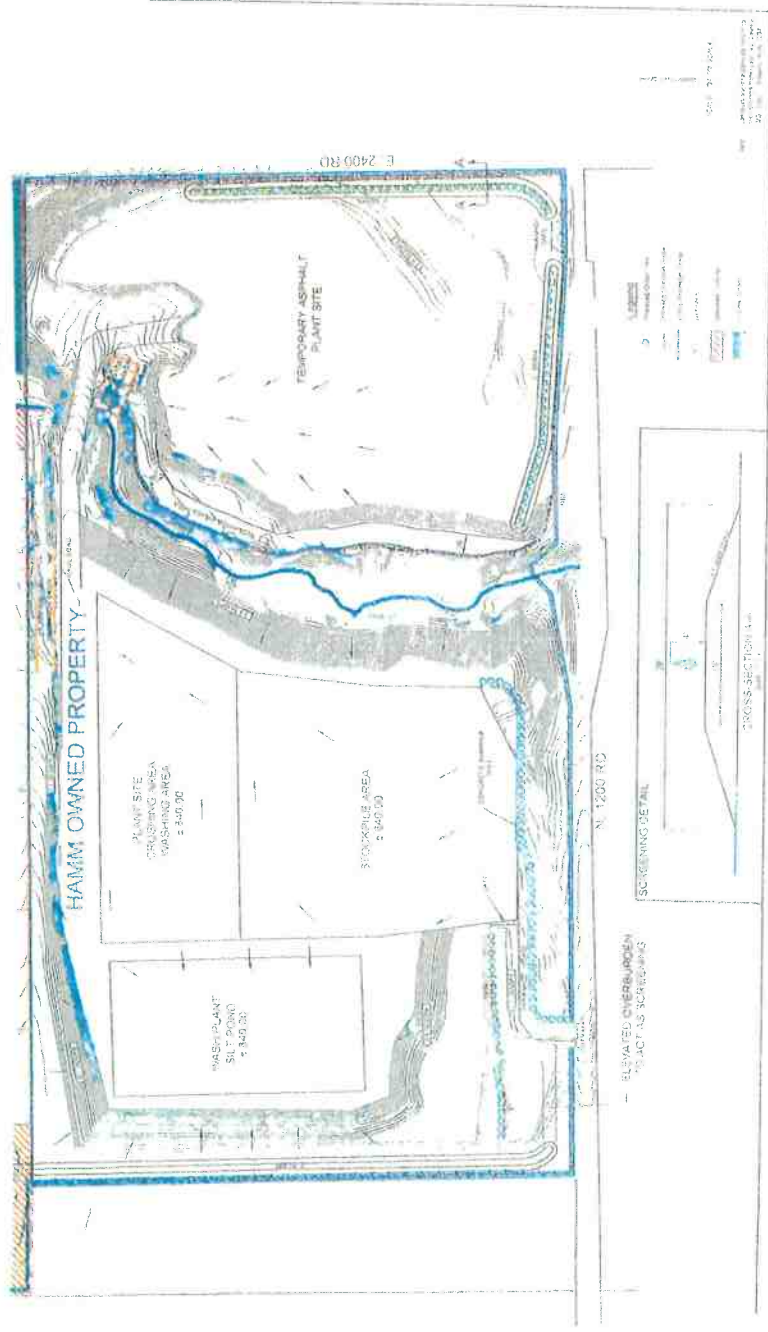
Access Roadway

Barrier Wall

5 ft above roadway

Fence line

N. 1200 RD



OPERATIONS LAYOUT

Legend:

- Proposed Development
- Existing Development
- Proposed Access Road
- Proposed Access Road
- Proposed Access Road
- Proposed Access Road

The map shows a large area with a river or stream flowing through it. The river is labeled 'River' and 'Proposed Access Road'. The map includes various labeled areas such as 'Proposed Development', 'Existing Development', 'Proposed Access Road', 'Proposed Access Road', 'Proposed Access Road', and 'Proposed Access Road'. The map is oriented with North at the top.

Exhibit G

SCREENING DETAIL

[illegible]