APPENDIX I

The following site data forms are designated as "open sites; not sampled." The sites described herein are depicted on the county materials maps as a "●".

LEGEND

--- Fence

= Trail or lane

++++ Railroad

----- Road

--- Hedge or trees

--- Major streams

--- Intermittent streams

--- Pond or lake

Farm site

Open materials site

Prospective materials site

Center of section

Cemetery

School

Church

Town or city
**Material Survey Report**

**Site No.** LS-1  
**Date** June, 1966  
**Material** Limestone  
**County** Osage  
**Location** NW¼, NE¼ Sec. 16 Twp. 15S Range 14E  
**Owner** Riley J. Sage  
**Burlingame, Kansas**  
**Nature of Deposit** Dry  
**Accessibility** Fair  
**Status of Site** Open site; not sampled

### Exploration Data

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<th>Test Hole</th>
<th>Material at Bottom of Hole</th>
<th>Depth of Overburden</th>
<th>Depth of Material</th>
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### Correlation Data

**Geological Age** Pennsylvanian  
**Geological Source** Bern Limestone  
**Material Similar To**  
**Specific Gravity (Sat.)** (Dry)  
**Los Angeles Wear**  
**Absorption** Soundness  
**Wt. Co.Ft.** Str. Ratio  
**Remarks** Plate I

Scale: 1" = ¼ Mile
MATERIAL SURVEY REPORT

CG-2

Site No. ___________________ Date ________________

TT

June, 1966

Material Chert Gravel County Osage

Loc. SW ¼, NW ¼ Sec. 11 Twp. 14S Range 14E

Owner Flora Patterson Address Burlingame, Kansas

Nature of Deposit Dry Accessibility Fair

Status of Site Open site; not sampled

EXPLORATION DATA

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CORRELATION DATA

Geological Age Pliocene (?)

Geological Source Tertiary Terrace

Material Similar To

Specific Gravity (Sat.) (Dry)

Los Angeles Wear

Absorption Soundness

Wt. Cu. Ft. Str. Ratio

Remarks Plate I

Scale: 1" = ¼ Mile
MATERIAL SURVEY REPORT

LS-3
Site No. Fr Date June, 1966

Limestone Material
Osage County

Location SW¼, NE¼ Sec. 11 Twp. 14S Range 14E

Mellbern Sjogren & Sam Sjogren Owner Name
Carbondale, Kansas Address

Nature of Deposit Dry
Accessibility Poor

Status of Site Open site; not sampled

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CORRELATION DATA

Geological Age Pennsylvanian
Geological Source Reading Limestone

Material Similar To

Specific Gravity (Sat.) (Dry)

Los Angeles Wear

Absorption Soundness

Mt. Co.Ft. Str. Ratio

Remarks Plate I

Scale: 1" = ¼ Mile
MATERIAL SURVEY REPORT

CG-4
Tt

Site No. Date: June, 1966

Material: Chert Gravel
County: Osage

Location: SE 1/4, SE 1/4 Sec. 11 Twp. 14S Range 14E

Owner: James N. Havens, et ux
Address: Carbondale, Kansas

Nature of Deposit: Dry
Accessibility: Fair

Status of Site: Open site; not sampled

EXPLORATION DATA

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CORRELATION DATA

Geological Age: Pliocene(?)

Geological Source: Tertiary Terrace

Material Similar To: 

Specific Gravity (Sat.): (Dry)

Los Angeles Wear

Absorption

Soundness

Wt. Cu.Ft.

Str. Ratio

Remarks: Plate I

Scale: 1" = ¼ Mile
MATERIAL SURVEY REPORT

LS-5

Fb

Site No. __________________________ Date ________________

Limestone

County Osage

Location NE 1/4, NW 1/4 Sec. 12 Twp. 15S Range 14E

Owner Elma Dubois Burlingame, Kansas

Nature of Deposit Dry

Accessibility Fair

Status of Site Open site; not sampled

EXPLORATION DATA

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CORRELATION DATA

Geological Age Pennsylvanian

Geological Source Berm Limestone

Material Similar To

Specific Gravity (Sat.) (Dry)

Los Angeles Wear

Absorption Soundness

Wt. Cu.Ft. Str. Ratio

Remarks Plate I

Scale: 1" = ¼ Mile
STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

Site No. Pb

Date June, 1966

Material Limestone

County Osage

Location SW 1/4, SE 1/4 Sec. 1

Top 15S Range 14E

Owner Glenn M. Amos, et ux

Address Burlington, Kansas

Nature of Deposit Dry

Accessibility Fair

Status of Site Open site; not sampled

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CORRELATION DATA

Geological Age Pennsylvanian

Geological Source Bern Limestone

Material Similar To

Specific Gravity (Sat.)

(Dry)

Los Angeles Wear

Absorption

Soundness

Mt. Co.Ft.

Str. Ratio

Remarks Plate I

Scale: 1" = 1/4 Mile
MATERIAL SURVEY REPORT

CG-8
Tt

Site No. ____________________ Date ________ June, 1966 ________

Material Chert Gravel
County Osage

Location NW¼, SW¼ Sec. 21 Twp. 14S Range 15E
Owner Rachel Dietrich
Address Carbondale, Kansas

Nature of Deposit Dry
Accessibility Poor

Status of Site Open site; not sampled

EXPLORATION DATA

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CORRELATION DATA

Geological Age Pliocene(?)

Geological Source Tertiary Terrace

Material Similar To

Specific Gravity (Sat.) ____________________ (Dry)

Los Angeles Wear ____________________

Absorption ____________________ Soundness

Mt. Co.Ft. ____________________ Str. Ratio

Remarks Plate I

Scale: 1" = ½ Mile
STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

Site No. CG-9
Date June, 1966
Material Chert Gravel
County Osage
Location SE¼, SW¼ Sec. 22 Twp. 14S Range 15E
Owner Lawrence Oberle
Address Carbondale, Kansas
Nature of Deposit Dry
Accessibility Fair
Status of Site Open site; not sampled

EXPLORATION DATA

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CORRELATION DATA

Geological Age Pliocene (?)
Geological Source Tertiary Terrace
Material Similar To
Specific Gravity (Sat.) (Dry)
Los Angeles Wear
Absorption
Soundness
Wt. Cu Ft.
Str. Ratio
Remarks Plate I

Scale: 1" = ¼ Mile
MATERIAL SURVEY REPORT

CG-10
Tt

Date: June, 1966

Material: Chert Gravel
County: Osage

Location: SW¼, SE¼ Sec. 22 Twp. 14S Range 15E

Henry Oberle
Carbondale, Kansas

Nature of Deposit: Dry
Accessibility: Fair

Status of Site: Open site; not sampled

EXPLORATION DATA

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CORRELATION DATA

Geological Age: Pliocene (?)

Geological Source: Tertiary Terrace

Material Similar To:

Specific Gravity (Sat.) (Dry):

Los Angeles Wear:

Absorption:

Wt. Co. Ft.:

Str. Ratio:

Remarks:
Plate I

Scale: 1" = ¼ Mile
**MATERIAL SURVEY REPORT**

**CG-12**  
**Site No.** Tt  
**Date** June, 1966  
**Material** Chert Gravel  
**County** Osage  
**Location** NE¼, NW¼  
**Sec.** 36  
**Twp.** T14S  
**Range** 15E  
**Owner** Claude S. Mercer, et ux  
**Carbondale, Kansas**  
**Address**  
**Nature of Deposit** Dry  
**Accessibility** Fair  
**Status of Site** Open site; not sampled  

**EXPLORATION DATA**

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**CORRELATION DATA**

**Geological Age** Pliocene(?)  
**Geological Source** Tertiary Terrace  
**Material Similar To**  

**Specific Gravity (Sat.)** (Dry)  
**Los Angeles Wear**  
**Absorption** Soundness  
**Wt. Cu.Ft.** Str. Ratio  
**Remarks** Plate II  

Scale: 1" = ¼ Mile
Material Survey Report

CG-13  
Qt

Site No.   Date       June, 1966
Chert Gravel  Osage
Material  County
Location  Section  Township  Range
NW\(\frac{1}{4}\), SW\(\frac{3}{4}\)  21  15S  16E
Owner
Ellen L. Vincent  Scranton, Kansas
Name  Address
Nature of Deposit  Accessibility
Dry  Fair
Status of Site
Open site; not sampled

Exploration Data

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Correlation Data

Geological Age  Pleistocene
Geological Source  Quaternary Terraces

Material Similar To

Specific Gravity (Sat.)  (Dry)

Los Angeles Wear
Absorption  Soundness

Wt. Co. Ft.  Str. Ratio

Remarks  Plate II

Scale: 1" = \(\frac{1}{4}\) Mile
MATERIAL SURVEY REPORT

CG-14

Tt

June, 1966

Site No. Date

Chert Gravel County

Material Osage

Location Sec. 5

SE¼, NE¼ Twp. 17S Range 14E

A. N. Oser Osage City, Kansas

Owner Address

Nature of Deposit Dry Accessibility Fair

Status of Site Open site; not sampled

EXPLORATION DATA

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CORRELATION DATA

Geological Age

Pliocene (?)

Geological Source

Tertiary Terrace

Material Similar To

Specific Gravity (Dry)

Los Angeles Wear

Absorption

Soundness

Wt. Cu.Ft.

Str. Ratio

Remarks Plate III

Scale: 1" = ¼ Mile
STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

CG-15  
Tt

Site No.  
Date June, 1966

Material Chert Gravel  
County Osage

Location NE 3/4, NE 3/4  
Sec. 3  
Twp. 16S  
Range 16E

Owner Carrie Wischropp  
Lyndon, Kansas

Nature of Deposit  
Dry

Accessibility  
Fair

Status of Site  
Open site; not sampled

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CORRELATION DATA

Geological Age  
Pliocene(?)

Geological Source  
Tertiary Terrace

Material Similar To  

Specific Gravity (Sat.)  
(Dry)

Los Angeles Wear  

Absorption  

Soundness  

Wt. Cu.Ft.  

Str. Ratio  

Remarks  
Plate IV

Scale: 1" = ¼ Mile
MATERIAL SURVEY REPORT

CG-16
Tt

Site No. Date       June, 1966

Material       County       Osage
Chert Gravel

Location       Sec.       Twp.       Range
NW 1/4, NE 1/4       12       16S       16E

Owner
U. S. A. (Pomona Dam)

Nature of Deposit       Accessiblity       Fair
Dry

Status of Site       Open site; not sampled

EXPLORATION DATA

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CORRELATION DATA

Geological Age       Pliocene(?)

Geological Source       Tertiary Terrace

Material Similar To

Specific Gravity (Sat.)       (Dry)

Los Angeles Wear

Absorption       Soundness

Wt. Cu.Ft.       Str. Ratio

Remarks       Plate IV

Scale: 1" = ¼ Mile
STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

Site No. LS-17   Date  June, 1966

Material Limestone

County Osage

Location SW\textsubscript{4}, SW\textsubscript{2} Sec. 18 Twp. 16S Range 17E

Owner U.S. A. (Pomona Dam)

Nature of Deposit Dry

Accessibility Good

Status of Site Open site; not sampled

EXPLORATION DATA

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CORRELATION DATA

Geological Age Pennsylvanian

Geological Source Lecompton Limestone

Material Similar To

Specific Gravity (Sat.) (Dry)

Los Angeles Wear

Absorption Soundness

Wt. Co. Ft. Str. Ratio

Remarks Plate IV

Scale: 1" = ½ Mile
MATERIAL SURVEY REPORT

CG-18
Tt

Date: June, 1966

Material: Chert Gravel
County: Osage

Location: SW¼, SW¼ Sec. 5, Tp. 18S, Range 14E

Owner: Clarence J. Small, et ux
Address: Reading, Kansas

Nature of Deposit: Dry
Accessibility: Good

Status of Site: Open site; not sampled

EXPLORATION DATA

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CORRELATION DATA

Geological Age: Pliocene(?)
Geological Source: Tertiary Terrace

Material Similar To:

Specific Gravity (Sat.): (Dry)

Los Angeles Wear:

Absorption:

Soundness:

Wt. Cu.Ft.:

Str. Ratio:

Remarks: Plate V

Scale: 1" = ¼ Mile
STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

CG-19

Tt

Site No.       Date       June, 1966

Material       Chert Gravel

County      Osage

Location       NW¼, NW¼

Sec.       4

Twp.      18S

Range      14E

Owner       Archie G. Linten, et ux

Osage City, Kansas

Address

Nature of Deposit       Dry

Accessibility       Fair

Status of Site       Open site; not sampled

EXPLORATION DATA

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<th>Wash 200</th>
<th>G.F.</th>
<th>L.L.</th>
<th>P.I.</th>
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</table>

CORRELATION DATA

Geological Age       Pliocene (?)

Geological Source       Tertiary Terrace

Material Similar To

Specific Gravity (Sat.)       (Dry)

Los Angeles Wear

Absorption

Wt. Cu.ft.

Str. Ratio

Remarks       Plate V

Scale: 1" = ¼ Mile
MATERIAL SURVEY REPORT

CG-20
Tt

Site No.  

Date  June, 1966  

Material  Chert Gravel  
County  Osage  

Location  NE1/4, NW1/4  
Sec.  9  
Twp.  18S  
Range  14E  

Owner  L. Humphreys  
Name  Osage City, Kansas  
Address  

Nature of Deposit  Dry  
Accessibility  Fair  

Status of Site  Open site; not sampled  

EXPLORATION DATA

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<th>Test Hole</th>
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<th>Percent Retained</th>
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<th>L.L.</th>
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CORRELATION DATA

Geological Age  Pliocene(?)  
Geological Source  Tertiary Terrace  

Material Similar To

Specific Gravity (Sat.)

Los Angeles Wear

Absorption

Soundness

Mt. Cu.Ft.

Str. Ratio

Remarks  Plate V  

Scale: 1" = 1/4 Mile
STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

CG-21
Qt

Site No. Date June, 1966

Material Chert Gravel

County Osage

Location NW^2/4, SE^1/4 Sec. 10 Twp. 18S Range 14E

Owner R. L. Booth

Osage City, Kansas

Name Osage City, Kansas

Accessibility Good

Status of Site Open site; not sampled

EXPLORATION DATA

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CORRELATION DATA

Geological Age Pleistocene

Geological Source Quaternary Terrace

Material Similar To

Specific Gravity (Sat.) (Dry)

Los Angeles Wear

Absorption Soundness

Wt. Cu.Ft. Str. Ratio

Remarks Plate V

Scale: 1" = ¼ Mile
STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

CG-22
Qt

Site No.  

Date  June, 1966  

Material Chert Gravel  

County Osage  

Location NE 1/4, NE 1/4  Sec. 10  

Twp. 18S  Range 14E  

Owner R. L. Booth  Osage City, Kansas  

Status of Site Open site; not sampled  

EXPLORATION DATA

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<th>Material at Bottom of Hole</th>
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CORRELATION DATA

Geological Age Pleistocene

Geological Source Quaternary Terrace

Material Similar To

Specific Gravity (Sat.) (Dry)

Los Angeles Wear

Absorption Soundness

Wt. Cu.Ft. Str. Ratio

Remarks Plate V

Scale: 1" = 8 Mile
MATERIAL SURVEY REPORT

CG-23
Tt

Site No. ______________________ Date June, 1966

Material Chert Gravel County Osage

Location SW 1/4, NW 1/4 Sec. 3 Twp. 18S Range 14E

Owner Brenda Jean Evens Lebo, Kansas

Nature of Deposit Dry Accessibility Good

Status of Site Open site; not sampled

EXPLORATION DATA

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<td>1 1/2 3/4 3/8 4</td>
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CORRELATION DATA

Geological Age Pliocene (?)

Geological Source Tertiary Terrace

Material Similar To ____________________________

Specific Gravity (Sat.) ____________________________ (Dry)

Los Angeles Wear ____________________________

Absorption Soundness ____________________________

Wt. Cu.Ft. Str. Ratio ____________________________

Remarks Plate V

Scale: 1" = 1/4 Mile
MATERIAL SURVEY REPORT

CG-24

Site No. Tt Date June, 1966

Material Chert Gravel County Osage

Location NE1/4, NE1/4 Sec. 11 Twp. 18S Range 14E

Owner Tena Morton Address Osage City, Kansas

Nature of Deposit Dry

Accessibility Fair

Status of Site Open site; not sampled

EXPLORATION DATA

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<th>Percent Retained 1/8</th>
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<th>L.L.</th>
<th>P.I.</th>
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CORRELATION DATA

Geological Age Pliocene(?)

Geological Source Tertiary Terrace

Material Similar To

Specific Gravity (Sat.) — (Dry)

Los Angeles Wear

Absorption

Soundness

Mt. Cu.Ft.

Str. Ratio

Remarks Plate V

Scale: 1" = ¼ Mile
CG-25

Tt

Site No. ____________________________ Date _______ June, 1966 _______

Material Chert Gravel __________ County Osage __________

Location SW 1/4, NE 1/4 __________ Sec. 12 __________ Twp. 18S __________ Range 14E __________

Owner Catherine A. Caraway-See O.E. Williams, Lebo, Kans. __________

Nature of Deposit Dry. Accessibility Good __________

Status of Site Open site; not sampled __________

EXPLORATION DATA

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<th>Percent Retained</th>
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CORRELATION DATA

Geological Age Pliocene(?) __________

Geological Source Tertiary Terrace __________

Material Similar To __________

Specific Gravity (Sat.) (Dry) __________

Los Angeles Wear __________

Absorption Soundness __________

Wt. Cu.Ft. Str. Ratio __________

Remarks Plate V __________

Scale: 1" = ¼ Mile
MATERIAL SURVEY REPORT

CG-26
Tt

June, 1966

Site No. _______________________  Date: __________________________

Material: Chert Gravel  County: Osage

Location: NW¼, SW¼  Sec.: 28  Twp.: 17S  Range: 15E

Owner: Loyd Bartee  Address: Osage City, Kansas

Nature of Deposit: Dry  Accessibility: Good

Status of Site: Open site; not sampled

EXPLORATION DATA

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<th>Depth of Overburden</th>
<th>Depth of Material</th>
<th>Percent Retained 1/2</th>
<th>%/4</th>
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CORRELATION DATA

Geological Age: Pliocene(?)

Geological Source: Tertiary Terrace

Material Similar To: __________________________

Specific Gravity (Sat.) __________________ (Dry) __________________

Los Angeles Wear: ______________________

Absorption: __________________ Soundness: __________________

St. Cu.Ft. __________________ Str. Ratio: __________________

Remarks: __________________

Plate V

Scale: 1" = ½ Mile
STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

CG-27
Tt

Site No. Date  June, 1966

Material Chert Gravel

County Osage

Location NE 1/4, NE 3/4 Sec. 4 Twp. 18S Range 15E

Owner George R. Evans, et al

Lebo, Kansas

Nature of Deposit Dry

Accessibility Fair

Status of Site Open site; not sampled

EXPLORATION DATA

<table>
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<th>Test Hole</th>
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CORRELATION DATA

Geological Age Pliocene(?)

Geological Source Tertiary Terrace

Material Similar To

Specific Gravity (Sat.) (Dry)

Los Angeles Wear

Absorption Soundness

Wt. Cu.Ft. Str. Ratio

Remarks Plate V

Scale: 1" = ¼ Mile
MATERIAL SURVEY REPORT

CG-28

Site No.    Date       June, 1966

TT

Material       County    Osage

Chert Gravel

Location      Sec.     4

Twp.        18S

Range       15E

Owner

George R. Evans, et al

Lebo, Kansas

Nature of Deposit

Dry

Accessibility

Fair

Status of Site

Open site; not sampled

EXPLORATION DATA

<table>
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<th>Material at Bottom of Hole</th>
<th>Depth of Material</th>
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<th>L.L.</th>
<th>P.I.</th>
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CORRELATION DATA

Geological Age

Pliocene (?)

Geological Source

Tertiary Terrace

Material Similar To

Specific Gravity (Sat.)

(Dry)

Los Angeles Wear

Absorption

Soundness

Wt. Cu.Ft.

Str. Ratio

Remarks

Plate V

Scale: 1" = ½ Mile
MATERIAL SURVEY REPORT

CG-29

Site No. ___________________________ Date June, 1966

Material Chert Gravel

County Osage

Location SE_{1/4}, NE_{1/2} Sec. 3 Twp. 18S Range 15E

Owner George R. Wiley

Address Lyndon, Kansas

Nature of Deposit Dry

Accessibility Fair

Status of Site Open site; not sampled

EXPLORATION DATA

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<th>Test Hole</th>
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CORRELATION DATA

Geological Age Pliocene (?)

Geological Source Tertiary Terrace

Material Similar To ________________________________

Specific Gravity (Sat.) __________________________ (Dry)

Los Angeles Wear _____________________________

Absorption _____________________________ Soundness

Wt. Co.Ft. _____________________________ Str. Ratio

Remarks ________________________________

Plate V

Scale: 1" = ¼ Mile
Material Survey Report

CG-30

Site No. Tt  Date June, 1966

Material Chert Gravel  County Osage

Location NE 1/4, NE 1/4  Sec. 30  Twp. 17S  Range 17E

Owner Joe Kitt  See Bob Miller, Lyndon, Kansas

Nature of Deposit Dry  Accessibility Fair

Status of Site Open site; not sampled

Exploration Data

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<th>Depth of Over-Burden</th>
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Sample Data

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Correlation Data

Geological Age Pliocene(?)

Geological Source Tertiary Terrace

Material Similar To

Specific Gravity (Sat.) (Dry)

Los Angeles Wear

Absorption Soundness

Wt. Cu. Ft. Str. Ratio

Remarks Plate VI

Scale: 1" = 1/4 Mile
MATERIAL SURVEY REPORT

CG-31
Tt

Site No.  Date  June, 1966

Material  Chert Gravel  County  Osage

Location  Sec. 20  Twp. 17S  Range 17E

Owner  Mary E. McCow, et al  211 W. 9th, Norfolk, Nebraska

Nature of Deposit  Dry  Accessibility  Fair

Status of Site  Open site; not sampled

EXPLORATION DATA

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CORRELATION DATA

Geological Age  Pliocene (?)

Geological Source  Tertiary Terrace

Material Similar To

Specific Gravity (Sat.)  (Dry)

Los Angeles Wear

Absorption  Soundness

Mile  Cu.Ft.  Str. Ratio

Remarks  Plate VI
APPENDIX II

The following site data forms are designated as "open sites; sampled." The sites described herein are depicted on the county materials maps as a "■".

LEGEND

--- Fence

==== Trail or lane

%%%%%%%% Railroad

--- Road

---- Hedge or trees

\-\-\- Major streams

\-\-\- Intermittent streams

--- Pond or lake

■ Farm site

● Open materials site

Prospective materials site

Center of section

Cemetery

School

Church

Town or city
MATERIAL SURVEY REPORT

LS-32

Site No.       Date       June, 1966
Limestone     County     Osage
Location       Sec.       30  Twp.  14S  Range  14E
Ora Ethel Moore  Burlingame, Kansas
Owner          Name       address
Nature of Deposit  Dry  Accessibility  Good
Status of Site   Open site; sampled

EXPLORATION DATA

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<th>Percent Retained</th>
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CORRELATION DATA

Geological Age  Pennsylvanian
Geological Source  Tarkio Limestone
Material Similarity  Material reported on SHC Form 619
No. 70-41
Specific Gravity (Sat.)  2.62 (Dry)
Los Angeles Wear  25.0(B)
Absorption  3.00  Soundness  0.93
Wt. Cu.Ft.  Plate I  Str. Ratio
Remarks

Scale: 1" = ¼ Mile
STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

LS-33

Site No. 

Date June, 1966 

Material Limestone 

County Osage 

Location SE 1/4, SE 1/4 

Sec. 12 

Tow. 15S 

Range 13E 

Owner Glen M. Buek, et ux 

Address Burlingame, Kansas 

Nature of Deposit Dry 

Accessibility Fair 

Status of Site Open site; sampled 

EXPLORATION DATA

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CORRELATION DATA

Geological Age Pennsylvanian 

Geological Source Tarkio Limestone 

Material Similar To Material produced at site LS-32 

Specific Gravity (Sat.) 2.49, 2.53 (Dry) 2.40, 2.44 

Los Angeles Wear 30.1(A), 26.3(A) 

Absorption 4.01, 3.45 Soundness 0.83, 0.89 

Min. C. P. 90.5 Str. Ratio 

Remarks Plate I Site is abandoned 

Scale: 1" = ¼ Mile
STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

CG-34 Qt

Site No.  Date  June, 1966

Chert Gravel  County  Osage

Location  Sec. 12  Twp. 15S  Range 15E

City of Scranton  Name  Dry

Nature of Deposit  Accessibility  Fair

Status of Site  Open site; sampled

EXPLORATION DATA

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<th>Percent Retained</th>
<th>Depth of Material</th>
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CORRELATION DATA

Geological Age  Pleistocene

Geological Source  Quaternary Terrace

Material Similar To

Specific Gravity (Sat.)  2.53 (Dry)  2.46

Los Angeles Wear  20.0 (B)

Absorption  Soundness  0.95

Mt. Cu.Ft.  Str. Ratio

Remarks  Plate II

Scale: 1" = ¼ Mile
# MATERIAL SURVEY REPORT

**Site No.** LS+35  
**Date** June, 1966  
**Location** NE 1/4, NW 1/4  
**Sec.** 32  
**Twp.** 14S  
**Range** 17E  
**Material** Limestone  
**County** Osage  
**Owner** Natheniel Gruber  
**Address** Overbrook, Kansas  
**Nature of Deposit** Dry  
**Accessibility** Good  
**Status of Site** Open site; sampled

## EXPLORATION DATA

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<th>Depth of Overburden</th>
<th>Percent Retained</th>
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## CORRELATION DATA

**Geological Age** Pennsylvania  
**Geological Source** Ervine Creek Limestone  
**Material Similar To** Material reported on SHC Form 619 No. 70-28  
**Specific Gravity (Sat.)** 2.57 (Dry)  
**Los Angeles Wear** 28.6(B)  
**Absorption** 3.10  
**Soundness** 0.91  
**Wt. Cu.Ft.** Str. Ratio  
**Remarks** Plate II

Scale: 1" = ¼ Mile
STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

LS+36 Pto

Site No. Date June, 1966

Limestone County Osage

Material Location NW 1/4, SW 1/4 Sec. 26 Twp. 15S Range 15E

L. D. Pierce, et ux Lyndon, Kansas

Owner Nature of Deposit Dry Accessiblity Good

Status of Site Open site; sampled

EXPLORATION DATA

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<th>Depth of Over-Burden</th>
<th>Depth of Material 1/2</th>
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<th>Wash 200</th>
<th>G.F.</th>
<th>L.L.</th>
<th>P.I.</th>
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CORRELATION DATA

Geological Age Pennsylvanian

Geological Source Topeka Limestone

Material Similar To

Specific Gravity (Sat.) 2.55, 2.51 (Dry) 2.43, 2.37

Los Angeles Wear 37.1(B) 40.0(B)

Absorption 4.76, 5.85 Soundness 0.77, 0.87

Mt. Cu.Ft. Str. Ratio

Remarks Plate IV

Scale: 1" = 1/4 Mile
**MATERIAL SURVEY REPORT**

**Site No.** LS+37  
**Date** June, 1966  
**Material** Limestone  
**County** Osage  
**Location** NE 1/4, NW 1/4  
**Sec.** 35  
**Twp:** 16S  
**Range:** 15E  
**Owner** R. T. Farnsworth  
**Address** Osage City, Kansas  
**Nature of Deposit** Wet  
**Accessibility** Good  
**Status of Site** Open site; sampled

### EXPLORATION DATA

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<tr>
<th>Test Hole</th>
<th>Material at Bottom of Hole</th>
<th>Depth of Overburden</th>
<th>Percent Retained</th>
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### CORRELATION DATA

**Geological Age** Pennsylvanian  
**Geological Source** Ervine Creek Limestone  
**Material Similar To** Material reported on SHC Form 619  
**No.** 70-42  
**Specific Gravity (Sat.)** 2.59  
**Specific Gravity (Dry)** 2.52  
**Los Angeles Wear** 29.4  
**Absorption** 2.65  
**Soundness** 0.93  
**M. Co.Ft.**  
**Str. Ratio**  
**Remarks** Plate IV

Scale: 1" = ¼ Mile
STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

LS-38

Site No.  Fdo  Date  June, 1966
Material  Limestone  County  Osage
Location  NE¼, SE¼  Sec. 12  Twp. 16S  Range 15E
Owner  W. C. Neihart, et ux  Lyndon, Kansas
Nature of Deposit  Dry  Accessibility  Good
Status of Site  Open site; sampled

EXPLORATION DATA

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<th>Test Hole</th>
<th>Material at bottom of Hole</th>
<th>Depth of Overburden</th>
<th>Percent Retained</th>
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</thead>
<tbody>
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CORRELATION DATA

Geological Age  Pennsylvanian
Geological Source  Qzawkie Limestone
Material Similar To  Material reported on SHC Form 619
No.  70-48
Specific Gravity (Sat.)  2.45  (Dry)  2.32
Los Angeles Wear
Absorption  5.60  Soundness  0.97
Wt. Cu.Ft.  Str. Ratio
Remarks  Plate IV

Scale: 1" = ¼ Mile
### MATERIAL SURVEY REPORT

- **Site No.**
- **Date:** June, 1966
- **Material:** Limestone
- **County:** Osage
- **Location:** NE ¼, NW ¼ Sec. 4 Twp. 17S Range 17E
- **Owner:** W. M. Lacey
- **Address:** Quenemo, Kansas
- **Nature of Deposit:** Dry
- **Accessibility:** Good
- **Status of Site:** Open site; sampled

### EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test Hole</th>
<th>Material at bottom of Hole</th>
<th>Depth of Overburden</th>
<th>Depth of Material</th>
<th>Percent Retained 1/2</th>
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<th>100</th>
<th>Wash 200</th>
<th>G.F.</th>
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</table>

### CORRELATION DATA

- **Geological Age:** Pennsylvanian
- **Geological Source:** Kereford Limestone
- **Material Similar To:** Material reported on SHC Form 619 No. 70-49
- **Specific Gravity (Sat.):** 2.54
- **Specific Gravity (Dry):** 2.47
- **Los Angeles Wear:** 28.9 (B)
- **Absorption:** 2.98
- **Soundness:** 0.97
- **Wt. Cu. Ft.:**
- **Str. Ratio:**

**Remarks:** Plate IV

Scale: 1" = ¼ Mile
**MATERIAL SURVEY REPORT**

**LS-40**

**Site No.** __________ **Date** June, 1966

**Material** Limestone **County** Osage

**Location** Center NE ¼ Sec. 22 **Twp.** 16S **Range** 17E

**Owner** Victor R. or Gordon E. Hughes **Wellsville, Kansas**

**Nature of Deposit** Dry **Accessibility** Poor

**Status of Site** Open site; sampled

## EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test Hole</th>
<th>Material at bottom of Hole</th>
<th>Depth of Overburden</th>
<th>Depth of Material</th>
<th>Percent Retained 1 1/2</th>
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<th>Wash 200</th>
<th>G.F.</th>
<th>L.L.</th>
<th>P.I.</th>
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## CORRELATION DATA

**Geological Age** Pennsylvanian

**Geological Source** Plattsough Limestone

**Material Similar To** Material reported on SHC Form 619 No. 70-40

**Specific Gravity (Dry)** 2.58

**Los Angeles Wear** 36.3 (A)

**Absorption** 2.60 **Soundness** 0.95

**Wt. Cu.Ft.** **Str. Ratio**

**Remarks** Plate IV Site abandoned

---

**Scale:** 1" = ¼ Mile
MATERIAL SURVEY REPORT

LS-41
Fok

Site No. ______________________ Date June, 1966

Material Limestone
County Osage

Location NE 3, NE 4 Sec. 15 Twp. 16S Range 17E

Owner George M. Ramshaw
Name Quenemo, Kansas
Address

Nature of Deposit Dry
Accessibility Good

Status of Site Open site; sampled

EXPLORATION DATA

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<th>Test Hole</th>
<th>Material at Bottom of Hole</th>
<th>Depth of Overburden</th>
<th>Percent Retained</th>
<th>Depth Material</th>
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CORRELATION DATA

Geological Age Pennsylvanian

Geological Source Kereford Limestone

Material Similar To Material reported on SHC Form 645
No. 17804

Specific Gravity (Int.) 2.56  (Dry) 2.49

Los Angeles Wear

Absorption 2.61  Soundness 0.96

Wt. Cu.Ft.  ____________  Str. Ratio  ____________

Remarks Plate IV

Scale: 1" = ¼ Mile
STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

CG-42
Tt

Site No.  Date       June, 1966
Material  Chert Gravel
County  Osage
Location  SE\(\frac{1}{4}\), NW\(\frac{1}{4}\) Sec. 27  Twp. 17S  Range 14E
Owner  Verda Dawson
Accessibility  Fair
Nature of Deposit  Dry
Status of Site  Open site; sampled

EXPLORATION DATA

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<th>Percent Retained</th>
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CORRELATION DATA

Geological Age  Pliocene(?)
Geological Source  Tertiary Terrace
Material Similar To  
Specific Gravity (Sat.)  2.56 (Dry)  2.51
Los Angeles Wear  19.5(A)
Absorption  Soundness  1.00
Mt. Cu.Ft.  Str. Ratio  
Remarks  Plate V

Scale: 1" = \(\frac{1}{4}\) Mile
Material Survey Report

Site No. LS+43  
County Osage  
Location SW 1/4, NW 1/4 Sec. 11 Twp. 18S Range 14E  
Owner Ida L. Booth  
Address Osage City, Kansas  
Nature of Deposit Dry  
Accessibility Good  
Status of Site Open site; sampled

Exploration Data

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<th>Depth of Material</th>
<th>Percent Retained</th>
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Correlation Data

Geological Age Pennsylvanian
Geological Source Topeka Limestone
Material Similar To Material reported on SHC Form 619
No. 70-44
Specific Gravity (Sat.) 2.59, 2.59, 2.62, 2.61 2.53, 2.53, 2.56
Los Angeles Wear 29.2 2.56
Absorption 2.72, 2.54, 2.20, 2.12 Soundness 0.95
Remarks Plate V

Scale: 1" = 1/4 Mile
MATERIAL SURVEY REPORT

Site No. CG-44
Material Chert Gravel
County Osage
Location SW_4, NW_4
Sec. 4
Twp. 18S
Range 15E
Owner Loyd Bartee
Address Osage City, Kansas
Nature of Deposit Dry
Accessibility Good
Status of Site Open site; sampled

EXPLORATION DATA

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<th>Material at Bottom of Hole</th>
<th>Depth of Overburden</th>
<th>Percent Retained</th>
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CORRELATION DATA

Geological Age Pliocene(?)
Geological Source Tertiary Terrace
Material Similar To
Specific Gravity (Sat.) 2.53 (Dry) 2.49
Los Angeles Wear 17.2(A)
Absorption Soundness 0.97
Wt. Cu.Ft. 96.7 Str. Ratio
Remarks Plate V

Scale: 1" = ¼ Mile
MATERIAL SURVEY REPORT

LS+45

Site No. ______________________ Date June, 1966

Material Limestone County Osage

Location SW¼, SW¼ Sec. 34 Twp. 17S Range 16E

Owner Donald L. Evertson Melvern, Kansas

Nature of Deposit Dry Accessibility Good

Status of Site Open site; sampled

EXPLORATION DATA

<table>
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<th>Test Hole</th>
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<th>Depth of Overburden</th>
<th>Percent Retained</th>
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CORRELATION DATA

Geological Age Pennsylvanian

Geological Source Plattsmouth Limestone

Material Similar To Material reported on SHC Form 619 No. 70-36

Specific Gravity (Sat.) 2.67, 2.59, 2.57, 2.51 (Dry)

Los Angeles Wear 26.0(A), 35.7(A), 32.8(A), 39.2(A)

Absorption 0.98, 1.96, 2.31, 3.78 Soundness 0.94, 0.94, 0.88, 0.85

Wt. Cu.Ft. _______________ Str. Ratio _______________

Remarks Plate VI

Scale: 1" = ¼ Mile
**MATERIAL SURVEY REPORT**

**Site No.**: LS+46
**Date**: June, 1966

**Material**: Limestone
**County**: Osage

**Location**: SE\(\frac{1}{4}\), SE\(\frac{1}{4}\) Sec. 3 Twp. 18S Range 16E

**Owner**: E. H. Collins  
**Address**: Melvern, Kansas

**Nature of Deposit**: Dry  
**Accessibility**: Good

**Status of Site**: Open site; sampled

---

### EXPLORATION DATA

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<tr>
<th>Entry</th>
<th>Material</th>
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<th>Depth of Overburden</th>
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### CORRELATION DATA

**Geological Age**: Pennsylvanian

**Geological Source**: Plattsmouth Limestone

**Material Similar To**: Material reported on SHC Form 619 No. Osage County #2

**Specific Gravity (Sat.)**: 2.59  
**Specific Gravity (Dry)**: 2.59

**Los Angeles Wear**: 30.6(B)

**Absorption**: 2.60  
**Soundness**: 0.94

**Wt. Cu./ft.**: Str. Ratio

**Remarks**: Plate VI

---

Scale: 1" = \(\frac{1}{4}\) Mile
APPENDIX III

The following site data forms are designated as "prospective sites; sampled." The sites described herein are depicted on the county materials maps as a "▼".

LEGEND

---- Fence
======== Trail or lane
--------- Railroad
--- Road
----- Hedge or trees
--- Major streams
--- Intermittent streams
--- Pond or lake

Farm site
Open materials site
Prospective materials site
Center of section
Cemetery
School
Church
Town or city
STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

LS+47
Fde

Site No. ___________________ Date ________________

Land Description:

Material: Limestone
County: Osage
Location: Sec. 6, Twp. 16S, Range 16E
Owner: U. S. A. (Pomona Dam)
Natural Deposit: Dry
Accessibility: Good
Status: Prospective site; sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test Hole</th>
<th>Material at Bottom of Hole</th>
<th>Depth of Overburden</th>
<th>Percent Retained</th>
<th>Wash</th>
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<th>P.I.</th>
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CORRELATION DATA

Geological Age: Pennsylvanian
Geological Source: Ervine Creek Limestone
Material Similar To: Material reported on SHC Form 619 No. 70-45
Specific Gravity (Sat.) 2.61 (Dry) 2.56
Los Angeles Wear 27.6 (B)
Absorption 1.92
Soundness 0.94
Wt. Co.Ft. Str. Ratio
Remarks: Plate IV

Scale: 1" = ¼ Mile
LS-48  
Edo

Site No.  
Date  
June, 1966

Material  
Limestone

Location  
SE¼, NW¼  
Sec. 7  
Twp. 16S  
Range 16E

County  
Osage

Owner  
W. C. Neihart, et ux

Address  
Lyndon, Kansas

Nature of Deposit  
Dry

Accessibility  
Good

Status of Site  
Prospective site; sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test Hole</th>
<th>Material at Bottom of Hole</th>
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<th>Depth of Material</th>
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CORRELATION DATA

Geological Age  
Pennsylvanian

Geological Source  
Ozawkie Limestone

Material Similar To  
Material reported on SHC Form 619 No. 70-47

Specific Gravity (Sat.)  
2.52

(Dry)  
2.42

Los Angeles Wear  
30.60(B)

Absorption  
3.96

Soundness  
0.96

Wt. Co.Ft.  

Str. Ratio  

Remarks  
Plate IV

Scale: 1" = ¼ Mile
MATERIAL SURVEY REPORT

Site No. LS-49
Fl

Date June, 1966

Material Limestone
County Osage

Location NE\%\, SE\% Sec. 36 Twp. 18S Range 15E

Owner Justin W. Fellers
Olivet, Kansas

Nature of Deposit Dry
Accessibility Fair

Status of Site Prospective site; sampled

EXPLORATION DATA

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<thead>
<tr>
<th>Test Hole</th>
<th>Material</th>
<th>Depth of Overburden</th>
<th>Depth of Material</th>
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<td>Wash</td>
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CORRELATION DATA

Geological Age Pennsylvanian

Geological Source Lecompton Limestone

Material Similar To Material reported on SHC Form 619
No. 70-16

Specific Gravity (Sat.) 2.56, 2.67, 2.60, 2.66 (Dry)

Los Angeles Wear 27.6(A), 26.6(A), 31.8(A), 26.6(A)

Absorption 2.31, 1.44, 1.98, 1.10 Soundness 0.87, 0.90, 0.90, 0.87

Mt. Cu.Ft. Str. Ratio

Remarks Plate VI

Scale: 1" = ¼ Mile