APPENDIX IV

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

LEGEND

This symbol on the site data form represents a prospective site.
STATE HIGHWAY COMMISSION OF KANSAS

MINERAL SURVEY REPORT

Site No. 1

June, 1965

Material: Limestone
County: Marshall
Location: Sec. 25, T-36 R-78
Owner: C.B. Hight
Blue Rapids, Kansas
Nature of Deposit: Dry
Recovery: Good
Status of Site: Sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Explored</th>
<th>Material of Site</th>
<th>Depth of Material</th>
<th>Percent Refined</th>
<th>M. of M.</th>
<th>60</th>
<th>50</th>
<th>40</th>
<th>30</th>
<th>20</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

EXPLORATION DATA

Geological Age: Permian
Geological Form: Florence Limestone Member
Material Similar to: Material reported on SHG form 619, # 55-10
Specific Gravity (Soln.): 2.31, 2.34 (Dry) 2.20
Los Angeles Wear: 36.0 (1) 37.3
Observation: 6.3 lb, 6.51
Wt. Eq. (lb): 0.01, 0.05

Scale: 1" = 1 mile
**STATE HIGHWAY COMMISSION OF KANSAS**

**MATERIAL SURVEY REPORT**

**Site No.** L-121

**Date** June, 1965

**Material** Limestone

**County** Marshall

**Location** Sec. 20, Tp. 28, Rge. 72

**Owner** L. J. and S. J. Bernadt

**Address** Marysville, Kansas

**Nature of Deposits** Dry

**Accessibility** Poor

**Status of Site** Prospective site; sampled

### EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test Date</th>
<th>Material Below of Bed</th>
<th>Depth from Bottom</th>
<th>Height of Material</th>
<th>Percent Calcium</th>
<th>Percent Lime</th>
<th>Percent Active Carbonate</th>
<th>L.F.</th>
<th>L.L.</th>
<th>P.I.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### CORRELATION DATA

**Geological Age** Permian

**Geological Form** Fort Riley Limestone Member

**Material Similar to** Material reported on SHR form 645, Lab No. 06396, 07/1969

**Specific Gravity** (dry) 2.29, 2.35 (dry) 2.06, 2.15

**Los Angeles Neat** (B) 59.0 (B) 61.8

**Dissolution** 20.5% 9.13

**Observed** 0.95

**Note**
STATE HIGHWAY COMMISION OF KANSAS

MATERIAL SURVEY REPORT

Site No.: 18-122
Area: June 1967

Material: Limestone
County: Marion

Location: Sec. 6, Tp. 38, Rge. 78
Owner: John H. Ronnebaum
Marysville, Kansas

Nature of Deposit: Dry
Accessibility: Poor
Site: Prospective site; sampled

EXPLANATORY DATA

CORELATION DATA

Geological Age: Pennsian
Geological Series: Fort Riley Limestone Member
Geoclass: Material.
Specific Gravity (dry): 2.40, 2.36
Specific Gravity (sat.) 2.33, 2.27
Los Angeles Abrasion: 15 hr. 49.5
Absorption: 3.24, 4.09
Moist. Co. Ft.: 0.25, 0.95
Dr. Relief:
Remarks:

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

Site No. 124
Date June, 1965
Location T. 3 N., R. 55 E., Marshall County, Kansas
Owner W. E. McKeen

description

Nature of Deposit: Dry

Aerobicity: Good

Status of Site: Prospective site; sampled

EXPLORATION DATA

| Material | Bottom of hole or sheet | Depth of material
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Sand</td>
<td>0 ft</td>
<td>0.4 ft</td>
</tr>
</tbody>
</table>

Specific Gravity (Air): 2.7

Los Angeles Weary: 12

Abrasion: Smooth

Moist, 60 ft

Gross: 18"

EXTRACTION DATA

Geological Age: Quaternary

General Form: Kansas Tilt

Material Source: material reported on SHC Form 618, No. 58-1

Specific Gravity (Wet): 2.7

Los Angeles Weary: 12

Abrasion: Smooth

Moist, 60 ft

Gross: 18"
STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

Site No. 126

Date June, 1965

Material Limestone

County Marshall

Location Sec. 31

Township 50

Range 56

Owner J. H. Kennedy

Frankfort, Kansas

Nature of Exposure Dry

Accessibility Fair

Status of Site Prospective site; sampled

Explosion Data

Test Date Material at bottom of hole Depth of overburden South Material Percent Retained Size 0.10 0.25 0.50 1.0 1.5 2.0 5.0 10.0 Weight 500 E.F. 1.1. 1.1. No

Explosion Data

Geological Age

Geological Stage

Cottonwood Limestone Member

Material Similar to

Material reported on SHC Form 612, # 58-26.

Specific Gravity (Dry) 2.35, 2.35, 2.25

Los Angeles Wear (A) 35.0, (B) 35.0, (C) 35.0

Absorption 6.04, 6.52, 6.56

Weathered 0.73, 0.31, 0.31

A prominent westerly dip of the beds is indicated on the photographs, thus a rapid increase in overburden can be anticipated in this direction from the exposure.
STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

Site No. L5+126
Fuel June, 1965

Material Limestone
County Marshall

Location

Doer

Date

Accessibility

Nature of Deposit

Status of Site

PROSPECTIVE SITE, SAMPLED

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Depth of Material</th>
<th>Percent by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>25/4</td>
<td>40</td>
</tr>
</tbody>
</table>

CORRELATION DATA

Geological Age

Pernian

Geological Source

Cottonwood Limestone Members

Material Similar to

Material reported on HCD Form 15, p 59-75

Specific Gravity (Sec. 2) 2.40, 2.46

Low Angeles Value (A) 31.2, (A) 33.3

Absorption 3.72, 3.72

Wt. Gr./Ft. 84.0

Kornet 6
# MATERIAL SURVEY REPORT

**Site No.**  327  
**Material**  Mineral Filler  
**County**  Wabaunsee  
**Location**  Sec. 26 T. 25 R. 76  
**Owner**  Werner Seematter  
**Address**  Marysville, Kansas  
**Remarks**  Prospective site, sampled  

**Explanatory data**

<table>
<thead>
<tr>
<th>Test No.</th>
<th>Material of Bearing</th>
<th>Depth of Bearing</th>
<th>Depth of Material</th>
<th>Percent Saturation</th>
<th>Gravity</th>
<th>Compaction</th>
<th>N.P.</th>
<th>L.L.</th>
<th>P.L.</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>6%</td>
<td>67</td>
<td></td>
<td>92</td>
<td></td>
<td></td>
<td>26</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Geological age**  Quaternary  
**Geological feature**  Alluvium  
**Material Similar to**  Material reported on MIN form 619, 2' 69-30

Specific Gravity (Sat.): (Dry)  
Los Angeles Tear:  
\[\text{Assessment}\]  
\[\text{Remarks}\]  

[Map with details]
STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

No. 28-125
Vol.

Date: June 1965

Sand and Gravel

County: Marshall

Locality: 10

Rail Feet: Marysville, Kansas

Water: Wet

Accessibility: Poor

Status of Site: Prospective site, sampled

EXCAVATION DATA

[Table with data]

CORRELATION DATA

Geological Age: Quaternary

Geological Feature: Alluvium

Material (sample) reported on MHE form 636, Lab. No. 29338

Specific Gravity (Spec.) - 2.60 (Dr.

Los Angeles Abrasion - 38.1

Abraisions - 0.70

Water Content - 113.27

Density - 1 day 1.28, 3 day 1.26

Determined.
STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

Site No. MP-110  
Date June, 1966

Material Filler  
County Marshall

Grades 31  
Loc. 22

Owner John L. Berry et. al.  
St. 3 Blue Rapids, Kansas

Nature of Support Dry  
Accessibility Good

Notes of Site Prospective site sampled

Explanation Data

<table>
<thead>
<tr>
<th>Layer</th>
<th>Vol. %</th>
<th>Density</th>
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<tbody>
<tr>
<td>1</td>
<td>0.3</td>
<td>2.23</td>
</tr>
<tr>
<td>2</td>
<td>0.3</td>
<td>2.27</td>
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<tr>
<td>3</td>
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<td>2.26</td>
</tr>
<tr>
<td>4</td>
<td>0.3</td>
<td>2.22</td>
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</table>

Geological Age Quaternary

Geological Process Alluvium

Material Similar to material reported on SHC form No. 58-29

Specific Gravity (Sat.)  
Specific Gravity (Dry)

Los Angeles Abrasion

Absorption

Moist. Cap.

Remarks

Scale: 1"=1 mile
STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

Site No. 801-131

Date June, 1965

County Marshall

Material Sand and Gravel

Section NE1

Twp. 34 S

Range 76 E

Owner of Deposit

Kester N. Hammers

Blue Rapids, Kansas

Accessibility

Prospective site; sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test Date</th>
<th>Material</th>
<th>Gage of</th>
<th>Depth of</th>
<th>Percent Retained</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Bottom</td>
<td>Material</td>
<td></td>
</tr>
<tr>
<td>05-05</td>
<td></td>
<td>5</td>
<td>12</td>
<td>23</td>
</tr>
<tr>
<td>05-05</td>
<td></td>
<td>15</td>
<td>67</td>
<td>81</td>
</tr>
<tr>
<td>05-05</td>
<td></td>
<td>10</td>
<td>90</td>
<td>98</td>
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<tr>
<td>05-05</td>
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<td>15</td>
<td>90</td>
<td>98</td>
</tr>
<tr>
<td>05-05</td>
<td></td>
<td>20</td>
<td>80</td>
<td>80</td>
</tr>
</tbody>
</table>

CORELATION DATA

Geological Age Quaternary

Geological Source Alluvium

Material Similar to Material reported on SHG form 631, Lab No. 96661

Specific Gravity (Det.) 2.60

Loss on Ignition

Los Angeles Wear (C) 32

ABRasion 0.60

Mo. Grade 119

Coments

Remarks

Scale: 1" = 1/4 mile
MARSHALL COUNTY MATERIALS MAP LEGEND

EXPLANATION OF MATERIALS SITE DESIGNATIONS

- Open site; not sampled (Appendix I)
- Open site; sampled (Appendix II)
- Prospective site; not sampled (Appendix III)
- Prospective site; sampled (Appendix IV)

Material Type
- Sand & Gravel (SG)
- Limestone (LS)
- Fine Sand (FS)
- Chert Gravel (CG)
- Mineral Filler (MF)

Estimated Quantity
+ indicates more than 20,000 cubic yards
- indicates less than 20,000 cubic yards

Site Data Form Number
Geologic Age and Unit

EXPLANATION OF MAP SYMBOLS

- Alluvium
- Grand Island Formation
- Pre-Kansan Gravel (not mapped)
- Kansan Till (not mapped)

Dry lake subject to flood

1 0 1 2 3 4 Miles
MARSHALL COUNTY MATERIALS MAP LEGEND

EXPLANATION OF MATERIALS SITE DESIGNATIONS

- Open site; not sampled (Appendix I)
- Open site; sampled (Appendix II)
- Prospective site; not sampled (Appendix III)
- Prospective site; sampled (Appendix IV)

Material Type
- SG - Sand & Gravel
- LS - Limestone
- FS - Fine Sand
- CG - Chert Gravel
- MF - Mineral Filler

Estimated Quantity
+ indicates more than 20,000 cubic yards
- indicates less than 20,000 cubic yards

Site Data Form Number
Geologic Age and Unit

EXPLANATION OF MAP SYMBOLS

- **Alluvium**
- **Gran Island Formation**
- **Pre-Kansas Gravel (not mapped)**
- **Kansas Till (not mapped)**

**Dry lake subject to flood**

**Fort Riley Limestone**
**Florencis Limestone**
**Par**

**Sherman Limestone**

**Hoxne Sandstone**
**Hoxneville Sandstone**

**Morrill Limestone**
**Crittenden Limestone**
**Par**

**Saline Shale**

**Hoxne Limestone**

1 0 1 2 3 4 Miles
MARSHALL COUNTY MATERIALS MAP LEGEND

EXPLANATION OF MATERIALS SITE DESIGNATIONS

- Open site; not sampled (Appendix I)
- Open site; sampled (Appendix II)
- Prospective site: not sampled (Appendix III)
- Prospective site; sampled (Appendix IV)

Material Type
- SG - Sand & Gravel
- LS - Limestone
- FS - Fine Sand

Estimated Quantity
- Indicates more than 20,000 cubic yards
- Indicates less than 20,000 cubic yards

Site Data Form Number

Geologic Age and Unit

EXPLANATION OF MAP SYMBOLS

Alluvium
- Grand Island Formation
- Pre-Kansan Gravel (not mapped)
- Kansan Till (not mapped)

dry lake subject to flood

Floodplain Limestone
- Sandstone
- Florence Limestone
- Schuyler Limestone

Mesozoic Rulses
- Mesozoic Rulse

Morrill Limestone
- Carbonate Shale
- Conasauga Limestone
- Elyria Sandstone
- Nixa Limestone
- Freck

1 0 1 2 3 4 Miles
MARSHALL COUNTY MATERIALS MAP LEGEND

EXPLANATION OF MATERIALS SITE DESIGNATIONS

- Open site: not sampled (Appendix I)
- Open site: sampled (Appendix II)
- Prospective site: not sampled (Appendix III)
- Prospective site: sampled (Appendix IV)

Material Type
- SG - Sand & Gravel
- LS - Limestone
- FS - Fine Sand
- CG - Chert Gravel
- MF - Mineral Filler

Estimated Quantity
- + indicates more than 20,000 cubic yards
- - indicates less than 20,000 cubic yards

Site Data Form Number

Geologic Age and Unit

EXPLANATION OF MAP SYMBOLS

Alluvium

Grand Island Formation

Pre-Kansan Gravel

Kansan TILL

dry lake subject to flood

1 0 1 2 3 4 Miles