APPENDIX I

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

LEGEND

This symbol on the site data form represents an open site.
Site No.: E1  
Date: August 1966  

Limestone  
Country: Linn  

Section: SW 1/4, SW 1/4  
Town: 6  
Range: 23S  
Township: 25E  

Owner: Ira J. Ham  
Address: Prescott, Kansas  

Status of Site: Open site; not sampled (Abandoned)  

<table>
<thead>
<tr>
<th>Section</th>
<th>Material or Limestone Member</th>
<th>Depth of Bed</th>
<th>Depth of Material</th>
<th>L.F.</th>
<th>U.F.</th>
<th>Vr</th>
<th>Vr</th>
<th>Sw</th>
<th>Sh</th>
<th>Sd</th>
<th>Sd</th>
<th>Mfr</th>
<th>L.L.</th>
<th>P.P.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

**Pennsylvania**  

**Geological Age:** Labrador Limestone Member  

**Material Similar To:**  

- **Specific Gravity (Sat.):** (dry)  
- **Los Angeles Abrasion:**  
- **Aborption:**  
- **wt. of Ft.:**  
- **Site Notes:**  
- **Remarks:**  

Scale: 1/4 Mile  

Prescott, Kansas
STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

LS+2 Fbr
Site No. Date August 1964
Limestone County Linn
Material SW 1/4, SW 1/4 Sec. 1 Tr. 21S Range 24E
Location Owner John B. Gilstrap
Dry
Nature of Deposit Open site; not sampled
Accessibility Very poor

DESCRIPTION DATA

<table>
<thead>
<tr>
<th>Material</th>
<th>Depth</th>
<th>Percent</th>
<th>Specific Gravity</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
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</table>

CORRELATION DATA

Geological Age Pennsylvania
Geological Source Bethany Falls Limestone Member
Material Similar To

Deposits: Limestone (Detachment)
Los Angeles Test
Adhesion
Wt. % Fri.

Remarks

Scale: 1/2 Mile

Map of area showing location and details of survey.
Material Survey Report

Site No.: LS-3
Date: August 1964

Material: Limestone
County: Linn

Location: SE 1/4, NE 1/4, 28-20S, Rng. 24E
Owner: Glen Greager
Geological Address: LaCygne, Kansas

Nature of Exposure: Dry
Accessibility: Fair

Status of Site: Open site, not sampled

Exploration Data

<table>
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<tr>
<th>Layer</th>
<th>Material at Depth</th>
<th>Depth of Sample</th>
<th>Notes</th>
<th>Stratum</th>
<th>Bedding</th>
<th>Water</th>
<th>N.P.</th>
<th>L.P.</th>
<th>P.P.</th>
</tr>
</thead>
<tbody>
<tr>
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<td></td>
</tr>
</tbody>
</table>

Consolidation Data

Geological Age: Pennsylvanian
Geological Member: Bethany Falls Limestone Member
Material Similar To:

Specific Gravity (Sat.) (Dry)
Los Angeles Wear

Assessor

Site

Remarks
**MATERIAL SURVEY REPORT**

**Site No.:** E1W  
**Date:** August 1964

**Location:** SE 1/4, SW 1/4  
**Township:** 36  
**Range:** SE Range 22E  
**Meridian:** Linn

**Owner:** Raymond C. Mitchell  
**Formation:** Parker, Kansas

**Material:** Limestone  
**Soil Type:** Dry  
**Drainage:** Good  
**Acreage:** Open site; not sampled

### EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test Well</th>
<th>Material</th>
<th>Depth</th>
<th>Material</th>
<th>17</th>
<th>24</th>
<th>4</th>
<th>6</th>
<th>8</th>
<th>11</th>
<th>50</th>
<th>100</th>
<th>Wash</th>
<th>M.f.</th>
<th>L.l.</th>
<th>P.f.</th>
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</thead>
<tbody>
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<td></td>
</tr>
</tbody>
</table>

### EXPLANATORY DATA

**Geological Age:** Pennsylvanian  
**Geological Series:** Winterant Limestone Member  
**Material Similar To:**

**Specific Gravity (Int.)**

**Los Angeles Abrasion**

**Adsorption**

**Mf. Grt.**

**Sft. Mat.**

**Remarks:**

---

**Scale:** 1/2 Mile
STATE Highways COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

CG-8

Site No. 04

Date August 1964

Material Chert Gravel

County Linn

Location SE 1/4, SE 1/4

Sec. 17

Town 21S

Range 25E

Owner State of Kansas

Name

State of Kansas Game Refuge

Nature of Deposit Dry

Accessibility Good

State of Site Open site, not sampled

EXPLANATION DATA

<table>
<thead>
<tr>
<th>Test Hole</th>
<th>Material</th>
<th>Color of Rock</th>
<th>Material or Rock Description</th>
<th>Depth of Material</th>
<th>Material of Bottom Layer</th>
<th>Water Seepage</th>
<th>G.F.</th>
<th>L.L.</th>
<th>P.S.</th>
</tr>
</thead>
</table>

COMPARISON DATA

Geological Age Pleistocene

Geological Source Kansan Terrace Deposit

Material Similar To

Specific Gravity (Dry) [Dry]

Los Angeles Wear

Abrasiveness

Mt. Erosion

Remarks
STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

CG-9

Site No.  OK

Date  August 1964

Material  Chert Gravel

County  Linn

Location  SW 1/4, SE 1/4 Sec. 17 Twp. 21S Range 25E

State of Kansas (Game Refuge)

Nature of Deposit  Dry

Accessibility  Good

Status of Site  Open site; not sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test Date</th>
<th>Material Below</th>
<th>Depth of Material</th>
<th>Density of Material</th>
<th>Mass %</th>
<th>Bulk</th>
<th>G.F.</th>
<th>L.C.</th>
<th>T.C.</th>
</tr>
</thead>
</table>

EXTRUSION DATA

Geological Age  Pleistocene

Geological Form  Kansas Terrace Deposit

Material Similar To

Depositional Units [In.]

Los Angeles Wear

Absorption

Wt. Gals.:

Remarks

Scale: 1/4 Mile
STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

CG-10

Site No.  QK
Date August 1964

Chest Gravel
Material
Lion
County

Location

NW 1/4
Sec. 20
Twp. 21S
Rng. 25E

Fern Fisher
Owner

Pleasanton, Kansas
Town

Nature of Deposit
Dry

Accessibility
Good

Nature of Site
Open site; not sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test</th>
<th>Mat.</th>
<th>Depth</th>
<th>Depth</th>
<th>Per cent.</th>
<th>L.L.</th>
<th>P.L.</th>
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</thead>
<tbody>
<tr>
<td>No.</td>
<td>at 25</td>
<td>of Cons.</td>
<td>of Cons.</td>
<td>Material</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Test</th>
<th>Mat.</th>
<th>Depth</th>
<th>Depth</th>
<th>Per cent.</th>
<th>L.L.</th>
<th>P.L.</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
<td>at 25</td>
<td>of Cons.</td>
<td>of Cons.</td>
<td>Material</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

CUMULATIVE DATA

Geological Age Pleistocene

Geological Source Kansas Terrace Deposit

Material Field Test

Specific Gravity: ( Frag.)

L.G. Angulus Yard

Absorption

Moisture Content

Loss on Ignition

Remarks

20

Sec. Line

Road

Farm Site

00-10

QK

Road

Farm Site

Road

Farm Site

Road

Sec. Line

20

Road

Farm Site

Road

Farm Site

Road

Secals: 3 Miles
APPENDIX II

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

LEGEND

This symbol on the site data form represents an open site.
# Survey Report

**Location:**
- Site No.: LS-11
- Date: August 1964
- County: Linn
- Township: SW 1/4, SW 1/4
- Range: 23S
- Section: 11
- Location: 25E

**Owner:**
- Edith Fay Miller
- Prescott, Kansas

**Notes on Report:**
- Dry
- Accessibility: Good
- Open site; sampled

## Exploration Data

<table>
<thead>
<tr>
<th>Tool No.</th>
<th>Material</th>
<th>Molding</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Sampled</th>
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<tbody>
<tr>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

## Geologic Data
- **Geologic Age:** Pennsylvaniaian
- **Material Similar to:** Laberdie Limestone Member
- **Material Reported on S.H.C. Form 519:** No. 54-22
- Specific Gravity: 2.53, 2.54, 2.54 (avg)
- Los Angeles Wear: 2.46, 2.45, 2.46, 2.46
- Absorption: 2.85%, 3.26%, 3.04%

**Remarks:**
- Str. Beds

---

**Scale:** 1/2 mile

---
STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

LS 412

Grid No. 1858  Date  August 1964

Material  Limestone  County  Linn

Location  NE 1/4, NE 1/4  Sec.  25  Twp.  22S  Range  24E

Owner  O. D. Mayhugh  Prescott, Kansas

Nature of Deposit  Dry  Accessibility  Good

Status of Site  Open site, sampled

ELEVATION DATA

Test Hole  Material  Water Table  Depth of Material  Form 3  Percent Material

Pennsylvania

Geological Age  Pennsylvania

Geological Member  Bethany Falls Limestone Member

Material Similar To  material reported on S.H.C. Form 619, No. 54-21

Specific Gravity  2.58, 2.55  (Dry)  2.53, 2.49

Los Angeles Wear  (Grading B)  35.7%

Loss on Ignition  2.04%, 2.16%

M. C. ft.  Not Available

Remarks

Scale: 1/2 mile
STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

LS+13

Site No.:

Limestone

County:
Linn

Location:
NE 1/4, SE 1/4
Sec. 30
Twp. 19S
Range 25E

Owner:
Wm. E. Wolf, et al

LaCygne, Kansas

Nature of Deposit:
Dry

Accessibility:
Good

Status of Site:
Open site: sampled

EXPLANATION DATA

<table>
<thead>
<tr>
<th>Test Mile</th>
<th>Material at Site</th>
<th>Size of Material</th>
<th>Depth Under Water</th>
<th>Percent Material</th>
<th>M.C.</th>
<th>A.C.</th>
<th>L.L.</th>
<th>P.I.</th>
</tr>
</thead>
<tbody>
<tr>
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<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

EXHIBITS DATA

Geological Age:
Pennsylvaniaian

Geological Form:
Betty Falls Limestone Member

Material Similar To:
material reported on S.H.C. Form 619, No. 54-20.

Soil Characteristic (Sat.):
2.62

Soil Characteristic (Dry):
2.58

Los Angeles Durability:
26.1%

Absorption:
1.68%

St. Fe. Pct.: 
0.99

Soil:

AMEND
STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

LS+14

Site No. Limestone County Linn

Material:

Location: SE 1/4, NE 1/4 Sec. 13 Twp. 21S Range 21E

Owner: Hayden Good, et al

Pleasanton, Kansas

Nature of Deposit: Dry

Accessibility: Good

Status of Site: Open site; sampled

EXCAVATION DATA

<table>
<thead>
<tr>
<th>Test No.</th>
<th>Material of Deposit</th>
<th>Depth of Excavation</th>
<th>Peg(s) Location</th>
<th>Percent Material</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
</tbody>
</table>

CORRELATION DATA

Geological age: Pennsylvania

Geological Form: Winterset Limestone Member

Material similarity: material reported on SHC Form 619, No. 54-15

Specific Gravity (orr): 2.55

Los Angeles wear (Grading B): 26.0%

Absorption: 1.59%

Wt. Cc.Ft.: Stk. Tons

Remarks:
State Highway Commission of Kansas

Material Survey Report

LS +15
For: August 1964
Limestone: Linn
Material: SE 1/4, SE 1/4
Location: 36 19S 24E
	
Owner: 
Nature of Soils: Dry
Accessibility: Good
States of Site: Open site; sampled

Exploration Data

<table>
<thead>
<tr>
<th>Test Hole</th>
<th>Material</th>
<th>Nature of Soils</th>
<th>Access</th>
<th>Depth of Material</th>
<th>Penn. ( \times 10^3 )</th>
<th>PI</th>
<th>L.L.</th>
<th>P.C.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 ( \times 10^3 )</td>
<td>2 ( \times 10^3 )</td>
<td>3 ( \times 10^3 )</td>
<td>4 ( \times 10^3 )</td>
<td>5 ( \times 10^3 )</td>
<td>6 ( \times 10^3 )</td>
<td>7 ( \times 10^3 )</td>
<td>8 ( \times 10^3 )</td>
<td>9 ( \times 10^3 )</td>
</tr>
</tbody>
</table>

Corelation Data

Pennsylvania

Geological Age: Bethany Falls Limestone Member
Geological Source: Material reported on S.H.C. Form 619, No. 54-18.

Material Similar:

Specific Gravity (Sp. Gr.): (Dry)
Los Angeles Abrasion:
Absorption:
Water Retention:
Remarks:

Scale: \( \frac{1}{4} \) Mile
STATE HIGHWAY COMMISSION OF KANSAS

NATIONAL SURVEY REPORT

LS+17  SW
Site No. August 1964
Boca
Location SW 1/4, SE 1/4
County Lima
Tew. 28 Sec. 205 Range 22E
Owner Guy T. Kinder
Place Parker, Kansas
Condition Dry
Accessibility Good
Nature of Deposit Open site; sampled

EXPLORATION DATA

| Depth of Site | Material | Depth and Location | Percent Bed-Grained | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 | 2 1/2 | 3
|---------------|---------|--------------------|--------------------|-----|-----|----|-------|------|----|-------|----|
| ft | in | ft | in | in | in | in | in | in | in | in
| 19 | 0 | 19 | 0 | 19 | 0 | 19 | 0 | 19 | 0 | 19 | 0 |

MINERALIZATION DATA

Geological Age Pennsylvanian
Geological Horizon Winterset Limestone Member
Material Similar to material reported on S.H.C. Form 619, No. 54-16.

Specific Gravity (Grav.) 2.54 (Pyc.) 2.46
Los Angeles Abrasion (Grading B) 19.7%
Absorption 3.31% Soundness 0.97
Wt. % CaCO3  Str. Value
Anorthite

Scale: 1/2 Mile
STATE OF KANSAS

MATERIAL SURVEY REPORT

LS+18

Site No.  Wa  August 1964

Limestone  Liun

Material

Location  NW 1/4, SW 1/4  Sec. 23

Site of Site:  Open site, sampled

Status:  Dry

Nature of Deposit:

Geological Field:

Pennsylvania

Geological Form:

Argentina Limestone Member

Material:  Field material reported on S.H.C. Form 619, No. 54-15.

Specific Gravity:

2.61, 2.58, 2.55 (avg.) 2.53, 2.51, 2.50, 2.47

Loss on Ignition:

30.6%, 33.8%, 30.9%, 34.4%

Resistivity:

2.91%, 2.91%, 3.11%

Moisture: 0.98, 0.98, 0.97, 0.96

Kinds of:

Mica, Felsite

Remarks:

Sec. Line

4 1/2 Mile Scale

Faro Site

Faro Site

Faro Site
Site No. 19  
Limestone  
County Linn  
Location NW 1/4, SW 1/4  
Sec. 25  
Township 21S  
Range 22E  
Owner Charles Murray  
Address Pleasanton, Kansas  
Water Dry  
Accessibility Good  
Status of Site: Open Site; Sampled  

**EXPLANATION DATA**

<table>
<thead>
<tr>
<th>Top. Date</th>
<th>Material Exposed</th>
<th>Extent of Exposed</th>
<th>Depth</th>
<th>Percentite</th>
<th>Water</th>
<th>GW</th>
<th>L-L</th>
<th>F-L</th>
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<tbody>
<tr>
<td>12/20</td>
<td>Unconsolidated</td>
<td>1/2</td>
<td>65%</td>
<td>8</td>
<td>15</td>
<td>25</td>
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</table>

**CORRELATION DATA**

{Geological Age: Pennsylvanian  
{Geological Source: Winterset Limestone Member  
{Material Similar to: material reported on S.H.C. Form 619, No. 54-13.  

Specific Gravity (stat.) 2.53, 2.53, 2.54, 2.54, 2.54, 2.46, 2.46, 2.46, 2.46  
{Los Angeles Hardness (Grading B) 35.0%, 35.6%, 34.7%, 33.1%  

Sodium: 2.85%, 3.26%, 1.04%  
Sodium: 2.96%  
Potassium: 0.98, 0.99, 0.97, 0.98  
Wt. (oz./cu.ft.) 1.1  
Harborville  
Res. Rate  

Scale: 1/2 Mile
LINN COUNTY MATERIALS MAP

LEGEND

EXPLANATION OF MATERIALS SITE DESIGNATIONS

- Open site; not sampled (Appendix I)
- Open site; sampled (Appendix II)

Material Type
- CG - Chert Gravel
- LS - Limestone

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

Site Data Sheet Number
Geologic Age and Unit

EXPLANATION OF MAP SYMBOLS

Illinoian, Wisconsin, and Recent Terrace Deposits

---

Argentina Limestone

Lane Shale

Raytown Limestone

Winterfield Limestone

Stark Shale

Coville Limestone

Gatesburg Shale

Bethany Falls Limestone

---

1 0 1 2 3 4 Miles
LINN COUNTY MATERIALS MAP

LEGEND

EXPLANATION OF MATERIALS SITE DESIGNATIONS

- Open site; not sampled (Appendix I)
- Open site; sampled (Appendix II)

Material Type
- CG - Chert Gravel
- LS - Limestone

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

Site Data Sheet Number
Geologic Age and Unit

EXPLANATION OF MAP SYMBOLS

Ilinoisian, Wisconsinan, and Recent Terrace Deposits

Winterset Limestone

Stark Shale

Canoville Limestone

Galesburg Shale

Rothbury Falls Limestone

Labedie Limestone

Mine Creek Slate

Myrick Station Limestone

Anna Shale

Labette Shale

1 0 1 2 3 4
Miles
LINN COUNTY MATERIALS MAP

LEGEND

EXPLANATION OF MATERIALS SITE DESIGNATIONS

- Open site; not sampled (Appendix I)
- Open site; sampled (Appendix II)

**Material Type**
- CG - Chert Gravel
- LS - Limestone

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

**Site Data Sheet Number**

**Geologic Age and Unit**

EXPLANATION OF MAP SYMBOLS

- Wisconsinan, Wisconsinan, and Recent Terrace Deposits

- **Argentina Limestone**
- **Lane Shale**
- **Raytown Limestone**

- **Winterset Limestone**
- **Shark Shale**
- **Caville Limestone**
- **Caledburg Shale**
- **Bethany Falls Limestone**

1 0 1 2 3 4 Miles
**LINN COUNTY MATERIALS MAP LEGEND**

**EXPLANATION OF MATERIALS SITE DESIGNATIONS**
- Open site; not sampled (Appendix I)
- Open site; sampled (Appendix II)

<table>
<thead>
<tr>
<th>Material Type</th>
<th>CG - Chert Gravel</th>
<th>LS - Limestone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Estimated Quantity</td>
<td>+ indicates more than 20,000 cubic yards</td>
<td>- indicates less than 20,000 cubic yards</td>
</tr>
<tr>
<td>Site Data Sheet Number</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Geologic Age and Unit</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**EXPLANATION OF MAP SYMBOLS**
- Illinoisan, Wisconsinan, and Recent Terrace Deposits
- Kansasan Terrace Deposits

**Geologic Column Diagram**
- Winterest Limestone
- Stark Shale
- Cassville Limestone
- Chiricahua Shale
- Bethany Falls Limestone
- Labeled Limestone
- Mine Creek Shale
- Myrick Station Limestone
- Abilene Shale
- Labeled Shale

**Scale**
- 1 mile
- 2 miles
- 3 miles
- 4 miles
LINN COUNTY MATERIALS MAP

EXPLANATION OF MATERIALS SITE DESIGNATIONS

- Open site; not sampled (Appendix I)
- Open site; sampled (Appendix II)

Material Type
- CG - Chert Gravel
- LS - Limestone

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

Site Data Sheet Number

Geologic Age and Unit

EXPLANATION OF MAP SYMBOLS

Illinoisan, Wisconsinan, and Recent Terrace Deposits

- Argentine Limestone
- Lane Shale
- Raytown Limestone
- Winteraet Limestone
- Stark Shale
- Canville Limestone
- Galesburg Shale
- Bethany Falls Limestone

Legend:

- Fv

Scale:

1 0 1 2 3 4 Miles