OPEN MATERIALS SITES; SAMPLLED

LEGEND

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

■ Open materials sites; sampled
○ Open materials sites; not sampled

5 Center of section
□ Dwelling
[Church]
[School]
[+ Cemetery]
[+ Town or city]
MATERIAL SITE DATA FORM

Site No. Ls+1
Date February, 1975
Material Limestone
County Crawford
Location SW 1/4 Sec. 31 Twp. 27S Range 24E
Owner Lizzie Kruger 
Cherokee, Ks
Nature of Deposit Dry
Accessibility Good
Site Located on Plate II
Status of Site Open Materials 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 Pawnee Limestone Fm.-Laherdie Ls. Mbr.
Material Similar To SHC Form 619, No. 19-7

Specific Gravity (Sat.) 2.57 (Dry) 2.50
Los Angeles Wear 28(B) 2.6
Absorption 0.97
Mt. Co.Ft.
Str. Ratio
Remarks

Scale: 1"=1/4 mile
MATERIAL SITE DATA FORM

Site No. Ls+2                  Date February, 1975
PF

Material Limestone              County Crawford

Location NH34 Sec. 6            Twp. 28S Range 24E

Owner Lazy D Corp.             Rt. 1, Girard, Ks

Nature of Deposit Dry           Accessiibility Good  Site Located on Plate II

Status of Site Open Materials 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>Depth of Material</th>
<th>Percent Retained</th>
<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  Pawnee Ls. Fm. - Laberdie Ls. Mbr.
Material Similar To SHC Form 619, No. 19-12

Specific Gravity (Sat.)  2.53 (Dry)  2.48
Los Angeles Abrasion  35.1(B)
Absorption  2.11  Soundness  0.98
Wt. Cu.Ft.  Str. Ratio

Remarks.

Scale: 1"=¼ mile
MATERIAL SITE DATA FORM

Site No.  Ls+3  Date  February, 1975

Material  Limestone  County  Crawford

Location  NW  4  Sec.  25  Twp.  28S  Range  24E

Owner  John Cukjati.  Rt. 1, Mulberry, Ks

Nature of Deposit  Dry  Accessibility  Good  Site Located on Plate II

Status of Site  Open Materials Site; Sampled

EXPLORATION DATA

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<th>Material at bottom of Hole</th>
<th>Depth of Overburden</th>
<th>Percent Retained</th>
<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  Fort Scott Ls. Fm. - Higginsville Ls. Mbr.

Material Similar To  SHC Form 619, No. 19-9

Specific Gravity (Sat.)  2.61  (Dry)  2.56

Los Angeles Wear  27.2(C)

Absorption  2.10  Soundness  0.96

Mt. Cu. Ft.  Str. Ratio

Remarks

Scale: 1"=1/4 mile
MATERIAL SITE DATA FORM

Ls+4
Site No.  LP

Date: February, 1975

Material: Limestone
County: Crawford

Location: SW1/4
Sec.: 24
Twp.: 29S
Range: 22E

Owner: Eugene F. Strasser & Wife, 708 W. Euclid, Pittsburg, Ks

Nature of Deposit: Dry
Accessibility: Good
Site Located on Plate: III

Status of Site: Open Materials Site; Sampled

EXPLORATION DATA

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<th>Depth of overburden</th>
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<th>100</th>
<th>Wash 200</th>
<th>G.F.</th>
<th>L.L.</th>
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CORRELATION DATA

Geological Age: Pennsylvanian
Geological Source: Pawnee Limestone Fm - Myrick Station Ls. Mbr.
Material Similar To: SHC Form 619, no. 19-11

Specific Gravity (Sat.) 2.62 (Dry) 2.57
Los Angeles Wear 26.6(B)
Absorption 1.96

M. Cu.Ft. Str. Ratio

Remarks

Scale: 1"=1/4 mile
MATERIAL SITE DATA FORM

Site No.  Ls+5
Date       February, 1975

Material  Limestone
County     Crawford
Location   NE\textsuperscript{4} Sec. 24 Twp. 29S Range 22E
Owner      Bill Oplatnik & Wife, Rt. 4, Girard, Ks
Nature of Deposit Dry Accessibility Good
Status of Site Open Materials Site; Sampled

EXPLORATION DATA

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CORRELATION DATA

Geological Age Pennsylvanian
Geological Source Pawnee Limestone Fm.-Laberdie Ls. Mbr.(1) Myrick Station Ls. Mbr. (2) SHC Form 619, No. 19-10

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Specific Gravity (Sat.) (1) 2.55 (Dry) 2.55
Los Angeles Wear (1) 0.98 (2) 0.97
Absorption

Wt. Cu.Ft. Str. Ratio

Remarks

Scale: 1"=\frac{1}{4} mile
MATERIAL SITE DATA FORM

Ls+6

Site No. 12

Date February, 1975

Material Limestone

County Crawford

Location SE 1/4 Sec. 12 Top. 30S Range 22E

Owner William T. Niggemann, 115 W. Buffalo, Girard, Ks

Nature of Deposit Dry Accessibility Good

Site Located on Plate V

Status of Site Open Materials 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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G.F. L.I. P.I.

CORRELATION DATA

Geological Age Pennsylvanian

Geological Source Fort Scott Limestone Fm. - Higginsville Ls. Mbr.

Material Similar To SHC Form 619, No. 19-6

Specific Gravity (Sat.) 2.64 (Dry) 2.59

Los Angeles Wear 26(b)

Absorption 1.8 Soundness 0.97

Scale: 1"=1/4 mile

Remarks

Mt. Cu.Ft. Str. Ratio

30
OPEN MATERIALS SITES; NOT SAMPLED

LEGEND

Trail or lane

Open materials sites; not sampled

Road

Open materials sites; sampled

Railroad

Center of section

Hedge or trees

Dwelling

Major streams

Cemetery

Intermittent streams

School

Pond or lake

Church

Town or city
MATERIAL SITE DATA FORM

Site No. Ls+7

Ef Date September, 1975

Material Limestone

County Crawford

Location NW ¼ Sec. 14 Twp. 28S Range 24E

Owner Lewis M. Boggs

Rt. 1, Arcadia, Ks.

Nature of Deposit

Accessibility

Site Located on Plate

Status of Site Open Materials 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>
<th>Percent Retained</th>
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CORRELATION DATA

Geological Age Pennsylvanian

Geological Source Fort Scott Limestone Formation

Material Similar To

Specific Gravity (Sat.) (Dry)

Los Angeles Wear

Absorption Soundness

Mt. Cu.Ft. Str. Ratio

Remarks

Scale: 1" = ¼ mile
Ls+8

Site No. Ef
Date February, 1975

Material Limestone
County Crawford

Location SW 1/4 Sec. 25 Twp. 28S Range 24E

Owner Joe Galichia & Wife Rt. 3, Girard, Ks.
Name Joe Galichia & Wife
Address Rt. 3, Girard, Ks.

Nature of Deposit Dry
Accessibility II
Site Located on Plate

Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

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<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 Pennsylvania

Geological Source Fort Scott Limestone Formation

Material Similar To

Specific Gravity (Sat.) [Dry] 0

Los Angeles Wear

Absorption Soundness

Wt. Co.Ft. Str. Ratio

Remarks
Material Site Data Form

Limestone
County Crawford

Location NW 3/4 Sec. 19 Twp. 29S Range 24E
Kenneth Tersinar & Wife Rt. 4, Box 11A, Girard, Ks.

Nature of Deposit Dry  Accessibility Good  Site Located on Plate IV
Status of Site Open Materials Site; Not Sampled

Exploration Data

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<th>Test</th>
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Correlation Data

Geological Age Pennsylvanian
Geological Source Fort Scott Limestone Formation
Material Similar To

Specific Gravity (Sat.)  (Dry)
Los Angeles Wear
Absorption  Soundness
Mt. Co. Ft.  Str. Ratio
Remarks

Scale: 1" = ¼ mile
**MATERIAL SITE DATA FORM**

**Ls+11**

**Site No.**  
**PF**

**Date**  
**February, 1975**

**Material**  
**Limestone**

**County**  
**Crawford**

**Location**  
**SW 1/4**  
**Sec. 29**  
**Twp. 29S**  
**Range 24E**

**Owner**  
**R. Clayton Adaire, Sr.**

**Rt. 4, Girard, Ks**

**Nature of Deposit**  
**Dry**

**Accessibility**  
**Good**

**Site Located on Plate**  
**IV**

**Status of Site**  
**Open Materials Site; Not Sampled**

**EXPLORATION DATA**

<table>
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<th>Test Hole</th>
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<th>P.L.</th>
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**CORRELATION DATA**

**Geological Age**  
**Pennsylvanian**

**Geological Source**  
**Fort Scott Limestone Formation**

**Material Similar To**  

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

**Los Angeles Wear**

**Absorption**  
**Soundness**

**Mt. C ve.f.**  
**Str. Ratio**

**Remarks**
MATERIAL SITE DATA FORM

Site No. Ls+13
Ef

Date September, 1975

Material Limestone
County Crawford

Location NW 1/4 Sec. 30 Twp. 30S Range 24E

Cherokee & Pittsburg Coal Co., Am. Nat'l. Bank Bldg., Box 1208
Amarillo, Texas

Owner

Nature of Deposit Open Materials Site; Not Sampled
Accessibility Site Located on Plate VI

EXPLORATION DATA

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

Geological Age Pennsylvanian

Geological Source Fort Scott Limestone Formation

Material Similar To

Specific Gravity (Sat.) (Dry)

Los Angeles Wear

Absorption Soundness

Mt. Ct.Pt. Str. Ratio

Remarks

Scale: 1" = 1/4 mile
GLOSSARY


Absorption: Determined by tests performed in accordance with A.A.S.H.O. designation T85.

Alluvium: A deposit of clay, silt, sand, or gravel deposited by a stream or other body of running water.

Aquifer: A body of rock that contains sufficient saturated permeable material to conduct ground water and to yield economically significant quantities of ground water to wells and springs.

Bedded: A characteristic of some rock units which shows distinct layers due to the manner in which they were deposited.

Brachiopod: Shelled animal of marine origin, having two unequal shells or valves each of which are normally bilaterally symmetrical.

Chaetetes colonies: Colonies of thin-walled, imperforate polygonal tubes having an average diameter of .2 to .5 mm and attaining mass of 4 feet or more in height or width.

Chat: Finely-crushed gangue remaining after the extraction of lead and zinc minerals.

Chert: A dull, flint-like, siliceous rock.

Construction Aggregate: Processed rock that will meet standard specifications for concrete and bituminous construction.

Crinoid columns: Fossils of an ancient group of sea-lily type animals belonging to the phylum Echinodermata.

Cross Bedding: Term applied to sedimentary deposits whose bedding is inclined at various angles to the stratification.

Detritus: Loose rock and mineral material that is worn off or removed directly by mechanical means, as by disintegration or abrasion; esp. fragmental material, such as sand, silt, and clay, derived from older rocks and moved from its place of origin.

Dolomitic limestone: A limestone in which the mineral dolomite (CaMg(CO3)2) is conspicuous but calcite is more abundant.

Exposure patterns: Topographic features formed on the land surface by the exposure of geologic units.

Flaggy: Descriptive of a sedimentary rock that splits into layers from 1 cm to 5 cm in thickness.
Formation: A persistent body of rocks, having easily recognizable upper and lower boundaries that can be traced in the field without recourse to detailed paleontologic or petrologic analysis, and large enough to be represented on a geologic map as a practical or convenient unit for mapping and description.

Fossil: Any remains, trace, or imprint of a plant or animal that has been preserved, by natural processes, in the Earth's crust since some past geologic time.

Fusulinids: Small marine fossils, about the size and shape of a grain of wheat, belonging to the *Foraminifera*.

Geologic Era: Largest unit of geologic time (e.g. Paleozoic, Mesozoic, and Cenozoic).

Ground-water: That part of the subsurface water that is the zone of saturation, including underground streams.

Karst topography: A type of topography that is formed over limestone, dolomite, or gypsum by dissolving or solution, and that is characterized by closed depressions or sink holes, caves, and underground drainage.

Landform: Any physical, recognizable form or feature of the earth's surface, having a characteristic shape, and produced by natural causes; it includes major forms such as plain, plateau, mountain, hill, valley, slope, esker, and dune.

Light type surfacing: A surface course constructed from aggregate which is not bound by water, cement, or bituminous material.


Marine deposits: Deposits laid down in a sea.

Material source bed: A geologic unit from which construction material is being or can be produced.

Member: A division of a formation, generally of distinct lithologic character or of only local extent.

Oolitic limestone: A textural term for rock containing small, rounded grains that resemble fish eggs.

Open materials site: A pit or quarry from which material is produced for possible construction purposes.

Physiographic division: A division of the state, based on general geologic and (or) geographic features.
Plasticity index: The water-content range of a soil at which it is plastic; determined by tests performed in accordance with the Kansas Test Method KT-10 of the State Highway Commission of Kansas Construction Manual, Part V, 1969 edition.

Pleistocene Series: Deposits laid down during the Pleistocene Epoch.


Specific gravity: Determined by tests performed in accordance with A.A.S.H.O. designation T84 for fine aggregate and T85 for coarse aggregate.

Stereoscopic vision: Three-dimensional vision by means of viewing identical images on two photographs exposed from equal distance but at different angles.

Stratigraphic position: The vertical position of a geologic unit in relation to other geologic units.

Unconsolidated deposits: A sediment that is loosely arranged or unstratified, or whose particles are not cemented together, occurring either at the surface or at depth.

Weathering: The disintegration (physical change) or decomposition (chemical change) of rock by atmospheric agents.
Selected References


Myers, L.D. and Cummings, M.O. (1975) Construction Materials Inventory of Bourbon County, Kansas, no. 23: Kansas Department of Transportation, unpub.


