MATERIAL SITE DATA FORM

Sit No. LS+1  
Ps  

Date November, 1974  

Material Limestone  
County Bourbon  

Location NW 1/4  
Sec. 20  
Twp. 23S  
Range 22E  

Owner William G. Rhodes, Rt. 1, Bartlett, Kansas 67332  
Home Address  

Nature of Deposit Dry  
Accessibility Good  
Site Located on Plate I  

Status of Site Open Materials 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</th>
<th>Wash 200</th>
<th>C.F.</th>
<th>L.L.</th>
<th>P.I.</th>
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CORRELATION DATA

Geological Age Pennsylvanian  

Geological Source Swope Limestone Formation - Bethany Falls Ls. Mbr.  

Material Similar To SHC Lab No. 65-4729  

Specific Gravity (Sat.) 2.62  
(Sat.) 2.58  

Los Angeles Wear 29.5(B)  

Absorption 1.54  

Soundness 0.98  

Wt. Cu.Ft.  

Str. Ratio  

Remarks Materials Department Site No. 6-20  

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

Site No. Ps
Date November, 1974
Material Limestone
County Bourbon
Location NE ¼ Sec. 25 Twp. 23S Range 22E
Owner John D. Hays, Mapleton, Kansas
Nature of Deposit Dry
Accessibility Good
Site Located On Plate I
Status of Site Open Materials Site; Sampled

EXPLORATION DATA

<table>
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<tr>
<th>Test Hole</th>
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<th>Percent Retained</th>
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CORRELATION DATA

Geological Age Pennsylvania
Geological Source Swope Limestone Formation - Bethany Falls Ls. Mbr.
Material Similar To SHC Lab No. 23591

Specific Gravity (Sat.) 2.57 (Dry) 2.51
Los Angeles Wear 29.8(B)
Absorption 2.20  Soundness 0.98
Wt. Co.Ft.  Str. Ratio
Remarks Materials Department Site No. 6-17

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

Ls+3
Pt

Site No. __________________ Date ____________

Material Limestone County Bourbon

Location SW ¼ Sec. 36 Twp. 23S Range 22E

Owner ____________________________ Address ____________________________

Nature of Deposit Dry Accessibility Good Site Located on Plate I

Status of Site Open Materials Site: Sampled

EXPLORATION DATA

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CORRELATION DATA

Geological Age Pennsylvania

Geological Source Tacket Formation, Bourbon Flag Zone

Material Similar To SHC Lab. No. 20374

Specific Gravity (Sat.) 2.61 (Dry) 2.56

Los Angeles Wear 27.5(B)

Absorption 1.72 Soundness 0.98

Wt. Cu.Ft. ________________________ Wtr. Ratio ________________________

Remarks Materials Department Site No. 6-14
MATERIAL SITE DATA FORM

Site No. Ls+4
Date November, 1974

Material Limestone
County Bourbon

Location SW ¼
Sec. 4
Twp. 24S
Range 22E

Owner Nelson Motors, Inc., LaHarpe, Kansas

Return of Deposit - Dry
Accessibility - Fair
Site Located on Plate I

Status of Site - Open Materials Site; Sampled

EXPLORATION DATA

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<td>1/2 3/4 3/8 4 8 16 30 50 100 Wash 200 G.F. L.L. P.I.</td>
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CORRELATION DATA

Geological Age - Pennsylvanian

Geological Source - Swope Limestone Formation - Bethany Falls Ls. Mbr.

Material Similar To - SHC Lab. No. 66-173

Specific Gravity (Sat.) 2.59 (Dry) 2.54

Los Angeles Abrasion 30.2(B) 0

Absorption 1.84 Soundness 0.98

M. Cu.Ft. Str. Ratio

Remarks - Materials Department Site No. 6-16

Scale: 1" = ¼ mile
MATERIAL SITE DATA FORM

Site No. Ls+5

Date November, 1974

Material Limestone

County Bourbon

Location SE 1/4 Sec. 17 Top. 24S Range 23E

Owner Louise Womelsdorf, Mapleton, Kansas

Nature of Deposit Dry

Accessibility Good

Site Located on Plate I

Status of Site Open Materials Site; Sampled

EXPLORATION DATA

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<th>G.F.</th>
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CORRELATION DATA

Geological Age Pennsylvanian

Geological Source Swope Limestone Formation-Bethany Falls Limestone Mbr.

Material Similar To SHC Lab. No. 21211

Specific Gravity (Sat.) 2.54 (Dry) 2.48

Los Angeles Wear 33.0

Absorption 2.50 Soundness 0.99

Wt. Co.Ft. Str. Ratio

Remarks Materials Department Site No. 6-13

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

Site No.: Ls+6  
Dep.:  
Date: November, 1974  
Material: Limestone  
County: Bourbon  
Location: NE 1/4 Sec. 26  
Top. 23S Range 24E  
Owner: Merlin Messer, Fulton, Kansas  
Nature of Deposit: Dry  
Accessibility: Good  
Site Located on Plate: II  
Status of Site: Open Materials Site; Sampled

EXPLORATION DATA

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CORRELATION DATA

Geological Age: Pennsylvanian  
Geological Source: Pawnee Limestone Formation-Myrick Station Ls. Mbr.  
Material Similar To: SHC Lab. No. 38418

Specific Gravity (Sat.) 2.57  
(Dry) 2.53

Los Angeles Wear 24.2(B)

Absorption 1.77  
Soundness 0.97

Mt. Cu.Ft.  
Str. Ratio

Remarks: Materials Department Site No. 6-18

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

Ls+7
Site No.  Pf Date November, 1974
Material Limestone County Bourbon
Location NE 34 Sec. 33 Twp. 23S Range 25E
Owner Harold Morrell, Rt. 2, Fulton, Kansas
Nature of Deposit Dry Address II
Accessibility Good Site Located on Plate II
Status of Site Open Materials Site; Sampled

EXPLORATION DATA

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CORRELATION DATA

Geological Age Pennsylvania
Geological Source Fort Scott Limestone Formation-Higginsville Ls. Mbr.
Material Similar To SHC Lab. No. 6763

Specific Gravity (Sat.) 2.63 (Dry) 2.59
Los Angeles Wear 25.4(B)
Absorption 1.64 Soundness 0.96
Wt. Cu.ft. Str. Ratio
Remarks Materials Department Site No. 6-12

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

- **Site No.** Ls+8
- **Date** November, 1974
- **Material** Limestone
- **County** Bourbon
- **Location** SE 1/4 Sec. 11 Twp. 24S Range 25E
- **Owner** Wallace Malone, Rt. 2, Ft. Scott, Kansas
- **Nature of Deposit** Dry
- **Accessibility** Good
- **Site Located on Plate** 11
- **Status of Site** Open Materials Site; Sampled

### EXPLORATION DATA

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### CORRELATION DATA

- **Geological Age** Pennsylvanian
- **Geological Source** Fort Scott Limestone-Higginsville Ls. Mbr.
- **Material Similar To** SHC Lab. No. 68-2712
- **Specific Gravity (Sat.)** 2.62 (Dry) 2.57
- **Los Angeles Wear** 27.7(B)
- **Absorption** 1.68 Soundness 0.95
- **Wt. Cu.Ft.** Str. Ratio
- **Remarks** Materials Department Site No. 6-21

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

Site No. Ls+9  
Material Limestone  
County Bourbon  
Location SE ¼ Sec. 6  
Twp. 25S  
Range 22E  
Owner Ed. L. Ramsey, Bronson, Kansas  
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>200</th>
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CORRELATION DATA

Geological Age Pennsylvanian  
Geological Source Dennis Limestone Formation-Winterset Ls. Mbr.  
Material Similar To SHC Lab. No. 73-1842  
Specific Gravity (Sat.) 2.52 - 2.58 (Dry) 2.45 - 2.53  
Los Angeles Wear 34(B)  
Absorption 3.06 - 2.04 Soundness 0.99  
M. Co.Ft. Str. Ratio  
Remarks Materials Department Site No. 6-22

Scale: 1" = ¼ mile
MATERIAL SITE DATA FORM

Site No. Ls+10  
Date November, 1974  

Material Limestone  
County Bourbon  

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

Grandview Bank, Grandview, Mo.  

Owner Dry  
Accessability Good  
Site Located on Plate IV  

Status of Site Open Materials Site; Sampled  

EXPLORATION DATA

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

Geological Age Pennsylvanian  
Geological Source Fort Scott Ls. Fm. - Higginsville Ls. Mbr.  
Material Similar To SHC Lab No. 69-538  

Specific Gravity (sat.) 2.65  
(Dry) 2.61  

Los Angeles Wear 23.5(B)  

Absorption 1.58  

Soundness 0.98  

Mt. Co.Ft.  
Str. Ratio  

Remarks Materials Department Site No. 6-1  

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

Site No. Ls+11

Date November, 1974

Material Limestone

County Bourbon

Location NW 1/4 Sec. 2 Twp. 26S Range 25E

Owner Victor A. Johnson, 1426 Manwell, Ames, Iowa 50010

Nature of Deposit Dry

Accessibility Good

Site Located on Plate IV

Status of Site Open Materials Site; Sampled

EXPLORATION DATA

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

Geological Age Pennsylvanian

Geological Source Pawnee Limestone Formation-Myrick Station Ls. Mbr.

Material Similar To SHC Lab. No. 74-142

Specific Gravity (Sat.) 2.63 (Dry) 2.59

Los Angeles Wear 25(B)

Absorption 1.5 Boundness 0.99

Wt. Co.Ft. Str. Ratio

Remarks Materials Department Site No. 6-8

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

Limestone  
Ls+12

Site No.  
Rip

Date  
November, 1974

County  
Bourbon

Material  
Limestone

Location  
NW 1/4

Sec. 15  
Twp. 26S

Range  
23E

Owner  
Oscar H. Younggren, Redfield, Kansas

Nature of Deposit  
Dry

Accessibility  
Good

Site Located on Plate  
V

Status of Site  
Open Materials Site: Sampled

EXPLORATION DATA

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CORRELATION DATA

Geological Age  
Pennsylvanian

Geological Source  
Pawnee Limestone Formation-Myrick Station Ls. Mbr.

Material Similar To  
SHC Lab. No. 21206

Specific Gravity (Sat.)  
2.66

(Dry)  
2.64

Los Angeles Wear  
25.4

Absorption  
0.94

Soundness  
0.98

Wt. Co.Ft.  

Str. Ratio  

Remarks  
Materials Department Site No. 6-11

Scale: 1" = ¼ mile
MATERIAL SITE DATA FORM

Ls+13

Site No. Rp

Date November, 1974

Material: Limestone

County: Bourbon

Location: SW 1/4 Sec. 16 Twp. 26S Range 24E

Owner: R. W. Cullor Limestone Co., Ft. Scott, Kansas

Nature of Deposit: Dry

Accessibility: Good

Site Located on Plate: VI

Status of Site: Open Materials Site; Sampled

EXPLORATION DATA

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

Geological Age: Pennsylvanian

Geological Source: Pawnee Limestone Formation- Laberdie Ls. Mbr.

Material Similar To: SHC Lab. No. 36182

Specific Gravity (Sat.) 2.65 (Dry) 2.61

Los Angeles Wear 24.1(B)

Absorption 1.66 Soundness 0.98

Mt. Co./Pt. Str. Ratio

Remarks: Materials Department Site No. 6-19

Scale: 1" = ¼ mile
MATERIAL SITE DATA FORM

Site No. Ls+14
Date November, 1974

Material Limestone
County Bourbon

Location SE 1/4 Sec. 19
Town 26S Range 25E
Ralph Lockwood, Rt. 5, Fort Scott, Kansas

Owner Name
Address
Nature of Deposit Dry
Accessibility Good
Site Located on Plate VI

Status of Site Open Materials Site; Sampled

EXPLORATION DATA

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CORRELATION DATA

Geological Age Pennsylvania
Geological Source Pawnee Limestone Formation-Labeldie Ls. Mbr.
Material Similar To SHC Lab. No. 69-540

Specific Gravity (Sat.) 2.54 (Dry) 2.48
Los Angeles Wear 33.8(B)
Absorption 2.20 Soundness 0.99
Wt. Co.Ft. Str. Ratio

Remarks Materials Department Site No. 6-15

Scale: 1" = 1/4 mile
OPEN MATERIALS SITES; NOT SAMPLED

LEGEND

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

Open materials sites; not sampled
Open materials sites; sampled
Center of section
Dwelling
Cemetery
School
Church
Town or city
MATERIAL SITE DATA FORM

Site No. Ph

Material Limestone

County Bourbon

Location NE \( \frac{1}{4} \) Sec. 15 Twp. 24S Range 23E

Owner Adrian Craigmiles, Rich Hill, Mo.

Nature of Deposit Dry Accessibility Fair

Site Located on Plate I

Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

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CORRELATION DATA

Geological Age Pennsylvanian

Geological Source Hertha Ls. Fm. - Sniabar Ls. Mbr.

Material Similar To

Specific Gravity (Sat.) (Dry)

Los Angeles Wear

Absorption Roundness

Ut. Co.Ft. Str. Ratio

Remarks
MATERIAL SITE DATA FORM

Site No. Ls+16  Ph
Date November, 1974
Material Limestone
County Bourbon
Location NE ¼ Sec. 22 Twp. 24S Range 23E
Owner Kenneth B. Hart, Devon, Kansas
Nature of Deposit Dry Accessability Poor
Status of Site Open Materials Site: Not Sampled

EXPLORATION DATA

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CORRELATION DATA

Geological Age Pennsylvanian
Geological Source Hertha Ls. Fm. - Sniabar Ls. Mbr.
Material Similar To
Specific Gravity (Sat.) — (Dry)
Los Angeles Wear
Absorption
Soundness
Wt. Cc./Ft.
Str. Ratio
Remarks

Scale: 1" = ¼ mile
MATERIAL SITE DATA FORM

Site No. 2d  Data  November, 1974
Material  Limestone  County  Bourbon
Location  SW ¼  Sec. 28  Twp. 24S  Range 22E
Owner  Loretta Hockett, Bronson, Kansas
Nature of Deposit  Dry  Accessibility  Fair
Status of Site  Open Materials Site; Not Sampled

EXPLORATION DATA

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<th>Wash</th>
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CORRELATION DATA

Geological Age  Pennsylvanian
Geological Source  Dennis Ls. Fm. - Winterset Ls. Mbr.
Material Similar To
Specific Gravity (Sat.)
Los Angeles Wear
Absorption
Wt. Co.Ft.
Remarks

Scale: 1" = ¼ mile
MATERIAL SITE DATA FORM

Ls+18
Site No.  φs

Date November, 1974

Material Limestone
County Bourbon

Location SW 1/4 Sec. 30 Twp. 24S Range 23E

Owner William Ray Taylor, Uniontown, Kansas

Nature of Deposit Dry
Accessibility Good
Site Located on Plate I

Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

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CORRELATION DATA

Geological Age Pennsylvanian

Geological Source Swope Ls. Fm. - Bethany Ls. Mbr.

Material Similar To

Specific Gravity (Sat.) — (Dry)

Los Angeles Wear

Absorption — Soundness

Mt. C. Ft. — Str. Ratio

Remarks

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

Site No. Ls+19  Date September, 1975
Pa

Material Limestone  County Bourbon
Location NE 1/4  Sec. 30  Twp. 24S  Range 24E

Owner

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

EXPLORATION DATA

<table>
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<tr>
<th>Test Note</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  Altamont Ls. Fm. - Worland Ls. Mbr.
Material Similar To

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

Scale: 1" = 1/4 mile
Site No. Ls+20
Date November, 1974

Material Limestone
County Bourbon

Location NE ¼ Sec. 11 Twp. 24S Range 25E

Owner Ralph Fairbanks, Rt. 2, Ft. Scott, Kansas
Address Wet Accessibility Good Site Located on Plate II

Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

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CORRELATION DATA

Geological Age Pennsylvanian
Geological Source Fort Scott Ls. Fm. - Higginsville Ls. Mbr.

Material Similar To

Specific Gravity (Sat.) (Dry)

Los Angeles Wear

Absorption Soundness

Mt. Cn.Ft. Str. Ratio

Remarks

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

Site No. Ss+21
Material Limestone
County Bourbon
Location SE ¼ Sec. 29 Twp. 25S Range 23E
Owner Robert G. Steele, Redfield, Kansas
Nature of Deposit Wet
Accessibility Good
Site Located on Plate III
Status of Site Open Materials Site; Not sampled

EXPLOREATION DATA

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CORRELATION DATA

Geological Age Pennsylvanian
Geological Source Bandera Shale FM - Bandera Quarry SS Mbr.
Material Similar To

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

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

Site No. Ls+22

Date November, 1974

Material Limestone

County Bourbon

Location NW ¼

Sec. 7

Twp. 25S

Range 22E

Owner Ila Carmean, Bronson, Kansas

Nature of Deposit Dry

Accessibility Fair

Site Located on Plate III

Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

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CORRELATION DATA

Geological Age Pennsylvanian

Geological Source Dennis Ls. Fm. - Winterset Ls. Mbr.

Material Similar To

Specific Gravity (Sat.) (Dry)

Los Angeles Weal

Absorption Soundness

M. C. Ft. Str. Ratio

Remarks

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

**Site No.**  
**Date** November, 1974  
**Material** Limestone  
**County** Bourbon  
**Location** NE ¼ Sec. 24 Top. 25S Range 21E  
**Owner** Kaley Blythe (J.K. Corp.), Unioitown, Kansas  
**Accessiblity** Good  
**Nature of Deposit** Dry  
**Status of Site** Open Materials Site; Not Sampled  

**EXPLORATION DATA**

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**CORRELATION DATA**

**Geological Age** Pennsylvanian  
**Geological Source** Swope Ls., Fm., - Bethany Falls Ls., Mbr.  
**Material Similar To**  
**Specific Gravity (2pt.)** (Dry)  
**Los Angeles Wear**  
**Absorption** Soundness  
**Wt. Cu.Ft.** Str. Ratio  
**Remarks**

---

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

- **Site No.**: Ls+24
- **Date**: September, 1975
- **Material**: Limestone
- **County**: Bourbon
- **Location**: NW 1/4 Sec. 21 Twp. 25S Range 23E
- **Owner**: Abner Johnson, Uniontown, Kansas

### Exploration Data

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### Correlation Data

- **Geological Age**: Pennsylvanian
- **Geological Source**: Altamont Ls. Fm. - Worland Ls. Mbr.

### Additional Information
- **Material Similar To**:
- **Specific Gravity (Nat.)**: (Dry)
- **Los Angeles Weer**:
- **Absorption**:
- **Wt. Co./Ft.**:
- **Str. Ratio**:
- **Remarks**:

---

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

Ls+25  
Pa

Site No.  Date  September, 1975

Material  County  Bourbon
Limestone

Location  Sec.  Twp.  Range
SW 1/4  23  25S  23E

Ancel Johnson, Rt. 3, Ft. Scott, Kansas

Owner  Name

Nature of Deposit  Accessibility  Good  Site Located on Plate
Wet

Status of Site  Open Materials Site; Not Sampled

EXPLORATION DATA

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CORRELATION DATA

Geological Age  Pennsylvania

Geological Source  Altamont Ls., Fm. - Worland Ls. Mbr.

Material Similar To

Specific Gravity (Sat.)  (Dry)

Los Angeles Durability

Absorption  Soundness

Wt. C/Ft.  Str. Ratio

Remarks

Scale: 1" = 1/4 mile
Material Site Data Form

Ls+26

Site No. Pa

Date September, 1975

Material Limestone

County Bourbon

Location SE ¼ Sec. 23 Twp. 25S Range 23E

Arlo Eden, Rt. 3, Ft. Scott, Kansas

Owner Wet

Accessibility Good

Nature of Deposit Site Located on Plate III

Status of Site Open Materials Site; Not Sampled

Exploration Data

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Correlation Data

Geological Age Pennsylvanian

Geological Source Altamont Ls. Fm. - Worland Ls. Mbr.

Material Similar To

Specific Gravity (Sat.)

Los Angeles Wear

Absorption

Soundness

Wt. Co.Ft.

Ripr. Ratio

Remarks

Scale: 1" = ¼ mile
MATERIAL SITE DATA FORM

Site No. Pb
Date September, 1975
Material Sandstone
County Bourbon
Location SE ¼ Sec. 30
Township 25S
Range 23E
Owner Raymond Cowan, Redfield, Kansas
Accessibility Good
Nature of Deposit Dry
Site Located on Plate III
Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

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

Geological Age Pennsylvanian
Geological Source Bandera Shale Fm. - Bandera Quarry Ss. Mbr.
Material Similar To
Specific Gravity (Sat.)  (Dry)
Los Angeles Wear
Absorption Soundness
Mt. Co.Ft. Str. Ratio
Remarks

Scale: 1" = ½ mile
MATERIAL SITE DATA FORM

Site No. Ls+28
Ph

Date September, 1975

Material Limestone

County Bourbon

Location SW 1/4 Sec. 34 Twp. 25S Range 22E

Owner Arch L. Ramsey, Etal, Uniontown, Kansas

Nature of Deposit Dry

Accessibility Good

Site Located on Plate III

Status of Site Open Materials Site: Not Sampled

EXPLORATION DATA

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CORRELATION DATA

Geological Age Pennsylvanian

Geological Source Hertha Ls. Fm. - Sniabar Ls. Mbr.

Material Similar To

Specific Gravity (Sat.)

Los Angeles Wear

Absorption

Mt. Cu.Ft.

Strain Ratio

Remarks

Scale: 1" = ¼ mile
MATERIAL SITE DATA FORM

Site No. Ls+30  
Pp  
Material Limestone  
County Bourbon  
Location NW 1/4 Sec. 6 Twp. 25S Range 25E  
Owner Wayne Miller, Rt. 2, Ft. Scott, Kansas  
Nature of Deposit Dry  
Accessibility Good  
Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

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CORRELATION DATA

Geological Age Pennsylvania  
Geological Source Pawnee Ls. Formation - Laberdie Ls. Mbr.  
Material Similar To  
Specific Gravity (Sat.)  
Los Angeles Wear  
Absorption  
Mt. Co Ft.  
Soundness  
Str. Ratio  
Remarks

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

**Site No.**  
**Date** November, 1974

**Material** Limestone  
**County** Bourbon

**Location**  
NE ¼  
Sec. 18  
Twp. 25S  
Range 25E

**Owner** Guy S. Blankenship, Rt. 2, Ft. Scott, Kansas

**Nature of Deposit** Wet  
**Accessibility** Good  
**Site Located on Plate** IV

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

---

### EXPLORATION DATA

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### CORRELATION DATA

**Geological Age** Pennsylvanian

**Geological Source** Pawnee Limestone Formation - Laberdie Ls. Mbr.

**Material Similar To**

**Specific Gravity (Sat.)**

**Los Angeles Wear**

**Absorption**

**Soundness**

**Mt. Cu.Ft.**

**Str. Ratio**

**Remarks**

---

Scale: 1" = ¼ mile
MATERIAL SITE DATA FORM

Ss+33  
Type: Rd

Site No.  
Date: September, 1975

Material  
County: Bourbon

Location  
Sec.: 24  
Twp.: 25S  
Range: 23E

Owner  
Address: 
State: Kansas
Nature of Deposit  
Accessibility: Good
Site Located on Plate: IV
Status of Site  
Open Materials Site; Not Sampled

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**COUPLING DATA**

Geological Age  
Pennsylvanian

Geological Source  
Bandera Shale Fm. - Bandera Quarry Ss. Mbr.

Material Similar To  

Specific Gravity (saturated)  

Specific Gravity (Dry)  

Los Angeles Wear  

Absorption  

Soundness  

M. C. F.  

Str. Ratio  

Remarks  

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

**Site No.** Ls+34  
**Date** September, 1975

**Material** Limestone

**County** Bourbon

**Location** NE ¼ Sec. 20 Twp. 25S Range R24E

**Owner** Ruth J. Cleaver, Rt. 3, Ft. Scott, Kansas

**Wet Accessability** Good  
**Site Located on Plate** IV

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

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**EXPLORATION DATA**

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**CORRELATION DATA**

**Geological Age** Pennsylvanian

**Geological Source** Pawnee Ls. Fm. - Laberdie Ls. Mbr.

**Material Similar To**

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

**Los Angeles Wear**

**Absorption**

**Soundness**

**Wt. Cu. Ft.**

**Str. Ratio**

**Remarks**

---

*Scale: 1" = ½ mile*
**MATERIAL SITE DATA FORM**

Site No. Ls+ 35  
Date November, 1974

Material Limestone  
County Bourbon

Location NE 3/4 Sec. 19  
Twp. 25  
Range 25

Owner Omer K. Thogmartin, Rt. 2, Ft. Scott, Kansas

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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### CORRELATION DATA

Geological Age Pennsylvania  
Geological Source Fort Scott Ls. Fm.-Higginsville Ls. Mbr.

Material Similar To

Specific Gravity (Sat.)  
Los Angeles Wear  
Absorption  
Unit Cu.Ft.  
Str. Ratio  
Remarks

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

Site No. Ef  
Material: Limestone  
County: Bourbon  
Location: NE 1/4 Sec. 27 Twp. 25S Range 24E  
Owner: Elmer E. Richardson, Rt. 3, Ft. Scott, Kansas  
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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CORRELATION DATA

Geological Age:  
Geological Source: Fort Scott Ls. Fm. - Higginsville Ls. Mbr.  
Material Similar To:  
Specific Gravity (Nat.): (Dry)  
Los Angeles Bear:  
Absorption:  
Boundness:  
Wt. Co.Ft.:  
Str. Ratio:  
Remarks:  

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

Site No. Ls+37Fs

Date: September, 1975

Material: Limestone

County: Bourbon

Location: NE ¼ Sec. 12 Twp. 26S Range 21E

Owner: Ralph Stewart, Rt. 2, Moran, Kansas

Nature of Deposit: Dry

Accessibility: Good

Site Located on Plate: V

Status of Site: Open Materials Site; Not Sampled

EXPLORATION DATA

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CORRELATION DATA

Geological Age: Pennsylvanian

Geological Source: Swope Ls. Fm. - Bethany Falls Ls. Mbr.

Material Similar To:

Specific Gravity (Sat.): (Dry)

Los Angeles Wear

Absorption

Soundness

Wt. Cu.Ft.

Str. Ratio

Remarks:

Scale: 1" = ½ mile
**MATERIAL SITE DATA FORM**

**Site No.** Ls+38  
**Ps**  
**Date** September, 1975  
**Material** Limestone  
**County** Bourbon  
**Location** NW ¼  
**Sec.** 7  
**Twp.** 26S  
**Range** 22E  
**Owner** Dale L. Kaufman, Humboldt, Kansas 66748  
**Nature of Deposit** Dry  
**Accessibility** Good  
**Site Located on Plate** V  
**Status of Site** Open Materials Site; Not 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</th>
<th>Wash 200</th>
<th>G.F.</th>
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### CORRELATION DATA

**Geological Age** Pennsylvanian  
**Geological Source** Swope Ls. Fm. - Bethany Falls Ls. Mbr.  
**Material Similar To**  
**Specific Gravity (Sat.)** (Dry)  
**Los Angeles Wear**  
**Absorption**  
**Soundness**  
**Mt. Cu.Ft.**  
**Str. Ratio**  
**Remarks**

Scale: 1" = ¼ mile
MATERIAL SITE DATA FORM

Ls+39
Site No. Rs
Date November, 1974

Material Limestone
County Bourbon

Location SE 1/4 Sec. 8 Twp. 26S Range 22E

Owner Albert Drake, Uniontown, Kansas

Nature of Deposit Dry
Accessibility Good

Status of Site Open Materials Site: Not Sampled

EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of Overburden | Depth of Material | Percent Retained | Wash 200 | G.F. | L.L. | P.I.
|-----------|-----------------------------|---------------------|------------------|-----------------|----------|------|-----|-----|

| | | | | | | | | |

CORRELATION DATA

Geological Age Pennsylvanian

Geological Source Swope Ls. Fm. - Bethany Falls Ls. Mbr.

Material Similar To

Specific Gravity (Sat.) (Dry)

Los Angeles Hardness

Absorption Soundness

Mt. Co.Ft. Str. Ratio

Remarks

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

Site No. Pp
Site Date September, 1975

Material Limestone
County Bourbon

Location SE 1/4 Sec. 9 Twp. 26S Range 23E
Owner Darla Dee Lathrom, et al, 2257 S. Old Manor Rd., Wichita, Ks. 67218
Nature of Deposit Dry
Accessibility Good
Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

<table>
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<th>Test Hole</th>
<th>Material at Bottom of Hole</th>
<th>Depth of Overburden</th>
<th>Percent Retained 1/2</th>
<th>3/4</th>
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<th>Wash</th>
<th>C.F.</th>
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CORRELATION DATA

Geological Age Pennsylvanian
Geological Source Pawnee Ls. Fm. - Myrick Station Ls. Mbr.
Material Similar To

Specific Gravity (Sat.) (Dry)
Los Angeles Wear
Absorption Soundness
Wt. C.F.t. Str. Ratio
Remarks
MATERIAL SITE DATA FORM

Silt No. Ps

Material: Limestone
County: Bourbon

Location: NE 1/4 Sec. 14 Twp. 26S Range 21E

Owner: State of Kansas, Fish & Game Comm., Pratt, Kansas

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

Status of Site: Open Materials Site; Not Sampled

EXPLORATION DATA

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CORRELATION DATA

Geological Age: Pennsylvanian
Geological Source: Swope Ls. Fm. - Bethany Falls Ls. Mbr.

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

Site No. Ls+42       Date November, 1974

Material Limestone       County Bourbon
Location SW 3/4 Sec. 19 Twp. 26S Range 22E
Owner Kaley Blythe (J.K. Corp.), Uniontown, Kansas

Nature of Deposit Dry       Accessibility Good       Site Located on Plate V

Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

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<th>Test Hole</th>
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CORRELATION DATA

Geological Age          Pennsylvanian
Geological Source       Swope Ls. Fm. - Bethany Falls Ls. Mbr.
Material Similar To     
Specific Gravity (Nat.)  (Dry)
Los Angeles Wear        
Assorption              Soundness
Unit Cu.Ft.              Str. Ratio
Remarks                  

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

Ls+44  

Site No.  Fp  

Date  September, 1975  

Material  Limestone  

County  Bourbon  

Location  NE ¾  NW ¾  Sec. 14  

Twp. 27S  

Range 23E  

John J. Towner, Pittsburg, Kansas  

Nature of Deposit  Dry  

Accessibility  Good  

Site Located on Plate V  

Status of Site  Open Materials Site; Not Sampled  

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CORRELATION DATA

Geological Age  Pennsylvania  

Geological Source  Pawnee Ls. Fm. - Myrick Station Ls. Mbr.  

Material Similar To  

Specific Gravity (Sat.)  (Dry)  

Los Angeles Wear  

Absorption  

Soundness  

Wt. Cu.Ft.  

Str. Ratio  

Remarks  

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

Site No. 115

Limestone

County Bourbon

Location SW 1/4 NW 1/4 Sec. 14 Twp. 27S Range 23E

Owner I. F. Ricketts, Rt. 5, Ft. Scott, Kansas

Nature of Deposit

Accessibility

Site Located on Plate

Status of Site

Open Materials Site; Not Sampled

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

Geological Age
Pennsylvanian

Geological Source
Pawnee Ls. Fm. - Myrick Station Ls. Mbr.

Material Similar To

Specific Gravity (Sat.) (Dry)

Los Angeles Wear

Absorption

Soundness

Wt. Cu.Ft.

Str. Ratio

Remarks

Scale: 1" = ¼ mile
MATERIAL SITE DATA FORM

Site No. Ls+46
Pp

Date September, 1975

Material Limestone
Bourbon

Location NW 1/4 SW 1/4
1st Section 26S 24E
NE 1/4 SE 1/4
Sec. 24 Twp. 26S Range 23E

Owner Joe O'Bryan-O'Bryan Ranch, Hiattville, Kansas

Nature of Deposit Dry
Accessibility Good
Site Located on Plate VI

Status of Site Open Materials Site; Not Sampled

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<thead>
<tr>
<th>Test Hole</th>
<th>Material at Bottom of Hole</th>
<th>Depth of Material</th>
<th>Depth Percent Retained (1/2) 3/4 3/8 4 8 16 30 50 100</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 Pennsylvania

Geological Source Pawnee Ls. Fm. - Labardie Ls. Mbr.

Material Similar To

Specific Gravity (Sat.)

Los Angeles Tear

Absorption Soundness

Wt. O.C.F. Str. Ratios

Remarks

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Scale: 1" = ¼ mile
MATERIAL SITE DATA FORM

Ls+47
Site No. Rp

Date September, 1975

Material Limestone

County Bourbon

Location NE 1/4 Sec. 25

Twp. 26S

Range 24E

Owner Paul Verne Cummings, 1240 S. Crawford, Ft. Scott, Ks

Nature of Deposit Wet

Accessibility Good

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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CORRELATION DATA

Geological Age Pennsylvanian

Geological Source Pawnee Ls. Fm. - Laberde Ls. Mbr.

Material Similar To

Specific Gravity (Sat.) (Dry)

Los Angeles Wear

Absorption Soundness

M. Cu.Ft. Str. Ratio

Remarks

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

Site No. L6148  Date September, 1975

Material Limestone  County Bourbon

Location NW 1/4  Sec. 32  Twp. 26S  Range 25E

Owner Harry Pellett, 315 Scott, Fort Scott, Kansas

Nature of Deposit Dry  Accessibility Good  Site Located on Plate VI

Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

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<th>Test Hole</th>
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<th>Depth of Overburden</th>
<th>Depth of Material</th>
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CORRELATION DATA

Geological Age Pennsylvanian

Geological Source Pawnee Limestone Formation - Labrador Ls. Mbr.

Material Similar To

Specific Gravity (Sat.) (Dry)

Los Angeles Wear

Absorption Soundness

Ht. Cu.Ft. 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.

Antecedent stream: A stream that maintains its original course despite subsequent uplift or deformation.

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.

Argillaceous: Containing an appreciable amount of clay.

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.

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

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

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

Concretion: Irregularly shaped nodules that occur in sedimentary rocks which form gradually by precipitation, around a definite nucleus.

Consolidated deposit: A deposit of limestone, shale, or sandstone. In Kansas, this term generally applies to rock older than Pliocene age.

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

**Facies change:** A lateral or vertical variation in the lithologic or paleontologic characteristics of sedimentary deposits caused by a change in the depositional environment.

**Fine sand:** An aggregate of consolidated minerals or rock particles, the dimensions of which are not less than 0.05 of a millimeter and not more than 0.42 of a millimeter. The term refers to size of grain and not to composition; however, since most sands are composed of quartz and feldspar, and the term is used without qualifications, a siliceous composition is implied.

**Flaggy:** Descriptive of a sedimentary rock that splits into layers from 1 cm to 5 cm in thickness.

**Fluvial deposit:** A sedimentary deposit consisting of material transported by, suspended in, or laid down by a river or stream.

**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.

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

**Geologic process:** Term pertaining to erosion, deposition, and diastrophic methods by which the earth's surface has been shaped.

**Geologic structure:** The attitude of the rock units (i.e., whether they are horizontal or tilted).

**Geologic system:** A term that refers to rocks or deposits that were laid down during a particular geologic period (e.g. the Pennsylvanian, Permian, and Quaternary).

**Geologic unit:** A general term used to denote a geologic formation, member, or an unconsolidated deposit.

**Gradation factor:** The value obtained by adding the percentages of material retained on the 1½", 3/4", 3/8", 4, 8, 16, 30, 50 and 100 sieves, respectively and dividing the sum by 100.


**Ground-water:** That part of the subsurface water that is the zone of saturation, including underground streams.
Igneous rocks: Rocks produced from molten or partly molten material.

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.


Lithographic limestone: A very fine-grained, dense, light-colored limestone.

Lithology: Physical properties of rocks such as grain size, mineral content, and color.


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.

Micaceous: Consisting of, containing, or pertaining to mica.

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.

Prospective materials site: A location where the geologic conditions are favorable for finding and producing construction aggregate.
Residual soil: In place soil material resulting from the decomposition of rock.


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

Spoil: Waste material removed in mining, quarrying or excavating.

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.

Stream meander: One of a series of beds or curves in the course of a stream caused by lateral movement of a stream in its valley.

Strength ratio: Determined by tests performed in accordance with A.A.S.H.O. designation T19.

Talus: Rock fragments derived from and lying at the base of a steep, rocky slope.

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.

Vadose: Water above the permanent groundwater level.

Wash: (Material passing the no. 200 sieve). Determined by tests performed in accordance with A.A.S.H.O. designation T11.

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

Weight per cubic foot: Determined by tests performed in accordance with A.A.S.H.O. designation T19.
Selected References


