OPEN MATERIALS SITES; SAMPLED

LEGEND

==== Trail or lane

Road

Railroad

Hedge or trees

Name

Major streams

Intermittent streams

Pond or lake

■ Open materials sites; sampled

● Open materials sites; not sampled

▼ Prospective materials sites; sampled

◆ Prospective materials sites; not sampled

5 Center of section

□ Dwelling

† Cemetery

□ School

□ Church

Town or city
MATERIAL SITE DATA FORM

LS+1

Site No. PbW

Date Nov. 1968

Material Limestone

County Greenwood

Location SW_1 NW_2 NE_3 Sec. 16 Twp. 22 Range 11

Owner Billy D. Greenwood

1211 N. Oak, Eureka, Ks.

Nature of Deposit dry

Accessibility Fair

Site Located on Plate 1

Status of Site Open Site; sampled

EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of Overburden | Depth of Material | 1½ | ¾ | 3/8 | 4 | 8 | 16 | 30 | 50 | 100 | Wash | G.F. | L.I. | P.L. |
|-----------|---------------------------|---------------------|------------------|-----|---|-----|---|---|----|----|----|-----|------|------|------|------|------|

| Test Hole | Material at Bottom of Hole | Depth of Overburden | Depth of Material | 1½ | ¾ | 3/8 | 4 | 8 | 16 | 30 | 50 | 100 | Wash | G.F. | L.I. | P.L. |
|-----------|---------------------------|---------------------|------------------|-----|---|-----|---|---|----|----|----|-----|------|------|------|------|------|

| Test Hole | Material at Bottom of Hole | Depth of Overburden | Depth of Material | 1½ | ¾ | 3/8 | 4 | 8 | 16 | 30 | 50 | 100 | Wash | G.F. | L.I. | P.L. |
|-----------|---------------------------|---------------------|------------------|-----|---|-----|---|---|----|----|----|-----|------|------|------|------|------|

| Test Hole | Material at Bottom of Hole | Depth of Overburden | Depth of Material | 1½ | ¾ | 3/8 | 4 | 8 | 16 | 30 | 50 | 100 | Wash | G.F. | L.I. | P.L. |
|-----------|---------------------------|---------------------|------------------|-----|---|-----|---|---|----|----|----|-----|------|------|------|------|------|

| Test Hole | Material at Bottom of Hole | Depth of Overburden | Depth of Material | 1½ | ¾ | 3/8 | 4 | 8 | 16 | 30 | 50 | 100 | Wash | G.F. | L.I. | P.L. |
|-----------|---------------------------|---------------------|------------------|-----|---|-----|---|---|----|----|----|-----|------|------|------|------|------|

| Test Hole | Material at Bottom of Hole | Depth of Overburden | Depth of Material | 1½ | ¾ | 3/8 | 4 | 8 | 16 | 30 | 50 | 100 | Wash | G.F. | L.I. | P.L. |
|-----------|---------------------------|---------------------|------------------|-----|---|-----|---|---|----|----|----|-----|------|------|------|------|------|

| Test Hole | Material at Bottom of Hole | Depth of Overburden | Depth of Material | 1½ | ¾ | 3/8 | 4 | 8 | 16 | 30 | 50 | 100 | Wash | G.F. | L.I. | P.L. |
|-----------|---------------------------|---------------------|------------------|-----|---|-----|---|---|----|----|----|-----|------|------|------|------|------|

| Test Hole | Material at Bottom of Hole | Depth of Overburden | Depth of Material | 1½ | ¾ | 3/8 | 4 | 8 | 16 | 30 | 50 | 100 | Wash | G.F. | L.I. | P.L. |
|-----------|---------------------------|---------------------|------------------|-----|---|-----|---|---|----|----|----|-----|------|------|------|------|------|

CORRELATION DATA

Geological Age Pennsylvanian

Geological Source Bern Limestone Formation - Wakarusa Member

Material Similar To Aggregate tested under SHC Lab. No. 50022

Specific Gravity (Sat.) 2.67 (Dry) 2.64

Los Angeles Wear 26.4 (A)

Absorption 1.08 Soundness 0.85

Wt. Cu. Ft. Str. Ratio

Remarks

Photo No. 13-27 & 26
MATERIAL SITE DATA FORM

LS+2

Date November 1968

Site No.  

Material Limestone

County Greenwood

Location SW 1/4 Sec. 24 Twp. 22 Range 12

Owner Robert F. Frankhouser Madison, Ks.

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 at Material</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>1 1/2 3 3/8 4 8 16 30 50 100 Wash 200 G.F. LL P.I.</td>
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</table>

CORRELATION DATA

Geological Age Pennsylvanian

Geological Source Topeka Limestone Formation - Curzon Member

Material Similar To Material reported under SHC Lab No.

65-1487

Specific Gravity (Sat.) 2.58 (Dry) 2.53

Los Angeles Wear 31.8 (B)

Absorption 1.90 Soundness 0.97

Wt. Cu. Ft. Str. Ratio

Remarks

Photo No. 13-42 & 43

Scale: 1 Inch = ¼ Mile

Lemont
MATERIAL SITE DATA FORM

Site No. LS+3

Date November 1968

Material Limestone

County Greenwood

Location NE¼ Sec. 31 Twp. 22 Range 13

Owner L. Schwab Christie

Accessibility Good

Nature of Deposit dry

Site Located on Plate II

Status of Site Open site; sampled

EXPLORATION DATA

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

Geological Age Pennsylvanian

Geological Source Topeka Limestone Formation - Hartford Member

Material Similar To Material Reported Under SHC Lab No. 68-389

Specific Gravity (Sat.) 2.62 (Dry) 2.57

Los Angeles Wear 36.1 (B)

Absorption 1.71 Soundness 0.99

Wt. Cu. Ft. Str. Ratio

Remarks

Photo No. 13-42 & 43

Scale: 1 inch = ½ Mile
MATERIAL SITE DATA FORM

Site No. LS+4

Date November 1968

Material Limestone

County Greenwood

Location NE 1/4 SW 1/4 Sec. 33 Twp. 23 Range 11

Owner Robert L. Carson

Address Hamilton, Kansas

Nature of Deposit Dry

Accessibility Good

Site Located on Plot 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>Depth of Material</th>
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<th>¾</th>
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<th>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 Pennsylvanian

Geological Source Bern Limestone Formation-Wakarusa Member

Material Similar To Aggregate tested under KDOT Lab. No. 77-291

Specific Gravity (Sat.) 2.60 (Dry) 2.53

Los Angeles Wear 26 (B)

Absorption 2.8

Soundness

Wt. Cu. Ft. Str. Ratio

Remarks

Photo No. 15-10 & 11
MATERIAL SITE DATA FORM

LS+5

Date: November 1968

Site No.:

Material: Limestone

County: Greenwood

Location: SW144 Sec. 11 Twp. 23 Range 12

Owner: Elsie O. Porter 421 N. Oak, Eureka, Ks.

Nature of Deposit: Dry

Accessibility: Good

Site Located on Plate V

Status of Site: Open Site; sampled

EXPLORATION DATA

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CORRELATION DATA

Geological Age: Pennsylvanian

Geological Source: Topeka Limestone Formation-Hartford/Curzon Mbr.

Material Similar To: SHC Form G19 No. 37-23

Specific Gravity (Sat.): 2.61 (Dry) 2.55

Los Angeles Wear: 34. 3% (B)

Absorption: 2.17% Soundness: 0.98

Wt. Cu. Ft.: Str. Ratio:

Remarks: 1965

Photo No. 14-3
MATERIAL SITE DATA FORM

CG-6
Qt
November 1968

Site No. .......................... Date ......................

Clay-Gravel ........................ County ............... Greenwood

Material .......................... County ............... Greenwood

Location .......................... Sec. ........................ 36

Twp. .......................... Range ...................... 12

Owner .......................... Name ................. N. L. Tomlin

Address .......................... Virgil, Kansas

Nature of Deposit ................. Dry ........................ Accessibility ................. Good

Site Located on Plate .............. V

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 Over-Burden</th>
<th>Depth of Material</th>
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CORRELATION DATA

Geological Age .................... Quaternary (Nebraskan-Kansan)

Geological Source ................. Terrace Deposits - Chert Gravel

Material Similar To ............... Aggregate tested under Lab No. 63300

Graduation only, sample processed to remove clay before sieve analysis.

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

Los Angeles Wear .................

Absorption ........................

Soundness ........................

Wt. Cu. Ft. ......................

Str. Ratio ........................

Remarks ..........................

Photo No. 15-4 & 5

Scale: 1 inch = 1/4 Mile
MATERIAL SITE DATA FORM

LS+7

<table>
<thead>
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<th>Site No.</th>
<th>Date</th>
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<td>Material</td>
<td>County</td>
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<td>Location</td>
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<td>Owner</td>
<td>Harshman Farms Inc.</td>
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<td>Nature of Deposit</td>
<td>Dry</td>
<td>Accessibility</td>
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<tr>
<td>Status of Site</td>
<td>Open Site; Sampled</td>
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EXPLORATION DATA

|-----------|---------------------------|-------------------|-----------------------|----|----|----|---|---|----|---|----|----|--------|------|------|------|

CORRELATION DATA

Geological Age: Pennsylvanian

Geological Source: Topeka Limestone Formation - Curzon Member

Material Similar To: 

Specific Gravity (Sat.): 2.56 (Dry) 2.50

Los Angeles Wear: 29. % (B)

Absorption: 2.4%

Wt. Cu. Ft.:

Remarks: No quarry visible in aerial photos.

1976 Photo No. 14-1, 2 & 3
MATERIAL SITE DATA FORM

LS+8
#

Site No. Limestone

Material Greenwood

County

Location NE 1/4, NE 1/4 Sec. 4 Twp. 25 Range 12

Owner Allen DuBois Neal, Kansas

Nature of Deposit Dry

Accessibility Good

Status of Site Open Site; sampled

EXPLORATION DATA

<table>
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<tr>
<th>Test Hole</th>
<th>Material at Bottom of Hole</th>
<th>Depth of Overburden</th>
<th>Depth Material</th>
<th>1 1/2</th>
<th>3/4</th>
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<th>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 Pennsylvanian

Geological Source Lecompton Limestone Formation-Avoca Member

Material Similar To Material reported under SHC Lab No. 96836

Specific Gravity (Sat.) 2.71 (Dry) 2.68

Los Angeles Wear 22.6 (B)

Absorption 1.22 Soundness 0.97

Wt. Cu. Ft. Str. Ratio

Remarks Date tested - 3-14-57

Photo No. 15-54 & 55
MATERIAL SITE DATA FORM

Site No.  LS+9  
Fbw  
Date  November 1968  
County  Greenwood  
Material  Limestone  
Location  NW$	ext{e}_2$, Sec. 13, Twp. 26, Range 9  
Owner  John G. Borst 402 N. Mulberry, Eureka, Ks.  
Nature of Deposit  Dry  
Accessibility  Good  
Site Located on Plate  X  
Status of Site  Open site; 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>1½</th>
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<th>Wash 200</th>
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CORRELATION DATA

Geological Age  Pennsylvanian  
Geological Source  Bern Formation - Wakarusa Member  
Material Similar To  SHC 619 No. 37-29 Lab. No. 18215  Lab. No. 81-1057  
Specific Gravity (Sat.)  2.62 (Dry)  2.58  
Los Angeles Wear  26.0% (B)  
Absorption  1.9%  
Wt. Cu. Ft.  Str. Ratio  
Remarks  Most recent test. 1981  
Photo No. 16-17 & 18

Scale: 1 inch = ¼ Mile
MATERIAL SITE DATA FORM

LS+10
Pbw

Site No. Date
November 1968

Material: Limestone
County: Greenwood

Location: E1/2 SW1/4 Sec. 31 Twp. 25 Range 10

Owner: Floy T. George
Address: Eureka, Ks.

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

Status of Site: Open site; sampled

EXPLORATION DATA

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CORRELATION DATA

Geological Age: Pennsylvanian
Geological Source: Bern Formation - Wakarusa Member

Material Similar To:

Specific Gravity (Sat.) 2.59 (Dry) 2.49
Los Angeles Wear 35.0% (C)
Absorption 3.9% Soundness 0.95
Wt. Cu. Ft. Str. Ratio

Remarks: Tested 9-1978

Photo No. 15-114 & 115
MATERIAL SITE DATA FORM

LS+11

Date November 1968

Material Limestone

County Greenwood

Location NW 1/4 NW 1/4 Sec. 18

Twp. 26 Range 10

Owner Howard Shinkle

307 S. Mulberry, Eureka, Ks.

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 Burden</th>
<th>Depth of Material</th>
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CORRELATION DATA

Geological Age Pennsylvanian

Geological Source Bern Formation - Wakarusa Member

Material Similar To SHC 619 No. 37-25 Lab. No. 32306

Specific Gravity (Sat.) 2.57 (Dry) 2.50

Los Angeles Wear 29.2 (B)

Absorption 2.77 Soundness 0.98

Wt. Cu. Ft. Str. Ratio

Remarks Last test 1964

Photo No. 16-17 & 18
MATERIAL SITE DATA FORM

Site No. LS+12  
Date November 1968  

Material Limestone  
County Greenwood  

Location NW¼ Sec. 31 Twp. 25 Range 10  
Owner Phyllis Huntington  
Address Eureka, Ks.  

Nature of Deposit: Dry  
Accessibility: Good  
Site Located on Plate: IX  
Status of Site: Open site; sampled  

EXPLORATION DATA

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<th>Depth of Material</th>
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<th>Wash 200</th>
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<th>L.L.</th>
<th>P.I.</th>
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CORRELATION DATA

Geological Age: Pennsylvanian  
Geological Source: Bern Limestone Formation - Wakarusa Member  
Material Similar To:  
Specific Gravity (Sat.) 2.58  (Dry) 2.51  
Los Angeles Wear 28%  
Absorption 3.1%  Soundness 0.97  
Wt. Cu. Ft.  
Str. Ratio  
Remarks  

Photo No. 15-114 & 115
MATERIAL SITE DATA FORM

LS+13

Site No. 17bw  Date  November 1968

Material  Limestone  County  Greenwood

Location  NW 1/4 NE 1/4  Sec.  5  Twp.  26  Range  10

Owner  R. Wixson  Eureka, Ks.

Nature of Deposit  Dry  Accessibility  Fair  Site Located on Plate  X

Status of Site  Open site; sampled

EXPLORATION DATA

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</table>

CORRELATION DATA

Geological Age  Pennsylvanian

Geological Source  Bern Limestone Formation - Wakarusa Member

Material Similar To  Material Reported under SHC Lab No. 81546

Specific Gravity (Sat)  2.61 (Dry)  2.55

Los Angeles Wear  31.5 (B)

Absorption  2.22  Soundness  0.90

Wt. Cu. Ft.  Sh. Ratio

Remarks

Photo No. 15-129 & 130

Scale: 1 inch = 1/4 Mile
**MATERIAL SITE DATA FORM**

**Site No.:** LS+14  
**Material:** Limestone  
**County:** Greenwood  
**Location:** NW1/4 Sec. 16 Twp. 26 Range 11  
**Owner:** Harold & Ida Marie Beck  
**Address:** RFD No. 2, Eureka, Ks.  
**Nature of Deposit:** Dry  
**Accessibility:** Good  
**Site Located on Plate:** X  
**Status of Site:** Open site; sampled

**EXPLORATION DATA**

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<th>Material at Bottom of Hole</th>
<th>Depth of Material</th>
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</table>

**CORRELATION DATA**

**Geological Age:** Pennsylvanian  
**Geological Source:** Topeka Limestone - Curzon Member  
**Material Similar To:**

**Specific Gravity (Sat.):** 2.60 (Dry) 2.53  
**Los Angeles Wear:** 25% (B)  
**Absorption:** 2.9  
**Soundness:** 0.99

**Remarks:** 1973 Test Data (73-3551)  
**Photo No.:** 16-11 & 12

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

Site No. LS+15
Date November 1968

Material Limestone
County Greenwood

Location S\(\frac{1}{4}\) W\(\frac{1}{4}\) Sec. 16 Twp. 26 Range 11
Owner C. R. Vinson & Leola Y. Cisen

Nature of Deposit Dry
Accessibility Good
Site Located on Plate X
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>1 1/2</th>
<th>3/8</th>
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<th>Wash 200</th>
<th>G.F.</th>
<th>L.L.</th>
<th>P.I.</th>
</tr>
</thead>
</table>

CORRELATION DATA

Geological Age Pennsylvanian
Geological Source Topeka Limestone Formation - Curzon Member

Material Similar To

Specific Gravity (Sat.) 2.58 (Dry) 2.50

Los Angeles Wear 28% (B)

Absorption 3.1% Soundness 0.95

Wt. Cu. Ft. Str. Ratio

Remarks From 1972 test (72-455)

Photo No. 16-12
MATERIAL SITE DATA FORM

LS+16

Site No.   Date       November 1968

Limestone

Material       County       Greenwood

NE1/4 NW1/4 NW1/4 Sec.  21   Twp.  26   Range  11

Location

W. E. Hughes 1202 N. Main, Eureka, Ks.

Owner

Name

Nature of Deposit Dry

Accessibility Good

Site Located on Plate X

Status of Site Open site; sampled

EXPLORATION DATA

<table>
<thead>
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<th>Test</th>
<th>Material at Bottom of Hole</th>
<th>Depth of Overburden</th>
<th>Depth of Material</th>
<th>1 1/2</th>
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<th>P.I.</th>
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</table>

CORRELATION DATA

Pennsylvanian

Geological Age

Topeka Limestone Formation-Curzon Member

Geological Source

Material Similar To

SHC Form 619 No. 37-31

Specific Gravity (Sat.) 2.50 (Dry) 2.40

Los Angeles Wear 36.6 (B)

Absorption 4.46

Soundness 0.94

Wt. Cu. Ft. Str. Ratio

Remarks Most recent test (17348)

Photo No. 16-12

Scale: 1 inch = 1/4 Mile
MATERIAL SITE DATA FORM

LS+17
Wts

Date November 1968

Limestone Greenwood

Location NE Sec. 34 Twp. 25 Range 11

G. R. Blake Tonovay, Ks.

Dry Good

Open Site; sampled

EXPLORATION DATA

Test Hole Material at Bottom of Hole Depth of Overburden Depth of Material 1 1/2 3/4 3/8 4 8 16 30 50 100 Wash 200 G.F. LL P.I.

CORRELATION DATA

Geological Age Pennsylvanian

Geological Source Topeka Formation - Sheldon Member

Material Similar To SHIC Form 619 No. 37-27

Lab No. 70-3592

Specific Gravity (Sat.) 2.57 (Dry) 2.49

Los Angeles Wear 25.1

Absorption 2.88 Soundness 0.87

Wt. Cu. Ft. Str. Ratio

Remarks Most recent test 1-71

Photo No. 15-108
MATERIAL SITE DATA FORM

**Site No.**  LS+18  
**Material**  Limestone  
**County**  Greenwood  
**Location**  NE\(\frac{3}{4}\)  
**Twp.**  26  
**Range**  11  
**Owner**  Harold G. Boone  
**Address**  Tonoyay, Kansas  
**Nature of Deposit**  Dry  
**Accessibility**  Good  
**Remarks**  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>Depth of Material</th>
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**CORRELATION DATA**

**Geological Age**  Pennsylvanian  
**Geological Source**  Topeka Limestone Fm - Hartford/Curzon Member  
**Material Similar To**  

| Specific Gravity (Sat.) | 2.59  
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<td>(Dry)</td>
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<td>Los Angeles Wear</td>
<td>33 %</td>
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<tr>
<td>Absorption</td>
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<tr>
<td>Soundness</td>
<td>0.94</td>
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<td>Wt. Cu. Ft.</td>
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<tr>
<td>Str. Ratio</td>
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**Remarks**  Test date 1978 (78-124)  
**Photo No.**  15-137 & 138  

Scale: 1 inch = \(\frac{3}{4}\) Mile
MATERIAL SITE DATA FORM

Site No. LS+19  
Date November 1968  
Material Limestone  
County Greenwood  
Location SW1/4 NW1/4 Sec. 10  
Twp. 26  
Range 13  
Owner Charles E. Williams  
Address Toronto, Ks.  
Nature of Deposit Dry  
Accessibility Good  
Site Located on Plte. XI  
Status of Site Open Site; sampled

EXPLORATION DATA

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<th>Depth of Material</th>
<th>Depth of Overburden</th>
<th>Wash 200</th>
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<th>L.T.</th>
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CORRELATION DATA

Geological Age Pennsylvania

Geological Source Oread Limestone Fm - Toronto Mbr.

Material Similar To

Specific Gravity (Sat) 2.59 (Dry) 2.52

Los Angeles Wear 28.2% (B)

Absorption 2.67% Soundness 0.97

Wt. Cu. Ft.  
Str. Ratio

Remarks Tested 1962 (21 425)

Photo No. 15-143 & 144

Scale: 1 inch = ½ Mile
MATERIAL SITE DATA FORM

LS+21

Date
November 1968

Limestone
Greenwood

County

Location
N 43°50'45" W 94°49'54"
Sec. 19
Twp. 27
Range 10

Owner

Address
Climax, Ks.

Nature of Deposit
Dry

Accessibility
Fair

Site Located on Plate
XII

Status of Site
Open site; sampled

EXPLORATION DATA

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<th>Depth of Overburden</th>
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<th>Wash</th>
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<th>L.I.</th>
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CORRELATION DATA

Geological Age
Pennsylvanian

Geological Source
Bern Limestone Fm. - Wakarusa Member

Material Similar To
Material reported under SHC Lab. No. 85456

Specific Gravity (Sat.)
2.58

(Dry) 2.53

Los Angeles Wear
25.0 (B)

Absorption
1.96 %

Soundness
0.98

Wt. Cu. Ft.

Str. Ratio

Remarks
Tested 1954 (85456)

Photo No. 16-65 & 66
MATERIAL SITE DATA FORM

Site No. LS+22  Date: November 1968

Material: Limestone  County: Greenwood

Location: NE§ Sec. 8  Twp. 27  Range 10

Owner: Pauline E. Anspaugh etal 1301 E. River, Eureka, Ks.

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

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>Depth of Material</th>
<th>Wash 200</th>
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CORRELATION DATA

Geological Age: Pennsylvanian

Geological Source: Bern Limestone Fm. - Wakarusa Mbr.

Material Similar To:  

Specific Gravity (Sat.) 2.54 (Dry) 2.48

Los Angeles Wear 33% (B)

Absorption 2.5%  Soundness 0.99

Wt. Cu. Ft.  

Remarks: Tested 1977 (77-1110)

Photo No. 16-64 & 65

Scale: 1 Inch = ¼ Mile
MATERIAL SITE DATA FORM

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<td>Material</td>
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<td>Owner</td>
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<td>Nature of Deposit</td>
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EXPLORATION DATA

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CORRELATION DATA

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<th>Geological Age</th>
<th>Bern Ls. Fm. - Wakarusa Mbr.</th>
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<td>Tested 1976 (76-3436)</td>
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Specific Gravity (Sat.) 2.64 (Dry) 2.61
Los Angeles Wear 37 % (B)
Absorption 1.2 %
Wt. Cu. Ft. Str. Ratio
Remarks The quality of the limestone may vary greatly because of lithologic changes (reefing) at location. Photo No. 16-15
MATERIAL SITE DATA FORM

Site No. LS+24  
Date November 1968  

Material Limestone  
County Greenwood  

Location SE 1/4 NE 1/4 Sec. 10  
Twp. 28  
Range 11  

Owner M.I. Blake, et al  
Sedan, Kansas  

Nature of Deposit Dry  
Accessibility Good  
Site Located on Plate XIII  

Status of Site Open Site; Sampled  

EXPLORATION DATA

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CORRELATION DATA

Geological Age Pennsylvania  
Deer Creek Fm. - Ervine Creek Mbr.  
SHC Form 619 No. 37-24  

Material Similar To  

Specific Gravity (Sat.) 2.55 (Dry) 2.48  
Los Angeles Wear 34% (B)  
Absorption 2.85%  
Soundness 0.96  
Wt. Cu. Ft.  
Str.Ratio  
Remarks Tested 1973 (73-947)  

Photo No. 16-107  
Scale: 1 inch = 1/4 mile
MATERIAL SITE DATA FORM

Site No. LS+25

Date November 1968

Material Limestone

County Greenwood

Location E 1/4 SE 1/4 SE 1/4 Sec. 10 Twp. 28 Range 11

Owner Carl H. Jorden

Address Fall River, Kansas

Nature of Deposit Dry

Accessibility Good

Site Located on Plate XIII

Status of Site Open Site; sampled

EXPLORATION DATA

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

Geological Age Pennsylvanian

Geological Source Deer Creek Fm. - Ervine Creek Mbr.

Material Similar To

Specific Gravity (Sat.) 2.55 (Dry) 2.46

Los Angeles Wear 32% (C)

Absorption 3.8% Soundness 0.98

Wt. Cu. Ft. Str. Ratio

Remarks Tested 1973 (73-3549)

Photo No. 16-108
MATERIAL SITE DATA FORM

Site No. LS+26
Location W½ NW¾ Sec. 11
Material Limestone
County Greenwood
Date November 1968
Owner M. I. Blake et al
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>
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CORRELATION DATA

Geological Age Pennsylvania
Geological Source Deer Creek Formation - Ervine Creek Member
Material Similar To

Specific Gravity (Sat.) 2.63 (Dry) 2.59
Los Angeles Wear 27.7%
Absorption 1.36% Soundness 0.98
Wt. Cu. Ft. Str. Ratio
Remarks Tested 1962 (21496)
Photo No. 16-108

Scale: 1 inch = ¼ Mile
**MATERIAL SITE DATA FORM**

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<th>Site No.</th>
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**EXPLORATION DATA**

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<th>Test Hole</th>
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<th>1/4</th>
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<th>G.F.</th>
<th>LL</th>
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**CORRELATION DATA**

Geological Age: Pennsylvanian

Geological Source: Oread Ls. Formation - Toronto Mbr.

Material Similar To: SHC Form 619 No. 37-28

<table>
<thead>
<tr>
<th>Specific Gravity (Sat.)</th>
<th>Los Angeles Wear</th>
<th>Absorption</th>
<th>Soundness</th>
<th>Wt. Cu. Ft.</th>
<th>Str. Ratio</th>
<th>Remarks</th>
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<td>2.65, 2.63</td>
<td>29.1 (B), 27.7 (B)</td>
<td>1.24, 1.36</td>
<td>0.98, 0.98</td>
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<td>Photo No. 16-104</td>
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Scale: 1 inch = 1/8 Mile
**MATERIAL SITE DATA FORM**

Site No.    | LS+28
---|---
Date      | November 1968

**Material**    | Limestone
**County**      | Greenwood

**Location**    | NE\(\frac{3}{4}\) SW\(\frac{1}{4}\)
**Sec.**        | 11
**Twp.**        | 28
**Range**       | 12

**Owner**      | C. L. Esbaugh
**Address**    | Fall River, Ks.

**Nature of Deposit**    | Dry
**Accessibility**       | Good
**Site Located on Plate** | XIV
**Status of Site**       | Open site; sampled

### EXPLORATION DATA

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<thead>
<tr>
<th>Test Hole</th>
<th>Material at Bottom of Hole</th>
<th>Depth of Overburden</th>
<th>Depth of Material</th>
<th>1/2</th>
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### CORRELATION DATA

**Geological Age**    | Pennsylvanian
**Geological Source** | Oread Ls. Fm. - Toronto Mbr.

**Material Similar To**

<table>
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<th>Specific Gravity (Sat.)</th>
<th>Dry</th>
<th>Specific Gravity (Dry)</th>
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**Los Angeles Wear**    | 26.4 % (A) |

<table>
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<th>Absorption</th>
<th>Soundness</th>
<th>Str. Ratio</th>
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<tbody>
<tr>
<td>0.93 %</td>
<td>0.83</td>
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**Wt. Cu. Ft.**

**Remarks**    | Tested 1946 (50011 & 50012)

**Photo No.**    | 16-104

**Scale**      | 1 inch = 1/4 mile
MATERIAL SITE DATA FORM

Site No.  LS+29
Date  November 1968

Material  Limestone  County  Greenwood
Location  NE 1/4 NW 1/4 NE 1/4  Sec. 1  Twp. 28  Range 12
Owner  J. H. Richerson  Fall River, Kansas
Nature of Deposit  Dry
Accessibility  Fair
Status of Site  Open site; sampled

EXPLORATION DATA

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<th>Depth of Overburden</th>
<th>Depth of Material</th>
<th>1 1/2</th>
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<th>100</th>
<th>Wash 200</th>
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<th>P.I.</th>
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CORRELATION DATA

Geological Age  Pennsylvania
Geological Source  Oread Ls. - Fm. Toronto Mbr.
Material Similar To  SHC 619 No. 37-30

Specific Gravity (Sat.)  2.62  (Dry)  2.58
Los Angeles Wear  30.7 (B)
Absorption  1.33  Soundness  0.98

Wt. Cu. Ft.  Str. Ratio  
Remarks  

Photo No. 16-103
Site No.  
Material: Chert Gravel  
County: Greenwood  
Location: NW ½ SE ¼  
Sec. 8  
Twp. 22  
Range 13  
Owner: Lee A. Blanck  
Address: Fall River, Kansas  
Date: November 1968  
Nature of Deposit: Dry  
Accessibility: Fair  
Site Located on Plate: II  
Status of Site: Open Site; sampled  

EXPLORATION DATA:

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<th>Test</th>
<th>Material at Bottom of Hole</th>
<th>Depth of Over-Burden</th>
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<th>1½</th>
<th>¾</th>
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CORRELATION DATA:

Geological Age: Quaternary (Nebraskan-Kansan)  
Geological Source: Chert Gravel - Terrace Deposit  
Material Similar To:  
Specific Gravity (Sat.): (Dry)  
Los Angeles Wear:  
Absorption: Soundness:  
Wt. Cu. Ft.: Str. Ratio:  
Remarks: Less than 12,000  
Photo No. 13-34 & 35
OPEN MATERIALS SITES; NOT SAMPLED

LEGEND

========= Trail or lane

Road

Railroad

Hedge or trees

Name

Major streams

Intermittent streams

Pond or lake

Open materials sites; sampled

Open materials sites; not sampled

Prospective materials sites; sampled

Prospective materials sites; not sampled

Center of section

Dwelling

Cemetery

School

Church

Town or city
MATERIAL SITE DATA FORM

Date: November 1968

LS+30

Site No.  

Material: Limestone  County: Greenwood

Location: SW 1/4 SW 1/4 Sec. 31 Twp. 22 Range 12

Owner: F. D. Lose  Address: Madison, KS.

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

Status of Site: Open site; not sampled

EXPLORATION DATA

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<tr>
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<th>Material at Bottom of Hole</th>
<th>Depth of Overburden</th>
<th>Depth of Material</th>
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<th>%</th>
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CORRELATION DATA

Geological Age: Pennsylvanian

Geological Source: Bern Ls. Fm. - Burlingame Mbr.

Material Similar To:

Specific Gravity (Sat.) (Dry):

Los Angeles Wear:

Absorption:

Wt. Csu. Ft.:

Str. Ratio:

Remarks:

Photo No. 13-47 & 48

Scale: 1 inch = 1/4 Mile
**MATERIAL SITE DATA FORM**

**CG+31**

- **Qt**
- **Site No.** [Blank]
- **Date** November 1968
- **Material** Chert Gravel
- **County** Greenwood
- **Location** NW¼ NW¼ NE¼ Sec. 36 Twp. 22 Range 12
- **Owner** Ralph Lutz
- **Address** Buffalo, Ks.
- **Nature of Deposit** Dry
- **Accessibility** Good
- **Status of Site** Open site; not sampled

**EXPLORATION DATA**

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

- **Geological Age** Quaternary (Nebraskan-Kansan)
- **Geological Source** Chert Gravel - Terrace Deposits
- **Material Similar To** [Blank]
- **Specific Gravity (Sat.)** [Blank] (Dry)
- **Los Angeles Wear** [Blank]
- **Absorption** [Blank]
- **Soundness** [Blank]
- **Wt. Cu. Ft.** [Blank]
- **Str. Ratio** [Blank]
- **Remarks** Photo No. 13-42 & 43

Scale: 1 Inch = ¼ Mile
MATERIAL SITE DATA FORM

Site No. CG-32

Qt

Date November 1968

Material Chert Gravel

County Greenwood

Location NE ¼ SW ¼ Sec. 8 Twp. 22 Range 13

Owner Harold Luthi

Address Gridley, Ks.

Nature of Deposit Dry

Accessibility Fair

Site Located on Plate II

Status of Site Open site; not sampled

EXPLORATION DATA

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

Geological Age Quaternary (Nebraskan-Kansan)

Geological Source Chert Gravel - Terrace Deposits

Material Similar To

Specific Gravity (Sat.)

Los Angeles Wear

Absorption Soundness

Wt. Cu. Ft. Str. Ratio

Remarks Less than 12,000 yds. of material available

Photo No. 13-34 & 35

Scale: 1 inch = ¼ Mile
MATERIAL SITE DATA FORM

Site No. LS+34
Ptcc

Date November 1968

Material Limestone
County Greenwood

Location SW\(_4\) Sec. 5
Twp. 24
Range 12

Owner W. A. Lockard
Buffalo, Ks.

Nature of Deposit
Dry
Accessibility Good
Site Located on Plate V

Status of Site Open Site; not sampled

EXPLORATION DATA

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CORRELATION DATA

Geological Age Pennsylvania

Geological Source Topeka Ls. Fm. - Coal Creek Mbr.

Material Similar To

Specific Gravity (Sat.) (Dry)

Los Angeles Wear

Absorption Soundness

Wt. Cu. Ft. Str. Ratio

Remarks Conglomeritic Limestone

Photo No. 15-7
MATERIAL SITE DATA FORM

LS+35  
Tccc

Site No.  Date  November 1968

Material  County  Greenwood

Location  NE1/4, NW1/4  Sec.  8  Twp.  24  Range  12

Owner  Glenn Sup  Buffalo, Ks.

Nature of Deposit  Dry  Accessibility  Good  Site Located on Plate  V

Status of Site  Open site; not sampled

EXPLORATION DATA

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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  Topeka Formation - Coal Creek Member

Material Similar To

Specific Gravity (Sat.)  (Dry)

Los Angeles Wear

Absorption  Soundness

Wt. Cu. Ft.  Str. Rotla

Remarks  Site Flooded - Conglomeritic Limestone

Photo No. 15-7 & 8

Scale: 1 inch = 1/4 Mile
MATERIAL SITE DATA FORM

LS+36
\( ^{\text{tcc}} \)

Date: November 1968

Site No.  

Material: Limestone  
County: Greenwood

Location: SE\(\frac{1}{4}\) NW\(\frac{1}{4}\) Sec. 8  
Twp. 24  
Range 12

Owner: Glenn Sup  
Address: Buffalo, Kansas

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

Status of Site: Open site; not sampled

EXPLORATION DATA

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CORRELATION DATA

Geological Age: Pennsylvanian

Geological Source: Topeka Formation - Coal Creek Member

Material Similar To:  

Specific Gravity (Sat):  
Los Angeles Wear:  
Absorption:  
Wt. Cu. Ft.:  
Str. Ratio:  
Remarks: Conglomeritic Limestone

Photo No. 15-7 & 8

Scale: 1 inch = \(\frac{1}{4}\) Mile
MATERIAL SITE DATA FORM

CG-37
Qt

Site No.  Date  November 1968

Material  County  Greenwood

Location  Sec.  Twp.  Range
SE 2/4 NE 2/4  26  23  12

Owner  Name  Elsie O. Porter  Address  421 N. Oak, Eureka, Ks.

Nature of Deposit  Accessibility  Dry  Fair  Site Located on Plate  V

Status of Site  Open site; not sampled

EXPLORATION DATA

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CORRELATION DATA

Geological Age  Quaternary (Nebraskan-Kansan)

Geological Source  Chert Gravel - Terrace Deposit

Material Similar To

Specific Gravity (Sat.)  (Dry)

Los Angeles Wear

Absorption  Soundness

Wt. Cu. Ft.  Str. Ratio

Remarks

Photo No. 14-35 & 36

Scale: 1 inch = 1/2 mile
MATERIAL SITE DATA FORM

CG-38
Qal

Site No. ___________________________ Date ___________________________

Chert Gravel Greenwood

Material ___________________________ County ___________________________

Location SE1/4 NE1/4 Sec. 9 Twp. 25 Range 9

Bruce R. Dunlap et al Lapland, Ks.

Owner ___________________________ address ___________________________

Nature of Deposit Dry Accessibility Fair Site Located on Plate VI

Open Site - not sampled

EXPLORATION DATA

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

Geological Age Quaternary

Geological Source Alluvium

Material Similar To

Specific Gravity (Sat.) (Dry)

Los Angeles Wear

Absorption Soundness

Wt. Cu. Ft. Str. Ratio

Remarks

Photo No. 15-78

Scale: 1 inch = ¼ mile
MATERIAL SITE DATA FORM

CG-39
Q1

Site No. __________________ Date __________________

Material Chert Gravel
County Greenwood

Location SE14 NE14 Sec. 28 Twp. 24 Range 12

Owner Linda K. Bevan
Address Buffalo, Ks.

Nature of Deposit Dry
Accessibility Good
Site Located on Plate VIII

Status of Site Open Site; not sampled

EXPLORATION DATA

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

Geological Age Quaternary (Nebraskan-Kansan)
Geological Source Chert Gravel - Terrace Deposits
Material Similar To __________________________

Specific Gravity (Sat.) ____________________ (Dry)

Los Angeles Wear ____________________________

Absorption __________________ Soundness __________________

Wt. Cu. Ft. __________________ Str. Ratio __________________

Remarks __________________

Photo No. 15-54
MATERIAL SITE DATA FORM

CG-40
Qt

Site No. Date November 1968

Material Chert Gravel County Greenwood

Location SW 4/4 NW 1/4 Sec. 27 Twp. 24 Range 12

Owner W. B. Short Hamilton, Kansas

Nature of Deposit Dry Accessibility Fair Site Located on Plate VIII

Status of Site Open site; not sampled

EXPLORATION DATA

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<tr>
<th>Test Hole</th>
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<th>Wash 200</th>
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CORRELATION DATA

Geological Age Quaternary

Geological Source Chert Gravel - Terrace Deposits

Material Similar To

Specific Gravity (Sat.) (Dry)

Los Angeles Wear

Absorption Soundness

Wt. Cu. Ft. Str. Ratio

Remarks

Photo No. 15-54
MATERIAL SITE DATA FORM

LS+41
Pfh

Date
November 1968

Limestone
County
Greenwood

Location
Sec. 1
Twp. 26
Range 8

Ralph Hardiman
Reese, Kansas

Nature of Deposit
Dry
Accessibility
Good
Site Located on Plate
TX

Status of Site
Open site; not sampled

EXPLORATION DATA

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<th>G.F.</th>
<th>LL</th>
<th>P.I.</th>
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</table>

CORRELATION DATA

Geological Age
Permian

Geological Source
Foraker Ls. Fm. - Hughes Creek Member

Material Similar To

Specific Gravity (Sat.)
(Dry)

Los Angeles Wear

Absorption
Soundness

Wt. Cu. Ft.
Str. Ratio

Remarks
"Thrall" Limestone zone

Photo No. 15-124 & 125

Scale: 1 inch = ¼ Mile
MATERIAL SITE DATA FORM

CG-42 Qt

Site No. Date November 1968

Chert Gravel County Greenwood

Location Sec. 12 Twp. 26 Range 10

Owner O. & B. Holdings, Inc. Eureka, Ks.

Nature of Deposit Dry Accessibility Fair

Status of Site Open Site; not sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test Hole</th>
<th>Material at Bottom of Hole</th>
<th>Depth of Material</th>
<th>Depth of Overburden</th>
<th>1/2</th>
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<th>G.F.</th>
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CORRELATION DATA

Geological Age Quaternary (Nebraskan-Kansan)

Geological Source Chert Gravel - Terrace Deposits

Material Similar To

Specific Gravity (Sat.) (Dry)

Los Angeles Wear

Absorption Soundness

Wt. Cu. Ft. Str. Ratio

Remarks

Photo No. 15-34

Scale: 1 Inch = 1/4 Mile
MATERIAL SITE DATA FORM

CG-43

Qt

November 1968

Site No. Date

Chert Gravel Greenwood

Material County

S 1/2 NE 1/4 Sec. 7 Twp. 26 Range 11

Location

O. & B. Holdings, Inc. Eureka, Ks.

Owner

Nature of Deposit Accessibility

Dry Fair Site Located on Plate X

Status of Site

Open Site; not sampled

EXPLORATION DATA

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<th>Test Hole</th>
<th>Material of Bottom of Hole</th>
<th>Depth of Over-Burden</th>
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</table>

CORRELATION DATA

Geological Age

Quaternary

Geological Source

Chert Gravel - Terrace Deposits

Material Similar To

Specific Gravity (Sat.) (Dry)

Los Angeles Wear

Absorption Soundness

Wt. Cu. Ft. Str. Ratio

Remarks

Photo No. 15-34

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

CG-44
Qt

Site No. Date
November 1968

Material Chert Gravel
County Greenwood

Location SW½ SE¼ Sec. 28
Twp. 26 Range 11

Owner G. H. Rice
RFD No. 2, Eureka, Ks.

Nature of Deposit Dry
Accessibility Good
Site Located on Plate X

Status of Site Open 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>1 1/2</th>
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CORRELATION DATA

Geological Age Quaternary (Nebraskan-Kansan)

Geological Source Chert Gravel - Terrace Deposit

Material Similar To

Specific Gravity (Sat.) (Dry)

Los Angeles Wear

Absorption Soundness

Wt. Cu. Ft. Str. Ratio

Remarks

Photo 16-40

Scale: 1 inch = ½ Mile
MATERIAL SITE DATA FORM

CG-45

Site No. Qt Date November 1968

Material Chert Gravel County Greenwood

Location NW \( \frac{1}{4} \) NW \( \frac{1}{4} \) Sec. 34 Twp. 26 Range 11

Owner Name Guy Shumard Address RFD 2, Eureka, Ks.

Nature of Deposit Dry Accessibility Poor Site Located on Plate X

Status of Site Open Site; Not Sampled

EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of Overburden | Depth of Material | 1½ | ¾ | 3/8 | 4 | 8 | 16 | 30 | 50 | 100 | Wash | G.F. | LL | P.I. |
|-----------|----------------------------|---------------------|------------------|-----|---|-----|---|---|----|----|----|----|------|------|-----|---|-----|
|           |                            |                     |                  |     |   |     |   |   |    |    |    |     |      |      |    |     |

CORRELATION DATA

Geological Age Quaternary (Nerbaskan-Kansan)

Geological Source Chert Gravel - Terrace Deposit

Material Similar To

Specific Gravity (Sat) (Dry)

Los Angeles Wear

Absorption Soundness

Wt. Cu. Ft. Str. Ratio

Remarks

Photo No. 16-40

Scale: 1 inch = 1/4 Mile
Material Site Data Form

CG-46

Site No.  Ot

November 1968

Date

Material Chert Gravel

County Greenwood

Location NW_\_ NW_\_ Sec. 3

Twp. 27

Range 11

Owner L. G. Twaddle

Climax, Ks.

Nature of Deposit Dry

Accessibility Fair

Site Located on Plate X

Status of Site Open site; not sampled

Exploration Data

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<th>Depth of Overburden</th>
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Correlation Data

Geological Age Quaternary (Nebraskan-Kansan)

Geological Source Chert Gravel - Terrace Deposit

Material Similar To

Specific Gravity (Sat.) (Dry)

Los Angeles Wear

Absorption Soundness

Wt. Cu. Ft. Str. Ratio

Remarks

Photo No. 16-40

Scale: 1 inch = 1/4 Mile
MATERIAL SITE DATA FORM

CG-47

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<td>Greenwood</td>
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<td>NE¼ NW¼</td>
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<td>Twp. 27</td>
<td>Range 11</td>
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<td>M. French</td>
<td>RFD No. 2 Eureka, Ks.</td>
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<td>Dry</td>
<td>Fair</td>
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<td>Site Located on Plate</td>
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<td>Open site; not sampled</td>
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EXPLORATION DATA

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<th>Test Hole</th>
<th>Material at Bottom of Hole</th>
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<th>Wash 200</th>
<th>G.F.</th>
<th>LL</th>
<th>P.I.</th>
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</table>

CORRELATION DATA

Geological Age | Quaternary (Nebraskan-Kansan)
Geological Source | Chert Gravel - Terrace Deposit
Material Similar To |
Specific Gravity (Sat.) | (Dry)
Los Angeles Wear |
Absorption | Soundness |
Wt. Cu. Ft. | Str. Ratio |
Remarks |

Photo No. 16-40
MATERIAL SITE DATA FORM

CG-48
Qt

Site No. Date
November 1968

Material County
Chert Gravel Greenwood

Location
Lat S\(\frac{1}{2}\) SE\(\frac{1}{4}\) Sec.
2 Twp 27 Range 11

U.S. Gov. USCE Fall River, Ks.

Owner
Nature of Deposit
Dry

Accessibility
Poor

Site Located on Plate X

Status of Site
Open site - not sampled

EXPLORATION DATA

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<th>L.L.</th>
<th>P.L.</th>
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</table>

CORRELATION DATA

Geological Age
Quaternary

Geological Source
Alluvium

Material Similar To

Specific Gravity (Sat.) (Dry)

Los Angeles Wear

Absorption Soundness

Scale: 1 Inch = \(\frac{1}{2}\) Mile
MATERIAL SITE DATA FORM

Site No. 115

Date November 1968

Material Limestone

County Greenwood

Location NE 1/4 NW 1/4 Sec. 16 Twp. 26 Range 13

Owner Ken J. Baker

Toronto, Ks.

Nature of Deposit Dry Accessibility Good

Site Located on Plate XI

Status of Site Open site; not sampled

EXPLORATION DATA

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<th>Material at Bottom of Hole</th>
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<th>Wash 200</th>
<th>G.F.</th>
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</table>

CORRELATION DATA

Geological Age Pennsylvanian

Geological Source Oread Ls. Fm. - Toronto Mbr.

Material Similar To

Specific Gravity (Sat.) (Dry)

Los Angeles Wear

Absorption

Wt. Cu. Ft.

Str. Ratio

Remarks

Photo 15-143

Scale: 1 inch = ½ Mile
MATERIAL SITE DATA FORM

LS+50  
Pfa  

Site No.  

Date  November 1968  

Material  Limestone  

County  Greenwood  

Location  NW 1/4 Sec. 36, Twp. 27, Range 8  

Owner  P.L. Lewis  403 E. Vermont, Eureka, Ks.  

Nature of Deposit  Dry  

Accessibility  Good  Site Located on Plate XII  

Status of Site  Open site; not sampled  

EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of Overburden | 1% | 3% | 4% | 8% | 16% | 30% | 50% | 100% | Wash | G.F. | L.L. | P.I. |
|-----------|--------------------------|---------------------|----|----|----|----|----|----|----|----|------|------|-----|-----|-----|

CORRELATION DATA

Geological Age  Permian  

Geological Source  Foraker Ls. Fm. - Americus Mbr.  

Material Similar To  

Specific Gravity (Sat.)  

Los Angeles Wear  

Absorption  

Soundness  

Wt. Cu. Ft.  Str. Ratio  

Remarks  Pit expanded to north side of tributary  

Photo 16-75  

Scale: 1 Inch = 1/2 Mile
MATERIAL SITE DATA FORM

Gr-51
Qat

Site No. __________________________ Date __________________________

Limestone
County Greenwood

Material __________________________ County __________________

Location SW1/4 SW1/4 Sec. 22 Twp. 27 Range 9

W. Newton Male
Owner __________________________ Address __________________

Nature of Deposit Dry
Accessibility Fair

Status of Site Open site; not sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test Hole</th>
<th>Material at Bottom of Hole</th>
<th>Depth of Material</th>
<th>1½</th>
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</table>

CORRELATION DATA

Geological Age Quaternary

Geological Source Alluvium

Material Similar To __________________________

Specific Gravity (Sat.) __________________________ (Dry)

Los Angeles Wear __________________________

Absorption __________________________

Wt. Cu. Ft. __________________________

Str. Ratio __________________________

Remarks __________________________

Photo No. 16-78 - 1/48

Scale: 1 Inch = 1/4 Mile
### MATERIAL SITE DATA FORM

**Gr-52**  
**Qal**  

**Site No.**  
**Date** November 1968  

**Material** Limestone Gravel  
**County** Greenwood  

**Location** NE\(^4\) NW\(^4\) Sec. 18  
**Twp.** 27  
**Range** 11  

**Owner** Leda Christlieb  
**RFD 1, Severy, Ks.**  

**Nature of Deposit** Dry  
**Accessibility** Poor  
**Site Located on Map** XIII  

**Status of Site** Open 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>1/2</th>
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</table>

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**CORRELATION DATA**

**Geological Age** Quaternary  

**Geological Source** Alluvium  

**Material Similar To**  

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

**Los Angeles Wear**  

**Absorption** Soundness  

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

**Remarks**  

**Photo No. 16-61**

---

Scale: 1 Inch = ½ Mile
**MATERIAL SITE DATA FORM**

**Site No.**

**Date**

**November 1968**

**Material**

**County**

Limestone

Greenwood

**Location**

**Twp.**

**Range**

SE 1/4, SE 1/4, NE 1/4

28

12

**U.S. Gov.**

USCE Fall River, Ks.

**Owner**

**Name**

Dry

Good

Site Located on Plate

XIV

**Nature of Deposit**

**Accessibility**

Open Site; not sampled

**Status of Site**

**EXPLORATION DATA**

<table>
<thead>
<tr>
<th>Test Hole</th>
<th>Material at Bottom of Hole</th>
<th>Depth of Material</th>
<th>Depth of Over-Burden</th>
<th>1 1/2</th>
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**CORRELATION DATA**

**Geological Age**

Pennsylvania

**Geological Source**

Oread Ls. Fm. - Toronto Mbr.

**Material Similar To**


**Specific Gravity (Sat.)**

(Dry)

**Los Angeles Wear**

Absorption

Soundness

Wt. Cu. Ft.

Str. Ratio

**Remarks**


**Photo No. 16-104**

Scale: 1 inch = 1/4 Mile
MATERIAL SITE DATA FORM

LS+54
 Lah

Site No. Date November 1968

Material Limestone County Greenwood

Location E\(\frac{3}{2}\) SE\(\frac{3}{2}\) SE\(\frac{3}{2}\) Sec. 3 Twp. 28 Range 12

Owner Robert W. Morton, etal

Nature of Deposit Dry

Accessibility Good

Site Located on Plate XIV

Status of Site Open site; not 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>Depth of Material</th>
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CORRELATION DATA

Geological Age Pennsylvania

Geological Source Oread Limestone Fm. - Toronto Mbr.

Material Similar To

Specific Gravity (Sat.) (Dry)

Los Angeles Wear

Absorption Soundness

Wt. Cu. Ft. Str. Ratio

Remarks

Photo No. 16-104
MATERIAL SITE DATA FORM

LS+55
Not

Date: November 1968

Material: Limestone
County: Greenwood

Location: SE1/4 NE1/4 SE1/4
Sec. 15
Twp. 28
Range 12

Owner: Darrell L. Ralph
Fall River, Ks.

Nature of Deposit: Dry
Accessibility: Poor
Site Located on Plate: XIV
Status of Site: Open Site; not sampled

EXPLORATION DATA

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

Geological Age: Pennsylvanian

Geological Source: Oread Fm - Toronto Mbr.

Material Similar To: 

Specific Gravity (Sat.): (Dry)

Los Angeles Wear:

Absorption: Soundness:

Wt. Cu. Ft.: Str. Ratio:

Remarks:

Photo No. 16-104
MATERIAL SITE DATA FORM

CG-56
Qt

Date November 1968

Material Chert Gravel
County Greenwood

Location NW4, NW3
Sec. 11
Twp. 28
Range 12

Robert W. Morton, et al
Fall River, Ks.

Owner

Nature of Deposit Dry
Accessibility Poor
Site Located on Plate XIV

Status of Site Open site; not sampled

EXPLORATION DATA

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<th>Depth of Overburden</th>
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Wash 200 | G.F. | L.L. | P.I. |
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CORRELATION DATA

Geological Age Quaternary

Geological Source Chert Gravel - Terrace Deposit

Material Similar To

Specific Gravity (Set) (Dry)

Los Angeles Test

Absorption

Wt. Cu. Ft.

Str. Ratio

Remarks

Photo No. 16-104
MATERIAL SITE DATA FORM

Site No. LS+57

Date November 1968

Material Limestone

County Greenwood

Location NE4/8 Sec. 35 Twp. 27 Range 12

Owner U.S. Gov. USCE Fall River, Ks.

Nature of Deposit Wet

Accessibility Good

Site Located on Plate XIV

Status of Site Open site; not sampled

EXPLORATION DATA

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CORRELATION DATA

Geological Age Pennsylvanian

Geological Source Oread Ls Fm. - Toronto Mbr.

Material Similar To

Specific Gravity (Sat.) (Dry)

Los Angeles Wear

Absorption

Soundness

Wt. Cu. Ft. Str. Ratio

Remarks Flooded by Fall River Reservoir

Photo No. 16-92 & 93
MATERIAL SITE DATA FORM

Site No. LS+58
Date November 1968

Material Limestone
County Greenwood

Location SE 1/4 NW 1/4 Sec. 36 Twp. 27 Range 12
Owner J. H. Richerson, et al

Nature of Deposit Dry
Accessibility Good
Site Located on Plate XIV

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

Geological Age Pennsylvanian

Geological Source Oread Ls. Fm. - Toronto Mbr.

Material Similar To

Specific Gravity (Sat.) (Dry)

Los Angeles Wear

Absorption

Wt. Cu. Ft.

Str. Ratio

Remarks

Photo No. 16-93
MATERIAL SITE DATA FORM

LS+59

Site No.  

Date  

November 1968

Material  

Limestone

County  

Greenwood

Location  

SW 1/4 SW 1/4 Sec. 25  
Twp. 22  
Range 12

Owner  

Roy W. Wernli  
Lamont, Ks.

Nature of Deposit  

Dry

Accessibility  

Good

Site Located on Plate  

II

Status of Site  

Perspective Site; sampled

---

EXPLORATION DATA

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CORRELATION DATA

Geological Age  

Pennsylvanian

Geological Source  

Topeka Limestone Fm. - Curzon Member

Material Similar To

Specific Gravity (Sat.)  

2.52  
(Dry)  
2.45

Los Angeles Wear  

33.0

Absorption  

2.89

Soundness  

0.98

Wt. Cu. Ft.  

Shr. Ratio

Remarks  

Tested 1964 (33537)

---

Phot No. 13-42

Scale: 1 inch = ¼ mile
MATERIAL SITE DATA FORM

LS+60 ytcc

Site No. Date November 1968

Limestone Greenwood
Material County

NE1/4 NE1/4 Sec. 5 Twp. 24 Range 12
Location

Harold L. Beuchat Hamilton, Ks.
Owner

Nature of Deposit Dry Accessibility Good Site Located on Plate V

Status of Site Prospective site; sampled

EXPLORATION DATA

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Correlation Data

Geological Age Pennsylvanian

Topeka Ls. Fm. - Coal Creek Mbr.

Geological Source Material reported under SHC Lab No. 50023 (1946)

Material Similar To

Specific Gravity (Sat.) 2.52 (Dry) 2.46

Los Angeles Wear 30.3 (A)

Absorption 2.48 Soundness 0.97

Wt. Cu. Ft. Str. Ratio Remarks This material is a conglomerate in the Coal Creek Limestone, with a limited areal distribution. Photo No. 15-7
**MATERIAL SITE DATA FORM**

**LS+67**  
**Pfa**

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<th>Nature of Deposit</th>
<th>Status of Site</th>
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<td>R. W. Watchous</td>
<td>Dry</td>
<td>Prospective Site; sampled</td>
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**EXPLORATION DATA**

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**CORRELATION DATA**

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<th>Geological Source</th>
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<tr>
<td>Permian</td>
<td>Foraker Ls. Fm. - Americus Mbr.</td>
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<th>Specific Gravity (Sat.)</th>
<th>(Dry)</th>
<th>Los Angeles Wear</th>
<th>Absorption</th>
<th>Soundness</th>
<th>Wt. Cu. Ft.</th>
<th>Str. Ratia</th>
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<td>2.55</td>
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<td>27.5 (A)</td>
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MATERIAL SITE DATA FORM

LS+62

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<th>Material</th>
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<th>Nature of Deposit</th>
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<td>NE¼ SW¼</td>
<td>Phyllis Huntington</td>
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<td>Prospective Site; Sampled</td>
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<td>Sec. 29</td>
<td>Eureka, Ks.</td>
<td>Accessibility: Good</td>
<td>Site Located on Plate: VII</td>
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<td>Twp. 25</td>
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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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<th>¾</th>
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<th>30</th>
<th>50</th>
<th>100</th>
<th>Wash 200</th>
<th>G.F.</th>
<th>L.L.</th>
<th>P.I.</th>
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CORRELATION DATA

Pennsylvania

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<th>Geological Age</th>
<th>Geological Source</th>
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<tbody>
<tr>
<td>Bern Ls. Fm. - Wakarusa Mbr.</td>
<td>Material reported under SHC Lab. No. 50001</td>
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<th>Specific Gravity (Sat.)</th>
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<th>Los Angeles Wear</th>
<th>Soundness</th>
<th>Wt. Cu. Ft.</th>
<th>Str. Ratio</th>
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<td>28.1 (A)</td>
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<th>Absorption</th>
<th>Remarks</th>
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<td>1.24</td>
<td>Tested 1946 (50001)</td>
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Photo No. 15-113

Scale: 1 inch = ¼ Mile
MATERIAL SITE DATA FORM

Site No. LS+63
Material Limestone
Location NW1/4 NW1/4 Sec. 23 Twp. 25 Range 10
Owner Ruth Colvin, et al
Nature of Deposit Dry
Status of Site Prospective Site; Sampled

EXPLORATION DATA

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<th>Material at Bottom of Hole</th>
<th>Depth of Over-Burden</th>
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CORRELATION DATA

Geological Age Pennsylvanian
Geological Source Bern 1s. Fm. - Wakarusa Mbr.
Material Similar To Material reported under SHC Lab No. 50002

Specific Gravity (Sat.)
Dry 2.58
Los Angeles Wear 31.4 (A)
Absorption 2.37

Soundness 0.95
Wt. Cu. Ft. Str. Ratio

Remarks Tested 1946 (50002-50003)

Photo No. 15-84
MATERIAL SITE DATA FORM

LS+64
Pbw

Site No. Date

Limestone Greenwood

County

Location NW ¼ SE ¼ Sec. 27 Twp. 26 Range 10

Edna H. Braden Eureka, Ks.

Owner

Nature of Deposit Dry Accessibility Fair Site Located on Plate X

Status of Site Prospective 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>Depth of Material 1½</th>
<th>%</th>
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<th>Wash 200</th>
<th>G.F.</th>
<th>L.L.</th>
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CORRELATION DATA

Pennsylvania

Geological Age

Geological Source Bern Ls. Fm. - Wakarusa Mbr.

Material Similar To Material reported under SHC Lab No. 55533

Specific Gravity (Sat) 2.62 (Dry) 2.57

Los Angeles Wear 25.3 (B)

Absorption 1.90 Soundness 0.91

Wt. Cu. Ft. Str. Ratio

Remarks Tested 1947

Photo No. 16-14 & 15
**MATERIAL SITE DATA FORM**

- **Site No.:** LS+65  
- **Date:** November 1968
- **Material:** Limestone  
- **County:** Greenwood
- **Location:** SW₁/₄ SW₂/₄  
  - **Sec.:** 27  
  - **Twp.:** 26  
  - **Range:** 12
- **Owner:** John R. Grimes  
- **Address:** Neal, Ks.
- **Nature of Deposit:** Dry  
- **Accessibility:** Good  
- **Site Located on Plate:** XI
- **Status of Site:** Prospective site; sampled

### EXPLORATION DATA

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<tr>
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<th>Material at Bottom of Hole</th>
<th>Depth of Overburden</th>
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<th>1 1/2</th>
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### CORRELATION DATA

- **Geological Age:** Pennsylvanian
- **Geological Source:** Deer Creek Fm. - Ervine Creek Member
- **Material Similar To:** Material reported under SHC Lab No. 50006

- **Specific Gravity (Sat.)** 2.50  
  - **(Dry):** 2.42
- **Los Angeles Wear** 33.0 (A)
- **Absorption** 3.19  
  - **Soundness:** 0.93

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

- **Remarks:** Tested 1946
- **Photo No.:** 16-45

Scale: 1 inch = 1/4 Mile
**MATERIAL SITE DATA FORM**

- **Site No.**: LS+66
- **Material**: Limestone
- **County**: Greenwood
- **Location**: Sec. 12, Twp. 28, Range 8
- **Owner**: Ralph E. Struthers
- **Address**: Beaumont, Texas
- **Nature of Deposit**: Dry
- **Accessibility**: Fair
- **Status of Site**: Prospective Site; Sampled

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**EXPLORATION DATA**

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<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**: Permian
- **Geological Source**: Red Eagle Ls. Fm. - "Bennet Reef" Mbr.
- **Material Similar To**: Material reported under SHC Lab. No. 50005
- **Specific Gravity (Sat.)**: 2.43 (Dry) 2.35
- **Los Angeles Wear**: 38.2 (A)
- **Absorption**: 3.30 Soundness 0.95
- **Wt. Cu. Ft.**
- **Str. Ratio**

**Remarks**

*Photo No. 16-121 & 122*
MATERIAL SITE DATA FORM

Site No.  LS+67  Date  November 1968
Prb

Material  Limestone  County  Greenwood

Location  NE 4, NE 9  Sec.  4  Twp.  28  Range  9
Wayne Davis  Blodgett, Kansas
Owner name

Nature of Deposit  Dry  Accessibility  Good
Site Located on Plate  XII

Status of Site  Prospective Site; sampled

EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of Overburden | Depth of Material 1½ | ¾ | 3/8 | 4 | 8 | 16 | 30 | 50 | 100 | Wash 200 | G.F. | L.L. | P.I. |
|-----------|---------------------------|---------------------|----------------------|---|----|---|---|----|----|----|----|-------|------|-----|----|-----|
|           |                           |                     |                      |   |    |   |   |     |     |     |     |       |      |     |    |     |
|           |                           |                     |                      |   |    |   |   |     |     |     |     |       |      |     |    |     |
|           |                           |                     |                      |   |    |   |   |     |     |     |     |       |      |     |    |     |
|           |                           |                     |                      |   |    |   |   |     |     |     |     |       |      |     |    |     |

CORRELATION DATA

Geological Age  Permian
Geological Source  Red Eagle Ls. Fm. - "Bennett Reef" mbr.
Material Similar To  Material reported under SHC Lab No. 50014

Specific Gravity (Sat.)  2.55 (Dry)  2.49
Los Angeles Wear  32.5 (A)
Absorption  2.74  Soundness  0.83
Wt. Cu. Ft.  
Str. Ratio  
Remarks  Tested 1946

Photo No. 16-77 & 78
**MATERIAL SITE DATA FORM**

- **Site No.:** LS+68
- **Date:** November 1968

**Material:** Limestone  
**County:** Greenwood

**Location:** SE 1/4 SE 1/4  
**Sec.:** 18  
**Twp.:** 27  
**Range:** 10

**Owner:** Willard L. Gettle & Jack R. Hunt, etal  
**Address:** Climax, KS

**Nature of Deposit:** Dry  
**Accessibility:** Fair  
**Site Located on Plate:** XIII

**Status of Site:** Prospective Site; sampled

### EXPLORATION DATA

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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:** Bern Ls. Fm. - Wakarusa Mbr.

**Material Similar To:** Material reported under SHC Lab No. 50004

- **Specific Gravity (Sat.):** 2.52 (Dry)  
  **Specific Gravity (A):** 2.47

- **Los Angeles Wear:** 23.4 (A)

- **Absorption:** 2.10  
  **Soundness:** 0.94

- **Wt. Cu. Ft.:**  
  **Str. Ratio:**

**Remarks:** Tested 1946

**Photo No.:** 16-65 & 66

**Scale:** 1 inch = 1/4 Mile
### MATERIAL SITE DATA FORM

**Site No.** LS+69  
**Date** November 1968  
**County** Greenwood  
**Owner** Boyd H. Stewart  
**Location** SE$$1_4$$ NE$$1_4$$ Sec. 27  
**Range** 10  
**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 at Bottom of Hole</th>
<th>Depth of Overburden</th>
<th>Depth of Material</th>
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#### CORRELATION DATA

**Geological Age**  
Pennsylvania

**Geological Source**  
Bern Ls. Fm. - Wakarusa Mbr.

**Material Similar To**  
Material reported under SHC Lab. No. 59502

**Specific Gravity (Sat)**  
2.46

**Los Angeles Wear**  
27.9 (A)

**Absorption**  
3.11  
**Soundness**  
0.97

**Wt. Cu. Ft.**  
Str. Ratio  
**Remarks**  
Tested 1948

**Photo No.** 16-83
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**Excursion DATA**

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**Geological Age**

Pennsylvania

**Correlation Data**

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**Specific Gravity (Sp. Gr.)**

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**Los Angeles Abrasion**

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**Absorption**

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**Sh. Ratio**

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**Remarks**
GLOSSARY


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

Aggrade: To raise the grade or level of a river valley or stream bed by depositing particles of clay, silt, sand, and gravel.

Aggregate: Any of several hard, inert, construction materials (such as sand, gravel, shells, slag, crushed stone, or other mineral material), or combinations thereof, used by mixing of various-sized fragments with a cementing or bituminous material to form concrete by bituminous mix.

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 includes 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.

Brecciated: Broken pieces of rock in a fine-grained matrix.

Channel Fill: A trough that has been cut in a unit (such as shale) shortly after deposition and later the depression is filled with another materials. (Such as limestone, sandstone, or conglomerate).

Chert: A dull, flint-like siliceous rock.

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

Conglomerate: Rock made up of various sizes and kinds of material.

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

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

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

Detrital: A product of disintegration or wearing away of rock.

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.
Fine sand: An aggregate of consolidated minerals or rock particles, the dimensions of which are 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 qualification, a siliceous composition is implied.

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.

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 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 unconsolidated deposit.

Gradation factor: The value obtained by adding the percentages of material retained on the 1 1/2"", 3/4"", 3/8"", 4, 8, 16, 30, 50 and 100 sieves, respectively and dividing the sum by 100.


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

Hiatus: A break or interruption in the continuity of the geologic record.

Igneous rocks: Rocks produced from molten or partly molten material.

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


Lithology: Physical properties of rock 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.

Matrix: The binding material which bonds or encloses sand and gravel particles at their place of deposition.

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

Metamorphic rock: Rock which has been crystallized or otherwise altered by intense heat or pressure.

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.

Prospective materials site: A location where the geologic conditions are favorable for finding and producing construction aggregate.

Reef: Calcareous debris built up by shell-forming calcareous secreting animals that live in a shallow, warm water marine environment.

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.

Stereogram: A stereoscopic pair of photographs correctly oriented and mounted for viewing with a stereoscope.

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.

Terrace: A plain built up by the deposition of sediments by water.

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


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*This Report
**In Progress