APPENDIX IV

The following Site Data Forms are designated as Open Sites, Sampled. The sites described herein are depicted on the county materials map as a "O".
STATE HIGHWAY COMMISSION OF KANSAS
MATERIAL SURVEY REPORT

SITE NO. IS-1 Mul
DATE: May 1963

MATERIAL: Limestone
COUNTY: Coffey

LOCATION: SB 1/4 SEC. 6 TWP 39 N RANGE 17 W

OWNER: J. W. George or Kenneth W. Moore

C/O Mission State Bank, Mission, Kansas

TENANCY: Dry

ACCESSIBILITY: Good

NATURE OF DEPOSIT: Periodic portable crushing operations

EXPLOITATION DATA

Material Depth of Depth of Percent Residue
Estimated Quantity: 150,000+ Tons
Plattsmouth Limestone

GEOLOGICAL AGE: Pennsylvanian
GEOLOGICAL SOURCE: Carmel Limestone

MATERIAL SIMILAR TO SBC Lab. Nos. 10253 and 20260
SBC Form 216 §16-24

REMARKS:
- SBC Lab. Nos.: 10253 20260
- Sp. Gr. (Saturated): 2.56 2.63
- Sp. Gr. (Dry): 2.58 2.59
- Los Angeles Abrasion: 35.9% 27.9%
- Absorption: 3.19% 1.56%
- Soundness: 0.92 0.96

NOTE: Ledge contains many thin shale seams.
### Material Survey Report

**SITE NO.** 1242  
**DATE** May 1963

**MATERIAL** Limestone  
**COUNTY** Coffey

**LOCATION** NE 1/4 SE 1/4  
**SECT** 32  
**TWP** 20S  
**RANGE** 16E

**OWNER** Cecil B. Ruffman  
**Address** Burlington, Kansas

**TENANT**  
**Address**

**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 Limestone</th>
<th>Depth of Water&lt;table</th>
<th>Percent Retained</th>
<th>Void Soil</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Estimated Quantity - Unlimited**

**Geological Age** Pennsylvania  
**Geological Source** Prattsmouth Limestone member  
**Gneiss Limestone Pa**

**Material Similar To**  
SHC Lab. No. 75310 and 94874

**SRC Form 216 #6-20**

**Remarks:**  
SHC Lab. Nos. 75310 94874

Sp. Gr. (Saturated) 2.66 2.59

Sp. Gr. (Dry) 2.52

Los Angeles Abrasion 25.5% (A) 30.4% (B)

Absorption 1.1% 2.57%

Soundness .96 .95
STATE HIGHWAY COMMISSION OF KANSAS
MATERIAL SURVEY REPORT

SITE NO. 18th Pot  DATE May 1963
MATERIAL Limestone  COUNTY Coffey
LOCATION § 1/2 SW 1/4  Sec. 21  Twp. 21S  Range 16E
OWNER P. J. & Frances D. Kelley  % E. T. Beesman.
678 East Haskell Road, Henderson, Nevada
TENANT  nea
NATURE OF DEPOSIT  Dry  ACCESSIBILITY  Good
STATUS OF SITE  Open and producing

<table>
<thead>
<tr>
<th>Depth of Bed</th>
<th>Depth of Limestone</th>
<th>Depth of Bed</th>
<th>Depth of Limestone</th>
<th>Depth of Bed</th>
<th>Depth of Limestone</th>
<th>Depth of Bed</th>
<th>Depth of Limestone</th>
<th>Depth of Bed</th>
<th>Depth of Limestone</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>20</td>
<td>45</td>
<td>50</td>
<td>60</td>
<td>70</td>
<td>80</td>
<td>90</td>
<td>100</td>
<td>110</td>
</tr>
</tbody>
</table>

Estimated Quantity - 100,000 Tons

CORRELATION DATA

GEOLOGICAL AGE  Pennsylvaniaian  GEOLOGICAL SOURCE  Toronto limestone member
MATERIAL SIMILAR TO  SRC Lab. Nos. 9255  95665  and  21661
SRC Form GIC 16-2c

REMARKS  SRC Lab. Nos. 9255  95665  21661
Sp. Gr. (Saturated)  2.51  2.45  2.40
Sp. Gr. (Dry)  2.41  2.33  2.36
Los Angeles Abrasion  31.4% (A)  34.6% (B)  38.1% (B)
Absorption  4.26%  5.26%  4.90%
Soundness  0.96  0.91  0.95

NOTE: 2 lodges (5 to 6 foot each) separated by a six inch shale seam.
STATE HIGHWAY COMMISSION OF KANSAS
MATERIAL SURVEY REPORT

SITE NO. L9-7  DATE: May 1963
MATERIAL: Limestone
LOCATION: SW 1/4  SEC 2  TWP 21S  RANGE 15R
OWNER: Helen H. Wentz  Rt. 4, Burlington, Kansas
NATURE OF DEPOSIT: Dry
ACCESSIBILITY: Good
STATUS OF SITE: Portable Crushing operations

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test</th>
<th>Material</th>
<th>Depth of Hole</th>
<th>Percentage</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>1A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Estimated quantity: 100,000+ Tons

CONSULTATION DATA

Clay Creek Limestone member

GEOLICAL AGE: Pennsylvania

MATERIAL SIMILAR TO: SEC Lab. Nos. 9900 and 21262
SEC Form 16 #16-23

REMARKS:

Sp. Gr. (Saturated) 2.64  2.64
Sp. Gr. (Dry) 2.60  2.60
Los Angeles Abrasion 23.4%  22.3%  
Absorption 1.57%  1.56%
Soundness 0.98  0.97
**State Highway Commission of Kansas**

**Material Survey Report**

**Site No.** 50+8

**Date** May 1963

**Material** Sand-Gravel (Fine-Sand)

**County** Coffey

**Location** SE 1/4

**Twp.** 20 S

**Range** 14 E

**Owner** Ray Griffin

**Address** 104 Railroad St., Burlington, Kansas

**Tenant**

**Nature of Deposit** Wet (1)

**Accessibility** Good

**Status of Site** Open and Producing: Sampled

---

**Exploration Data**

<table>
<thead>
<tr>
<th>Test No.</th>
<th>Material</th>
<th>Depth of Cutting</th>
<th>Depth of Hole</th>
<th>Percent Flakable</th>
<th>L.L.</th>
<th>F.I.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td>0  10  20  30</td>
<td>50  60  70  80</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Correlation Data**

**Geological Age** Recent

**Geological Source** Alluvium

**Material Similar to** SH&E Lab. No. 25211 (Test results compiled on fine sand)

**Remarks**

**Absorption** 1.0%

**Strength Ratio** (1 day) 0.77, (3 day) 0.82

This material is a sand resulting from the natural disintegration of siliceous rocks.
Figure 18. Coffey County Materials Map Index.
COFFEY COUNTY MATERIALS MAP

LEGEND

- Open Site; not sampled (See Appendix I)
- Prospective Site; not sampled (See Appendix II)
- Prospective Site; limited boring and sampling (See Appendix III)
- Open Site; sampled (See Appendix IV)

Material Type (Limestone)
Estimated Quantity
+ indicates more than 20,000 cubic yards
- indicates less than 20,000 cubic yards

Site Data Sheet Number
Geologic Age or Formation

PERT
Exposed
Buried
Curson-Hartford Limestone Members, Topeka Limestone Formation

POE
Exposed
Buried
Ervina Creek Limestone Member, Deer Creek Limestone Formation

POO
Exposed
Buried
Crawfie Limestone Member, Deer Creek Limestone Formation

PLL
Exposed
Buried
Avoca and Beil Limestone Members, Lecompton Limestone Formation

PNC
Exposed
Buried
Clay Creek Limestone Member, Kawaska Shale Formation

PCK
Exposed
Buried
Kereford Limestone Member, Cread Limestone Formation

POP
Exposed
Buried
Plattsouth Limestone Member, Cread Limestone Formation

POT
Exposed
Buried
Toronto Limestone Member, Cread Limestone Formation

SCALE: 1 0 1 2 3 4 MI.

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U.S. DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
COFFEY COUNTY MATERIALS MAP

LEGEND
- Open Site; not sampled (See Appendix I)
- Prospective Site; not sampled (See Appendix II)
- Prospective Site; limited boring and sampling (See Appendix III)
- Open Site; sampled (See Appendix IV)

Material Type (Limestone)
Estimated Quantity
- indicates more than 20,000 cubic yards
- indicates less than 20,000 cubic yards
Site Data Sheet Number
Geologic Age or Formation

PT
- Exposed
- Buried
Curson-Hartford Limestone Members, Topeka Limestone Formation

Pde
- Exposed
- Buried
Erivne Creek Limestone Member, Deer Creek Limestone Formation

Pdc
- Exposed
- Buried
Ozawie Limestone Member, Deer Creek Limestone Formation

Pll
- Exposed
- Buried
Avoca and Bell Limestone Members, Lecompton Limestone Formation

Pmc
- Exposed
- Buried
Clay Creek Limestone Member, Kaswaka Shale Formation

Pox
- Exposed
- Buried
Kersford Limestone Member, Oread Limestone Formation

Pwp
- Exposed
- Buried
Plattsoum Limestone Member, Oread Limestone Formation

Pot
- Exposed
- Buried
Toronto Limestone Member, Oread Limestone Formation

SCALE: 1 0 1 2 3 4 M.

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Legend:

- Open Site; not sampled (See Appendix I)
- Prospective Site; not sampled (See Appendix II)
- Prospective Site; limited boring and sampling (See Appendix III)
- Open Site; sampled (See Appendix IV)

Material Type (Limestone)
Estimated Quantity
+ indicates more than 20,000 cubic yards
- indicates less than 20,000 cubic yards

Site Data Sheet Number
Geologic Age or Formation

PT Exposed Curson-Hartford Limestone Members, Topeka Limestone Formation
PT Buried

POE Exposed Irvine Creek Limestone Member, Deer Creek Limestone Formation
POE Buried

POO Exposed Osawkee Limestone Member, Deer Creek Limestone Formation
POO Buried

PLO Exposed Avoca and Beil Limestone Members, Laconitum Limestone Formation
PLO Buried

PYC Exposed Clay Creek Limestone Member, Kazwaka Shale Formation
PYC Buried

PFO Exposed Keresford Limestone Member, Oread Limestone Formation
PFO Buried

POP Exposed Plattsmouth Limestone Member, Oread Limestone Formation
POP Buried

POT Exposed Toronto Limestone Member, Oread Limestone Formation
POT Buried

Scale: 1 0 1 2 3 4 Mi.

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COFFEY COUNTY MATERIALS MAP

LEGEND

- Open Site; not sampled (See Appendix I)
- Prospective Site; not sampled (See Appendix II)
- Prospective Site; limited boring and sampling (See Appendix III)
- Open Site; sampled (See Appendix IV)

Material Type
- CG - Chert Gravel
- SG - Sand & Gravel
- QT - Quaternary Terraces
- QAL - Quaternary Alluvium

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

Site Data Sheet Number
Geologic Age or Formation

Reservoir or Lake
Dry Lake, Subject to Flooding

SCALE:

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LEGEND

- Open Site; not sampled (See Appendix I)
- Prospective Site; not sampled (See Appendix II)
- Prospective Site; limited boring and sampling (See Appendix III)
- Open Site; sampled (See Appendix IV)

Material Type (Limestone)
Estimated Quantity
+ indicates more than 20,000 cubic yards
- indicates less than 20,000 cubic yards
Site Data Sheet Number
Geologic Age or Formation

Pr

Exposed Carson-Hartford Limestone Members, Topeka Limestone Formation
Buried

Pow

Exposed Ervine Creek Limestone Member, Deer Creek Limestone Formation
Buried

Pod

Exposed Ozawkie Limestone Member, Deer Creek Limestone Formation
Buried

PLL

Exposed Avoca and Beloit Limestone Members, Leominster Limestone Formation
Buried

Pmc

Exposed Clay Creek Limestone Member, Kanwaka Shale Formation
Buried

Pok

Exposed Keresford Limestone Member, Oread Limestone Formation
Buried

Pop

Exposed Plattsburgh Limestone Member, Oread Limestone Formation
Buried

Poe

Exposed Toronto Limestone Member, Oread Limestone Formation
Buried

SCALE: 1 0 1 2 3 4 Mi.

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COFFEY COUNTY MATERIALS MAP

LEGEND

- Open Site; not sampled (See Appendix I)
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- Prospective Site; limited boring and sampling (See Appendix III)
- Open Site; sampled (See Appendix IV)

Material Type
- CG - Chart Gravel
- QG - Quaternary Terraces
- QAL - Quaternary Alluvium

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

Geologic Age or Formation
- Reservoir or Lake
- Dry Lake, Subject to Flooding

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