APPENDIX III

The following Site Data Forms are designated as Open Sites; Sampled. The sites described herein are depicted on the county materials maps as a "O".

LEGEND

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

□ Farm site
- Open materials site
- - Perspective materials site
○ Center of section
- Cemetery
- - - School
++ Church

Town or city

152
**Material Survey Report**

**Site No.** SG+103  
**Quadrant** Qm  
**Date** April, 1963  
**Material** Sand and Gravel  
**County** Ellis  
**Location** NW1/4, NW1/4 Sec. 34, T55S R16W  
**Owner** Sarah Gorham Foster  
**Address** Gorham, Kansas  
**Nature of Deposits** Dry  
**Accessibility** Easy  
**Status of Site** Open site; sampled

### Exploration Data

<table>
<thead>
<tr>
<th>Test Hole</th>
<th>Material</th>
<th>Depth of Material</th>
<th>Percent of Material</th>
<th>%</th>
<th>0.5</th>
<th>1</th>
<th>2</th>
<th>5</th>
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<th>Moist.</th>
<th>G.R.</th>
<th>F.I.</th>
<th>I.R.</th>
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<td>4 12</td>
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</tr>
</tbody>
</table>

**Av.**

### Correlation Data

- **Geological Age:** Pleistocene
- **Geological Source:** Meade Formation
- **Material:** Shale
- **Material reported on SHC Form 619, No. 26-5 and in USGS Ellis County Report Site No. Ma9.

- **Specific Gravity (S.G.):** 2.61  
- **Los Angeles Wear:** (Grading D) 42.2
- **Atten. (Loss):** 0.93  
- **Wt. 6 ft.:** 110 lbs.  
- **Dr. Salts:** Estimated quantity - 40,000 cubic yards.

**Scale:** 1" = 1/4 Mile
STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

Site No. SG+104  
Qm Date: April 1963

Material: Sand and Gravel  
County: Ellis
Location: SE1/4 SE1/4  
Sec. 28  
Twp. 15S  
Range 16W
Owner: Martin A. Basgall  
500 W. 15th Ave.  
Kansas City, Kansas
Nature of Deposit: Dry  
Accessibility: Good
Status of Site: Open site; sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>No.</th>
<th>Material of Section of Site</th>
<th>Depth of Material</th>
<th>Percent Retained</th>
<th>U/I</th>
<th>A/I</th>
<th>W/B</th>
<th>V/B</th>
<th>8</th>
<th>10</th>
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Date Tested: 6-53

Geological Age: Pleistocene
Geological Source: Meade Formation
Material Similar To: Material reported on SHC Lab. Sheet No. 79221
Specific Gravity (dry): 2.61
Los Angeles Wear: Grading "D" 14.0

This material is a sand and gravel resulting from the natural disintegration of siliceous and calcareous rocks.
State Highway Commission of Kansas

Material Survey Report

Site No.: SG+105
Date: April 1963

Material: Sand and Gravel
County: Ellis

Location:
- NW 1/4 NW 1/4 Sec. 27
- Tp. 15S
- Rng. 16W
- Sarah Gorham Foster Estate
- Gorham, Kansas
- Dry
- Accessibility: Good
- Open Site; Sampled

Exploration Data

<table>
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<th>Data</th>
<th>Material below T.B.</th>
<th>Depth</th>
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<td>5</td>
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<td></td>
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<td></td>
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Correlation Data

- Date Tested: 1-46

Geological Age: Pleistocene
Geological Source: Meade Formation

Material reported on SHC Form 216, No. 26-5 and in USGS Ellis Co. Report Site No. Fa-8

Relative Density (Dr.): 2.82
(1) L.A. test
Density: 2.62
Grading: "D" 39.7

Soil Absorption:

- 113 lbs.
- Densities: 0.96
- Drainable: 0.00

Remarks:

Scale: 1" = 1/4 Mile
FS-106
Qm

Site No.: 106  Date: April 1963
Material: Fine Sand  Source: Ellis
Location: SW¼ NW¼  Sec. 31  Twp. 15S  Rng. 16W
Owner: Frank Dome  Pfeifer, Kansas
Nature of Surplus: Accessibibility: Good
Status of Site: Open site; sampled

Exploration Data

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<th>Depth (ft.)</th>
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<th>20</th>
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<tr>
<td>USGS</td>
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</table>

Consolidation Data: Date Tested: 2-47

Geological Age: Pleistocene
Geological Source: Meade Formation
Material Source: Material reported in USGS Ellis Co.
Report Site No.: Pa9

Specific Gravity (Dry): (dry)
Los Angeles Abrasion: Soundness:
wt. cu.ft.: Str. Ratio:
Remarks: Estimated quantity 2,000 cu. yds.
Material Survey Report

SG+107 Qm
Date: April 1963

Sand and Gravel
County: Ellis

Elevation: 152

Adam Kieser
Pfeifer, Kansas

Return of Deposit: Dry

Union of Rate: Open site; sampled

Geological Age: Pleistocene

Material similar to Material reported on SNC form 216, No. 26-33

Specific Gravity (Sat.) 2.62

Los Angeles wear grading "D" 34.3

Absorption: 0.99

Wt. Coeff. 113.8 lbs.

Remarks: Estimated quantity 40,000 cu. yds.

Scale: 1" = 1/2 Mile
MATERIAL SURVEY REPORT

Site No.  SGM-108  Date  April 1963

Material  Sand and Gravel  County  Ellis
Location  NE 4  SE 4  Town  15S  Range  17W

Survey  John R. Roth  Pfeifer, Kansas

Status of Site  Open site; sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test Date</th>
<th>Material Below 1'</th>
<th>Material Below 12'</th>
<th>Material Below 24'</th>
<th>Percent Retained</th>
<th>Sft</th>
<th>Lft</th>
<th>P.F.</th>
</tr>
</thead>
<tbody>
<tr>
<td>USGS</td>
<td>1-3 6 12 2C</td>
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</tr>
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</table>

CONCESSION DATA  Date Tested: 2-47

Geological Age  Pleistocene

Geological Source  Meade Formation

Material Similar  Material reported in USGS Ellis Co.

Report Site No.  Ma-10

Specific Gravity (Test)  (Dry)

Los Angeles Wear

Absorption

M. S. & Fl.  Str. Ratio

Remarks  Estimated quantity 1000 cu. yds.
State Highway Commission of Kansas

Material Report

Site No.: SG-109
Date: April 1963

Material: Sand and Gravel
County: Ellis

Location: 3,500 feet NE
Scale: 1/4" = 1 mile

Coarse: Caroline Zimmer
LaCrosse, Kansas

Nature of Deposit: Dry
Accessibility: Good

Status of Site: Open site, sampled

<table>
<thead>
<tr>
<th>Depth of Material</th>
<th>USGS</th>
<th>Depth of Material</th>
<th>USGS</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>3</td>
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<td>5</td>
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<td></td>
<td>12</td>
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<td></td>
<td>100</td>
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<td>100</td>
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Geological Age: Pleistocene

Geological Source: Meade Formation

Material: Similar to material reported in USGS Ellis Co.

Report Site No.: MA-11

Soil Test (lb.) (kg)

Los Angeles Abrasion:

Adhesion:

Wt. Gt./ft.:

Skr. Rate:

Remarks: Estimated quantity 1,000 cu. yds.
**STATE HIGHWAY COMMISSION OF KANSAS**

**MATERIAL SURVEY REPORT**

- **Site No.** MP-110
- **Qm**
- **Date** April 1963
- **Material** Mineral Filler
- **County** Ellis
- **Locality** NE4
- **Sec.** 33
- **Twp.** 15S
- **Rang.** B-W
- **Owner** Adolph Werth
- **Address** Schoenchen, Kansas
- **Nature of Deposit** Dry
- **Accessibility** Good
- **Status of Site** Open site sampled

### EXPLOREATION DATA

<table>
<thead>
<tr>
<th>Test No.</th>
<th>Material below in feet</th>
<th>Hour of Material</th>
<th>Index Value</th>
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<th>VPS</th>
<th>E</th>
<th>N</th>
<th>SC</th>
<th>SCG</th>
<th>HSD</th>
<th>B.P.</th>
<th>L.L.</th>
<th>P.L.</th>
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<tbody>
<tr>
<td>A0 SHC</td>
<td>0.5</td>
<td></td>
<td>0.7 18 79</td>
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<td></td>
<td></td>
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</table>

### CORRELATION DATA

- **Geological Age** Pleistocene
- **Geological Source** Meade Formation
- **Material Similar** Material reported on SHC Form 216, No. 26-28A

**Property Data**

- **Specific Gravity (S.G.)** (Dry)
- **Los Angeles Abrasion**
- **Absorption**
- **Moisture (%)**

**Remarks** Estimated quantity 5,000 cu. yds.
SG-111
On

April 1963

Sand and Gravel

County: Ellis

NEK

Sec. 33

T. 158

R. 18W

Adolph Wolth<br> Schoenchen, Kansas

Dry

Open site; sampled

EXPLANATION DATA

Av. SHC 4 6+ 3 7 14 3360 8398 91 1 4.12

CORRELATION DATA

Geological Age: Pleistocene

Geological Source: Mieade Formation

Material reported on SHC Form 216, No. 26-38

Specific Gravity (Sat.) 2.60

Los Angeles wear: Grading "D" 32.0

Assurance: Soundness 0.95

Mt. 118.3 lbs.

Estimated quantity: 1.64

9,000 cu. yds.
MATERIAL SURVEY REPORT

SG-112

Quarry

April 1963

Site No.

Ellis

County

Sand and Gravel

Location

SE 1/4

Sec. 29

T. 15S

R. 16W

Magdalena Werth

Rte. 1, Hays, Kansas

Dry

Nature of Deposit: Fluvial

Accessibility: Good

Type of Site: Open site, sampled

Description Data

| Test Name | Material | Size | Color | Data | 1/2 | 3/4 | 1 | 2 | 3 | 5 | 8 | 10 | 15 | 20 | 30 | 50 | G.R. | L.L. | P.L. |
|-----------|---------|------|-------|------|-----|-----|---|---|---|---|---|---|---|---|---|-----|-----|-----|
| USGS      | 3 7     | 1016 | 56    | 97 1 |     |     |   |   |   |   |   |   |   |   |   |     |     |     |
| SHC       | 3 7     | 5   |   | 816 | 359 | 8096 | 97 | 2 3.94 |     |     |   |   |   |   |   |     |     |     |

AV.

Date Tested: 1-46

Geological Age: Pleistocene

Geological Series: Meade Formation

Material similar to material reported on SHC Form 216, No. 26-7 and in USGS Ellis Co. Report Site No. Mal3

Specific Gravity (drill.) 2.62

Los Angeles Wear: Grading "D" 36.3

Abrasion: Soundness 0.97

Wt. Co. ft.: 115 Lbs.

Net Weight: 8,000 cu. yds.

Scale: 1" = 1/4 Mile

Smoky Hill River
STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

Site No. 113
Date April 1963

Material: Mineral Filler
County: Ellis

Location: SHE
Sec. 29
T. 15S
R. 18W

Owner: Magdalena Werth
Rte. 1, Hays, Kansas

Nature of Deposit: Dry
Accessibility: Good

Status of Site: Open site, sampled

EXCAVATION DATA

<table>
<thead>
<tr>
<th>Depth Material</th>
<th>Material in Bottom of Hole</th>
<th>Depth Average Material</th>
<th>Avg.</th>
<th>SHC</th>
<th>3 5</th>
<th>22</th>
<th>7 17</th>
<th>29 38 56</th>
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</tbody>
</table>

SAMPLING DATA

Geological Age: Pleistocene

Material: Meade Formation

Material Similar To: Material reported on SHC Form 216, No. 26.9 and No. 26.7

Specific Gravity (Dry): 26.9

Los Angeles Mfr.: 88 lbs.

Absorption: 88 lbs.

We, Cu. Ft.: 88 lbs.

Remarks: Estimated quantity 3,500 cu. yds.
<table>
<thead>
<tr>
<th>Material of Action</th>
<th>Weight Material</th>
<th>Percent Material</th>
<th>E.P.</th>
<th>L.L.</th>
<th>P.I.</th>
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<td>1 2 5 17 47395</td>
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<td>3.34</td>
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**Geological Data**

- **Type**: Pliocene
- **Geological Source**: Meade Formation
- **Material reported on SHC Form 216, No. 26-32 and USGS Ellis Co. Report Site No. MA14

**Specific Gravity**

- **(Static)**: 2.60
- **(Dry)**

**Los Angeles Abrasion**

- **Grading "p"**: 34.5
- **Excess**: 0.94
- **1-day**: 1.36
- **3-days**: 1.27

- **Estimated quantity**: 35,000 cu. yds.

**Scale**: 1" = 4 Mile
SG-115

Dry

Open site; sampled

Material:
Sand and Gravel

Date: April 1963

County: Ellis

Location:

SE 1/4 NW 1/4

Sec. 36 T. 8S R. 15W

Base of Deposit:
Dry

Nature of Deposit:
Good

Geological Age:
Pleistocene

Geological Source:
Meade Formation

Material Similar to:
Material reported in USGS Ellis Co.
Report Site No. Mal8

Specific Gravity (Sol.):
(Dry)

Absorption:

Boundaries:

Estimate Quantity 3,000 cu. yds.

Scale:
1" = ¼ Mile

Material Summary Report

Exploration Data

USGS

<table>
<thead>
<tr>
<th>Depth of Material</th>
<th>Percent Material</th>
<th>G.F.</th>
<th>I.I.</th>
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<tbody>
<tr>
<td>14</td>
<td>43</td>
<td>98</td>
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</table>

Date Tested: 2-47

Scale: 1" = ¼ Mile
### Site Information

- **Site No.:** SG+116
- **Material:** Sand and Gravel
- **County:** Ellis
- **Location:** SW ¼ SW ¼
- **Distance:** 26 feet from 15S, range 19E
- **Owner:** Paul Warth
- **Asphalt:** McCracken, Kansas
- **Type of Deposit:** Dry
- **Accessibility:** Good
- **Status of Site:** Open site: sampled
- **Date Tested:** 4-61

### Gradation Data

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<th>R.P.</th>
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<th>PI</th>
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</table>

### Geological Data

- **Geological Age:** Pleistocene
- **Geological Source:** Meade Formation
- **Material:** Sand and Gravel
- **Material reported on SHC Form 216, No.:** 26-38

### Physical Properties

- **Specific Gravity:** 2.60
- **Los Angeles Wear:** Grade "D" 38.5
- **Absorption:** 0.24
- **Weight per cu. ft.:** 114.38 lbs.
- **Slump:** 1-day 1.57, 3-days 1.53

### Remarks

- Estimated quantity: 40,000 cu. yds.
**MATERIAL SURVEY REPORT**

**Site No.** SG-117  
**Quarry** Qm  
**Material** Sand and Gravel  
**County** Ellis

**Location** Sec 24  
**Township** 15S  
**Range** 19W  
**Owner** Albert Dinges  
**Place** Schoenchen, Kansas

**Rating of Exposed:** Dry  
**Accessibility:** Good  
**Status of Site:** open site, sampled

---

**EXPLORATION DATA**

<table>
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<tr>
<th>Description</th>
<th>Value</th>
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<tbody>
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<td>Tests Made</td>
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<tr>
<td>Material Borehole</td>
<td>61</td>
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<td>Hammering</td>
<td>99</td>
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<tr>
<td>USCS</td>
<td>Pleistocene</td>
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</table>

**Correlation Data**

- **Geological Age:** Pleistocene  
- **Geological Source:** Meade Formation  
- **Material Similar To:** Material reported in USGS Ellis Co. Report  
- **Site No., Mal:** 7

**Specific Gravity (Sat.)** [Insert Value]  
**Los Angeles Tear** [Insert Value]  
**Absorption** [Insert Value]  
**Wt. CoMt.** [Insert Value]  
**Estimate:** Estimated quantity 2,000 cu. yds.

---

**Scale:** 1" = 1/4 Mile
STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

SG-119
Qm
Site No. Date April 1963
Material Sand and Gravel County Ellis
Location Sec. 16 Tp. 15S Rgs. 19W
Owner Harold G. Krous Rte. 2, Hays, Kansas
Nature of dummy Dry
Accessibility Good
Status of site Oper site; sampled

EXPLORATION DATA

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<th>Bedrock</th>
<th>Depth</th>
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<th>100</th>
<th>SHC</th>
<th>G.F.</th>
<th>I.C.</th>
<th>P.I.</th>
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<tbody>
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<td>Bottom of Shale</td>
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CORRELATION DATA

Date Tested: 1952

Geological age Pleistocene
Geological Series Meade Formation
Material similar to Material reported on SHC Form 619, No. 26-36

Specific Gravity (Sat.) 2.62 (Dry)
Los Angeles Abrasion Grading "p" 29.8
Absorption 0.98
Wt. Gain 112.7 lbs., 1-day 1.56, 3 days 1.64
Remarks Estimated quantity 10,000 cu. yds.

Scale: 1" = 1/2 Mile
FS-120
Site No. 1204 April 1963

Material: Fine Sand
County: Ellis
Location: NW¼ NW¼
Sec.: 4
Twp.: 15S
Range: 19W

Owner: Mary E. Moore
Rte.: 2, Hays, Kansas
Access: Dry
Accessibility: Good
Locality: Open site; sampled

Extraction Data

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<tr>
<th>Test No.</th>
<th>Material in bottom of hole</th>
<th>Depth of extraction</th>
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<th>Percent Clay</th>
<th>Percent Fine Sand</th>
<th>Percent Coarse Sand</th>
<th>Percent Gravel</th>
<th>Percent Rock</th>
<th>B.T.</th>
<th>L.L.</th>
<th>M.F.</th>
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<tbody>
<tr>
<td>USGS 1</td>
<td>2</td>
<td>6</td>
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Correlation Data: Date Tested: 2-47

Geological Age: Pleistocene

Geological Source: Sanborn Formation

Material tested: Material reported in USGS Ellis Co.

Report Site No. Fal2

Specific Gravity (Dry):

Los Angeles Wear:

Description:

Wt., Cu., Ft., Lbs.

Remarks: Estimated quantity 2,000 cu. yds.
STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

SG-121
Qm

Site No. Date

Sand and Gravel County

Elliis

SW 1/4 NE 1/4

15S 20W

Arthur Hughes

Elliis, Kansas

Nature of Deposit: Open site, sampled

Exploration Data

<table>
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<tr>
<th>Test</th>
<th>Permeability</th>
<th>El.</th>
<th>1.12</th>
<th>a</th>
<th>b</th>
<th>c</th>
<th>d</th>
<th>w</th>
<th>s</th>
<th>Gr</th>
<th>Lc</th>
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</table>

Corelation Data

Material similar to: Meade Formation

Material reported on SHC Form 216, No. 26-30
and USGS Ellis Co. Report Site No. M219

Geological age: Pleistocene

Geological source: Meade formation

Specific gravity: 2.61

Los Angeles wear: 33.6

Adhesiveness: 0.93

Wt. 113.2 lbs.

Estimated quantity: 8,000 cu. yds.

Scale: 1" = ¼ Mile
MATERIAL SURVEY REPORT

PB+122

Mile No. Data
0.0m April 1963

Material Fine Sand
County Ellis

Location NE 4
Sec. 5 Twp. 15S Range 20W

Owner Arthur Hughes
Location Ellis, Kansas

Nature of Deposit Dry

Accessibility Good

Status of Site Open site: sampled

ESPELEATION DATA

<table>
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<tr>
<th>Layer No.</th>
<th>Material of Bottom of Hole</th>
<th>Depth of Material</th>
<th>Sampled of Hole</th>
<th>Percent Retained</th>
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<tr>
<td>24</td>
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Note: Composite Sample of Holes No. 24 & 28 as shown on SHC Form 216 No. 26-31

CORRELATION DATA

Geological Age Pleistocene
Geological Source Meade Formation
Material Similar To Material reported on SHC Form 216, No. 26-31
Specific Gravity (Est.) 2.62 (Dry)
Los Angeles Wear

Assessment
Wt. Co. ft.: 112.1 lbs.
Est. Bulk: 1-day 1.55, 3-days 1.26
Estimated quantity 40,000 cu. yds.

Scale: 1" = 1/4 Mile
Material Survey Report

Vas123 - Os
Site No. 40
Date: April 1963

Volcanic Ash - Ellis
Material: SE 32 SE 32
Location: 17 T 14S R 19S
Owner: Mrs. J. M. Kramer 404 W. 16th, Hays, Kansas
Nature of Deposit: Dry

Status of Site: Open site; sampled

Exploration Data

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<td>0 2 14</td>
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Correlation Data

Geological Age: Pleistocene
Geological Source: Sanborn Formation
Material Similar To: Material reported on SHC Form 216, No. 28-29 and in USGS Ellis Co. Report Site No. Va-1
Specific Gravity (dry): 2.34

Los Angeles Bear: 59.4 lbs.
Mo. Co. ft.: 128


Scale: 1" = 4 Mile
MATERIAL SURVEY REPORT

State: Kansas
Site No.: LS+124
Date: April 1963

Material: Hays Limestone
County: Ellis
Location: Sec 21, T. 138 N, R. 15 W
Owner: L. Dinges
Rte. 1, Hays, Kansas

Surface Conditions: Dry, Accessibility: Good
Status of Site: Open site; sampled

PRELIMINARY DATA

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<td>Section</td>
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</table>

CORRELATION DATA

Geological Age: Cretaceous
Geological Source: Hays Limestone
Material: Similar to material reported on SHC Form 216, No. 76-27 and in USGS Ellis Co. Report, Site No. 1a3
Specific Gravity (SG): 2.06, 2.06, 2.01
Los Angeles value: 76.5, 78.0, 56.7
Air-dried Moisture: 0.35, 0.57, 0.59
Absorption:
Wt. %:
Result: Estimated quantity unlimited
STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

GS+125
Kif

Site No. Date: April 1963

Ft. Hays Limestone
Ellis

Material

County

Location: Sec. 10 T 33S R. 20E

Power

Nature of Deposit: Dry
Accessibility: Good
Status of Site: Open site; sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Depth (ft)</th>
<th>Material (ft)</th>
<th>Density (lb/ft)</th>
<th>Permeability Index</th>
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<tbody>
<tr>
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<td>120</td>
<td>2.01</td>
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</table>

Date Tested: 1-54

Cone Penetration Data

Geological Age: Cretaceous

Geological Source: Ft. Hays Limestone

Material Source: Material reported on SHC Form 216, No. 26-26 and in USGS Ellis Co. Report Site No. LS4

Specific Gravity (dry): 2.01
Los Angeles Wear: 68.2
Absorption: 0.51

US-40 Highway

Notes: Estimated quantity 150,000 cu. yds.
STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

FS+126
Gal

Site No. 1126
Date April 1963

Material Fine Sand
County Ellis

Location N00° 37' 27" W00° 37' 27"
Topo. 13S 13S Range 20W

Owner Hilarus F. Dinkel
Address R.R., Ellis, Kansas

Nature of Deposit Dry

Accessibility Road

Status of Site Open site; sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test</th>
<th>Bed Resistance</th>
<th>Material Below</th>
<th>Depth of Material</th>
<th>Percent Reclaimed</th>
<th>L/l, p/l</th>
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<tr>
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<tr>
<td>Av.</td>
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</tr>
<tr>
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<td>3 8 13 22 4269 80 14 2.37</td>
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</table>

Date Tested: 1954

Geological Age Recent

Geological Source Alluvium

Material Similar to Material reported on SHC Form 216, No. 26-4

Specific Gravity (Sat.) (Dry)

Los Angeles Wear

Consistency Hardness

Fl. Gr.: Ft. Str. Rate

Remarks Estimated quantity 40,000 cu. yds.
LC-127

C8

Date: April 1963

Limestone Gravel	County: Ellis

SW 1/4

Section 1

Township 13S

Range 19W

See Remarks: W. E. Payne, Eh	Ellis, Kansas

DXY

Accessibility: Good

Nature of Deposit: Open site; sampled

Exploration Data

Av. SHC

L7.8

Exploration Data

Geological Age: Pleistocene

Geological Source: Sanborn Formation

Material Similar To: Material reported on SHC Lab. Sheet, No. 37004

Specific Gravity (Sat.)

Los Angeles Wear

M. G. P.

Tenant is: Anthony H. Witt, Wk

Remark: This material was previously rejected because of too high a wash
STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

LG+128
Fr

Pr

Site No. 26

Date April 1963

Limestone Gravel

Ellis

Material NBK SWK

County 26

Location Top. 128 Range 11W

O. A. Struble

Dry

Owner Hays, Kansas

Nature of Deposit Accessability Good

status of Site Open site; sampled

EXPLORATION DATA

| Total | Material at Bottom of Borehole | Depths of Material 1 LF | NF | % | P | 18 | 24 | 30 | 45 | 60 | 100 | B.F. | L.E. | P.L. |
|-------|-------------------------------|-------------------------|----|---|---|----|----|----|----|----|----|-----|-----|-----|-----|
|       |                               |                         |    |   |   |    |    |    |    |    |    |     |     |     |     |

CONSOLIATION DATA

Date Tested: 6-41

Geological Age Pleistocene-Recent

Geological Source Undifferentiated

Material Similar To Material reported on SHC Lab. Sheet No. 47613

Specific Gravity (Sat.) (Dry)

Los Angeles Wear

Assortment


Estimated quantity 25,000 cu. yds. Description of Material: A mixture of calcareous gravel, siliceous sand, gravel and silt.

Scale: 1" = 1/4 Mile
STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

LS-129
Knf
Site No. Date: April 1963

Material: Limestone

Location: NE4

Entry: 28 12S 16W

Owner: Joe A. Miller

Address: Catherine, Kansas

Nature of Deposit: Dry

Accessibility: Good

Status of Site: Open site; sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test Hole</th>
<th>Material Below Grade</th>
<th>Depth of Material</th>
<th>Density (lb/ft^3)</th>
<th>G.f.</th>
<th>L.L.</th>
<th>P.I.</th>
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</thead>
<tbody>
<tr>
<td>5</td>
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<td></td>
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</table>

Date Tested: USGS 1-46

SCC 1954

Geological Age: Cretaceous

Material: Ft. Hays Limestone

Material Similar To: Material reported on SHC Form 216, No. 26-20 and in USGS Ellis Co. Report LS2

Specific Gravity (SG): 2.16

Los Angeles wear: 0.8

Abrasivity: Soundness

Note: G. f., L. L., and P. I. are not specified.

Remarks:

Scale: 1" = 1/4 Mile
SC-130

Site No. 17  Date: April 1963
Material: Sand and Gravel  County: Ellis
Location: SE1/4 NW1/4  Sec. 17  Tp. 11S  Range 16W
Owner: Ruth L. Cheaney  Plainville, Kansas
Nature of Deposit: Dry  Accessibility: Good
Status of Site: Open site; sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test Hole</th>
<th>Material</th>
<th>Caliper</th>
<th>Depth of Material</th>
<th>Percent Natural</th>
<th>U.S.G.</th>
<th>M.F.</th>
<th>L.C.</th>
<th>P.L.</th>
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<tbody>
<tr>
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<td></td>
<td>12</td>
<td>28</td>
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CORELATION DATA

Geological age: Pleistocene
Geological Source: Sanborn Formation
Material Similar to: Material reported in USGS Ellis Co. Report Site HA-2

Specific Gravity (dry): 1.92
Loss, Ignition: 3.0
Association: Sandstone
Min. Silt, Gr.: Str.Няне
Remarks: Estimated quantity 500 cu. yds.

DateTested: 2-47

Scale: 1" = ½ Mile
STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

Site No. 0m

PS-131

Date April 1963

Qm

County Ellis

Material Fine Sand

Location NW 4 NE 4

Sec. 13

Township 11S

Range 17W

Pine Creek

411 E. 13th Hwy, Kansas City

State of Kansas

Open site; sampled

EXPLORATION DATA

<table>
<thead>
<tr>
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<th>Depth of Materials</th>
<th>% of Material</th>
<th>% of Material</th>
<th>% of Material</th>
<th>% of Material</th>
<th>% of Material</th>
<th>G.V.</th>
<th>L.L.</th>
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CORRELATION DATA

Date Tested: 2-47

Geological Age Pleistocene

Geological Source Meade Formation

Material Similar to Material reported in USGS Ellis Co.

Report Site No. PA-1

Specific Gravity (Sat.) 0.95

Los Angeles Number 100

Absorption 10%

Wt. Gt./cubic yard 1050

Remarks Estimated quantity 1,000 cu. yds.
SG-132
Qm

Site No.  Qm
Date  April 1963

Sand and Gravel  Ellis

Material:  Coarse

Locality  NE 15  11s  Range  17W
See Remarks:  Eric E. Smith, E H  Plainville, Kansas

Dry  Good
Nature of Deposit:  Accessibility:
Attributes:  Open site; sampled

Geological Age:  Pleistocene
Geological Source:  Meade Formation

Material reported on SHC Form 216, No. 26-34 and in USGS Ellis Co. Report Site NO. Fa2

Specific Gravity (Sludge):  2.60
Specific Gravity (Test):  (dry) 2.60

Los Angeles Wear  Grading "D" 33.7
Grading:  0.88

Observations:

1. 111.1 lbs.
2. 1-day 1.52, 3-day 1.45

Estimated quantity 10,000 cu. yds.

Tenant is:  Emma A. Richmond, W 4

Scale:  1" = 1/4 mile
STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

SG+113
Qm

April 1963

Material: Sand and Gravel
County: Ellis
Location: SE 1/4 SW 1/4 Sec. 10 T21S R11W

Remarks: Edwin K. Simpson, Wk Rte. 2, Plainville, Kansas

Dated Tested: 1954

Pleistocene, Meade Formation

Material reported on SHC Form 216, No.
26-15

Specific Gravity (sat.) 2.57 (dry)

Grading "D" 31.5

Los Angeles Wear

112.3 Standard 1-day 1.29, 3-day 1.29

Estimated quantity 20,000 cu. yds.

Tenant is: G. Dean Evans, Sr., Wk Address Unknown

1" = ½ Miles
**MATERIAL SURVEY REPORT**

**LG+134**  
**Qs**  
**Date:** April 1961  
**Location:**  
- **Material:** Limestone Gravel  
- **County:** Ellis  
- **Location:** NW 1/4  
- **Section:** 22  
- **Township:** 11S  
- **Range:** 16W  
- **Owner:** S. J. Peavy  
- **Road:** Rte. 2, Ft. Morgan, Colorado  
- **Accessibility:** Good  
- **Open site; sampled**

**EXPLORATION DATA**

<table>
<thead>
<tr>
<th>Test Site</th>
<th>Material at Depth</th>
<th>Depth of Material</th>
<th>Soil Type</th>
<th>Soils Content</th>
<th>L.L.</th>
<th>P.F.</th>
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<tbody>
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</table>

No Data Available

**Correlation Data**

- **Geological Age:** Pleistocene
- **Geological Source:** Sanborn Formation
- **Material Similar To:** Material reported on SHC Hays Lab. Sheet No. 3-52
- **Specific Gravity (Stat.):** (Dry)
- **Los Angeles Wear:** Severe
- **Absorption:**
- **Etc. Co./ft.:**

**Notes:** Estimated quantity 25,000 cu. yds.

**Scale:** 1" = 4' Milo
SG-136

Site No. Qm

SG-136

Material: Sand and Gravel

County: Ellis

Location: N6, T33 S, R15 E

Remarks: E 1/4 NE 1/4 Jerome Urban, Bison, Kansas

Dry Conditions

Accessibility: Good

Status of Site: Open site, sampled

Expedition Data

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<th>Texture</th>
<th>Percent</th>
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Correlation Data

Geological Age: Pleistocene

Geological Source: Meade Formation

Material Similar to: Material reported on SNC Lab. Sheet No. 14082

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

Los Angeles Abrasion: 34.2

Absorption: 0.95

Wt. 44 lbs.

Notes: Tenant is: W 1/4 NE 1/4 Steven Kisner, Bison, Kansas

Date Tested: 11-60

Scale: 1" = 1/4 Mile
**STATE HIGHWAY COMMISSION OF KANSAS**

**MATERIAL SURVEY REPORT**

**SG-137**

- **Site No.:** 34
- **Date:** April 1963

**Sand and Gravel**

- **County:** Ellis
- **Location:** N8
- **Range:** 15S
- **T: No.:** 34
- **W: Range:** 17N

**Owner:** Al Roth

**Address:** Pfeifer, Kansas

**Nature of Deposit:** Dry

**Accessibility:** Good

**Status of Site:** Open site; simplified

**EXPLORATION DATA**

### Test Hole Data

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<thead>
<tr>
<th>Material</th>
<th>Depth of Material</th>
<th>Depth to Water</th>
<th>Material Density</th>
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<th>Material</th>
<th>Test Data</th>
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**Date Tested:** 7-61

**CONSOLATION DATA**

- **Geological Age:** Pleistocene
- **Geological Source:** Meade Formation
- **Material Similar to:** Material reported on SHC Lab. Sheet No. 487216
- **Specific Gravity (dry):** 32.2 (dry)
- **Los Angeles Wear:** 0.99
- **Absorption:** 117.07 lbs.
- **Grading "C":** 1-day 1.41, 3-days 1.35

**Scale:** 1" = 1/4 Mile
**MATERIAL SURVEY REPORT**

**Site No.** SG+138  
**Date** April 1963

**Material** Sand and Gravel  
**County** Ellis

**Location** SW4  
**Sec.** 27  
**Tow.** 15S  
**Range** 17W

**See Remarks**  
**P. Alphonse Roth**  
**Dweller, Kansas**

**Nature of Basemat**  
**Accessibility** Good

**Status of Site** Open site; sampled

---

**EXPLORATION DATA**

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<th>Material of Definition of Site</th>
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<th>Bulk Density (lb/ft³)</th>
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**Date Tested:** 5-61

**Correlation Data**

**Geological Age:** Pleistocene  
**Geological Source:** Neahoe Formation

**Material Similar To:** Material reported on SHC Lab. Sheet No. 16757

**Specific Gravity (Sat.)** 2.60  
**Grading "C" 32.6**

**Los Angeles Wear**  
**Grades** 0.97

**Absorption**  
**Wt. Co.Fr.** 107.61 lbs.

**Remarks**  
**Terriot, Wk, Albert Roth**
SG+139

Material Survey Report

Site No. SG+139

Date April 1963

Location

Sand and Gravel

County Ellis

NW 30 Sec. 15 T. 15S R. 19W

Owner Katie Phannenstiel et al. Munjer Rte., Hays, Kans.

Nature of Deposit DRY

Accessibility Good

Status of Site Open site; sampled

EXPLORATION DATA

<table>
<thead>
<tr>
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<th>Depth below Grade</th>
<th>Percent Exposed</th>
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CORRELATION DATA

Date Tested: 6-22

Geological Age Pleistocene

Geological Strata Meade Formation

Material Similar To Material reported on SHC Lab. Sheet No. 22712

Specific Gravity (Sat.) 2.61 (Por)

Loss on Ignition Grading "p" 32.3

Porosity 112.19 lbs.

Hand specimen 1-day 1.50, 3-days 1.51

Notes
**STATE HIGHWAY COMMISSION OF KANSAS**

**MATERIAL SURVEY REPORT**

**SG+140**

**Qm**

**Site No.**

**Date**  April 1963

**Material**  Sand and Gravel

**County**  Ellis

**Location**  

**SW**  Sec. 4  Twp. 156  Range  20W  

**Chester V. Reserve**  Rte. 2, Ellis, Kansas

**Erosion**  

**Nature of Deposit**  Dry

**Accessibility**  Good

**Status of Site**  Open site; sampled

**EXPLORATION DATA**

<table>
<thead>
<tr>
<th>Depth of Cut (ft.)</th>
<th>Depth of Fill (ft.)</th>
<th>Materia of Deposit</th>
<th>Saturation</th>
<th>Percent Extracted</th>
<th>US</th>
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<th>200</th>
<th>P.P.</th>
<th>L.L.</th>
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**CORRELATION DATA**

Dated Tested: 8-62

**Geological Age**  Pleistocene

**Geological Source**  Meade Formation

**Material Source**  

**Material reported on SHC Lab. Sheet No.**  24069

**Specific Gravity (dry)**  2.59

**Los Angeles Bear**

**Hardness**  0.28

**Vt. Cn. Ft.**  109.6 lbs.  

**Dr. Rd.**  1-Jay 1.24, 3-days 1.24

**Remarks**

**Diagram**

- Open Pit
- SG+140
- Smoky Hill River

**Scale**  1" = 1/4 Mile
STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

SG-141

Site No. 1:

Date April 1963

Material: Sand and Gravel

County: Ellis

Laying: 8

Directions: 8

Remarks: 8

Nature of Deposit: Dry

Accessibility: Good

Status of Site: Open site; sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test No.</th>
<th>Material</th>
<th>Depth at Test</th>
<th>Percent Material</th>
<th>PFC</th>
<th>VFN</th>
<th>70</th>
<th>150</th>
<th>200</th>
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<tbody>
<tr>
<td>Av. SNC</td>
<td>2 4 9 2146 8698 99</td>
<td>0.65</td>
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<td></td>
<td></td>
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Correlation Data

Geological Age: Pleistocene

Geological Source: Meade Formation

Material Similarity: Material reported on SNC Lab. Sheet No. 24251

Specific Gravity (Sat.) 2.61

Grading "D" 35.4

Los Angeles Value 0.50

Absorption 112.32 lbs.

St. Dr. Ft. 1-day 1.39, 3-days 1.44

Remarks

Scale: 1" = 1/4 Mile
MATERIAL SURVEY REPORT

SG-142

Fr

Site No. Material

Sand and Gravel

Date April 1963

County Ellis

Location

NW 4 Sec. 30 Tp. 13S Range 16W

Owner H. B. Kuhn Victoria, Kansas

Nature of Deposit Dry

Accessibility Good

Status of Site Open Site Sampled

EXPLANATION DATA

AV. SHC

Material

Depth

Depth

Cumul.

1 ft

2 ft

3 ft

6 ft

12 ft

24 ft

36 ft

42 ft

54 ft

60 ft

G.F.

L.L.

F.L.

1 3 7 21 4774 3296 3.41

CORRELATION DATA

Date Tested: 6-60

Geological Age Pleistocene-Recent

Geological Source Undifferentiated

Material reported on SHC Lab. Sheet No. 11687

Relative密度 (Sat.) 2.61

Relative密度 (Dry) 2.61

Los Angeles Number Grading "D" 34.1

Absorption 0.88

MO. No. 107.19 lbs. 1-day 1.05, 3-days 1.11

Notes Material being produced from a 6 ft. bed with approximately 6 ft. overdrown. Mortar bed and zones of caliche will be encountered. Material has been used by the Ellis County Highway Dept.
**Material Survey Report**

**Site No.:** MF-144  
**Quadrant:** NW/4  
**Date:** April 1963  
**County:** Ellis  
**Location:** Chester V. Reserve Rte. 2, Ellis, Kansas  
**Owner:** Dry  
**Accessibility:** Good  
**Status of Site:** Open site; sampled

### Exploration Data

|    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|
| Av. SHC | 0.5 | 4 | 0 | 0 | 0 | 3 | 5 | 91 |

### Depositional Data

**Geological Age:** Pleistocene  
**Geological Unit:** Meade Formation  
**Material Similar to:** Material reported on SHC Form 216, No. 26-37

**Specific Gravity (Int.)**  
**Sediment:** Sand

**Estimated Quantity:** 12,000 cu. yds.