

APPENDIX I

The following site data forms are designated as "open sites; not sampled." The sites described herein are depicted on the county materials maps as a "●".

LEGEND

----- Trail or lane

———— Road

+ + + + + Railroad

~~~~~ Hedge or trees

~~~~~ Major streams

~~~~~ Intermittent streams

~~~~~ Pond or lake

● Open materials site:
not sampled

○ Center of section

□ Farm site

⊕ Cemetery

⌚ School

⌚ Church

▒ Town or city

MATERIAL SURVEY REPORT

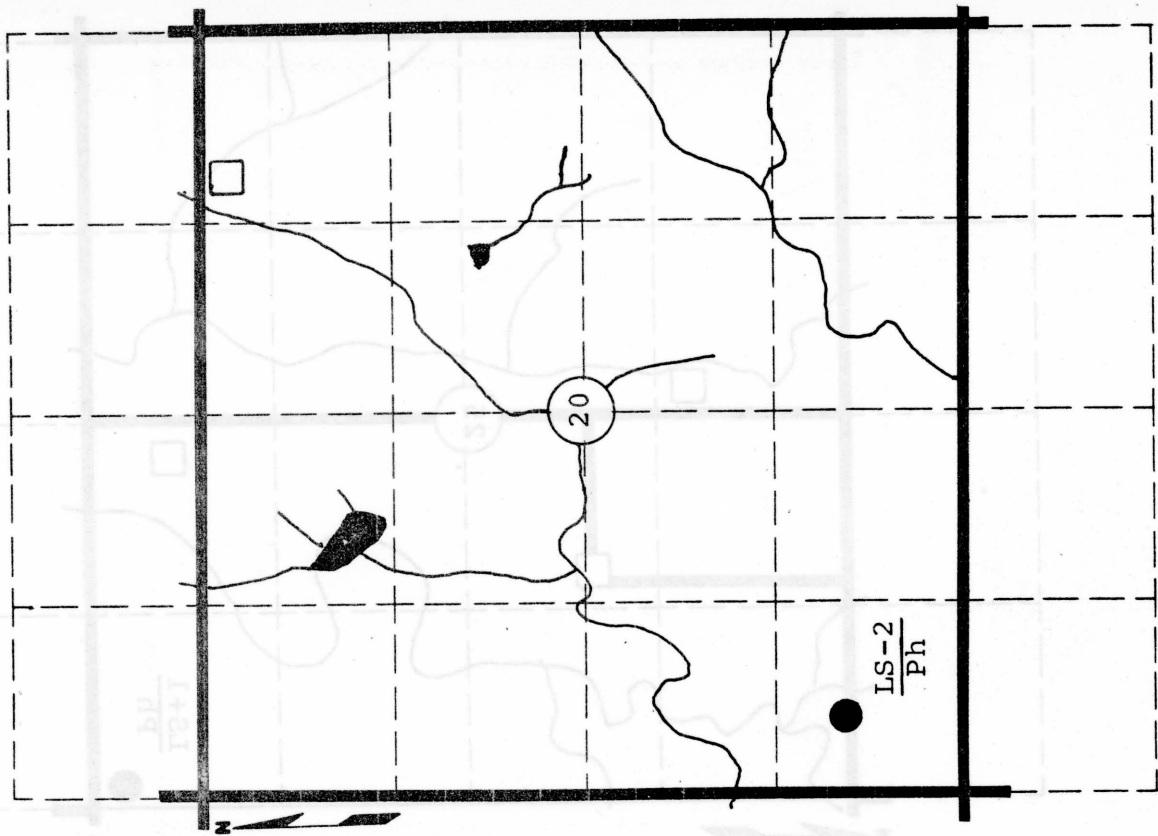
Site No. LS-2 Date November, 1968
Ph
 Material Limestone County Butler
 Location SW 1/4 SW 1/4 Sec. 20 Twp. 24S Range 4E
 Owner Charles D. Artz Potwin, Kansas
 Nature of Deposit Dry Accessibility Good Site Located on Plate I
 Status of Site Open site; not sampled

EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of over-Burden | Depth of Material | Percent Retained | | | | | | | | Wash 200 | G.F. | L.L. | P. I. |
|-----------|----------------------------|----------------------|-------------------|------------------|-----|-----|---|---|----|----|----|----------|------|------|-------|
| | | | | 1 1/2 | 3/4 | 3/8 | 4 | 8 | 16 | 30 | 50 | | | | |
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CORRELATION DATA

Geological Age Permian
 Geological Source Herington Limestone Member
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu.Ft. _____ Str. Ratio _____
 Remarks _____



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

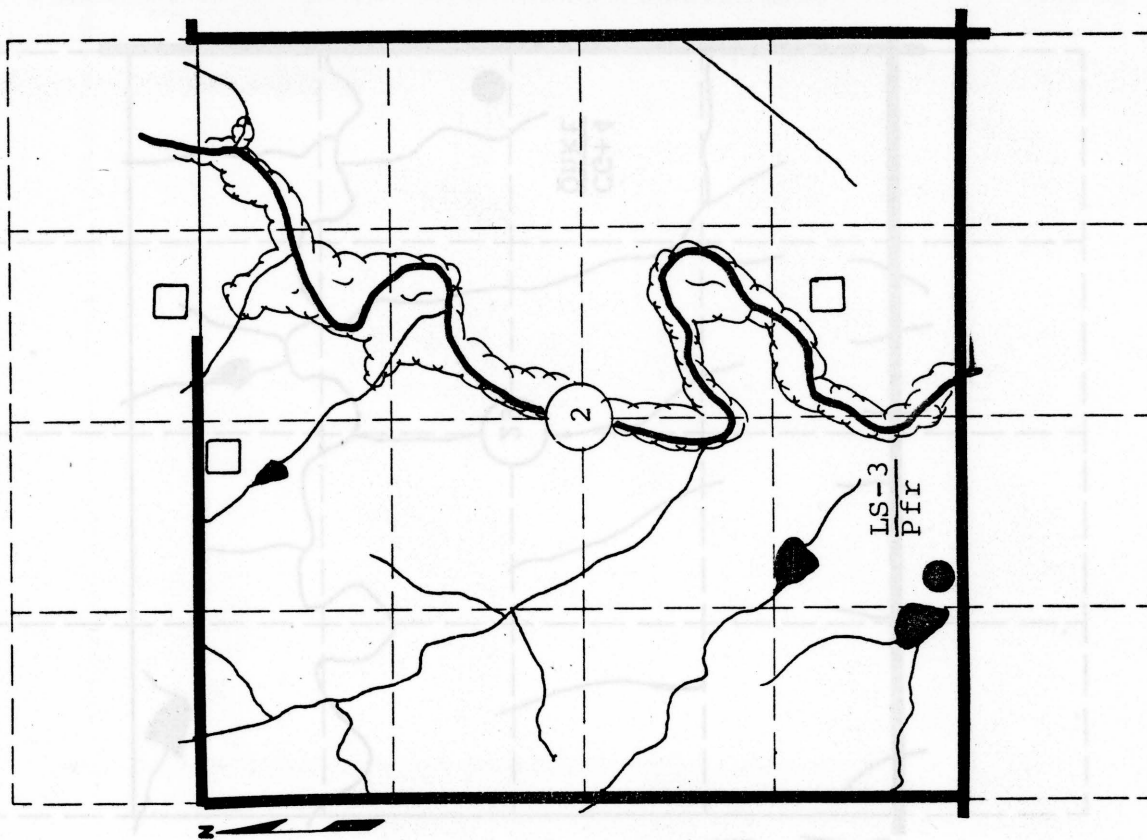
LS-3
Pfr
 Site No. _____ Date November, 1968
 Material Limestone County _____
 Location SW $\frac{1}{4}$ Sec. 2 Twp. 24S Range 6E
 Owner Lewis Vogelmann ^{name} Cassoday, Kansas
 Nature of Deposit Dry Accessibility Good address _____
 Status of Site Open site; not sampled Site Located on Plate II

EXPLORATION DATA

[illegible]

CORRELATION DATA

Geological Age Permian
Geological Source Fort Riley Limestone Member
Material Similar To _____
Specific Gravity (Sat.) _____ (Dry) _____
Los Angeles Wear _____
Absorption _____ Soundness _____
Wt. Cu.Ft. _____ Str. Ratio _____
Remarks _____



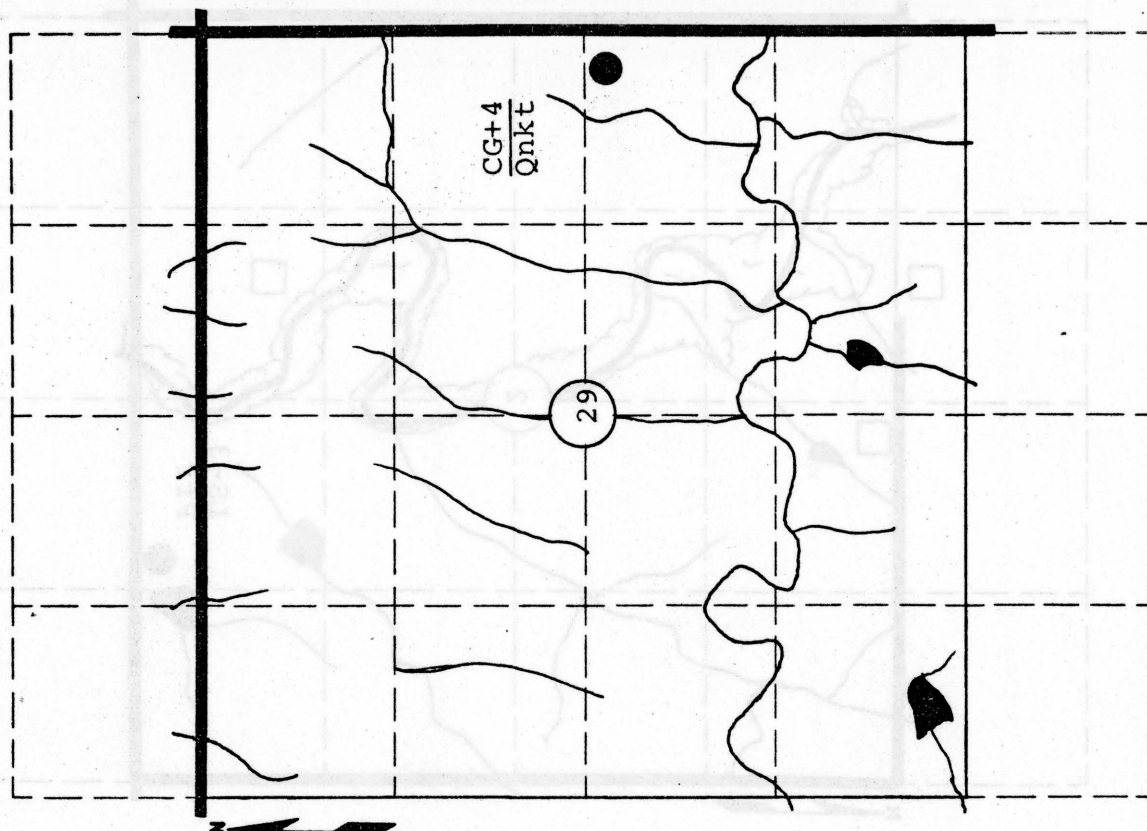
Scale: 1" = $\frac{1}{4}$ Mile

EXPLORATION DATA

[illegible]

CORRELATION DATA

Quaternary (Nebraskan-Kansan)
Chert Gravel Terrace Deposit
Specific Gravity (Sat.) (dry)
Los Angeles Wear
Absorption Soundness
Wt. Cu.Ft. Str. Ratio
Remarks



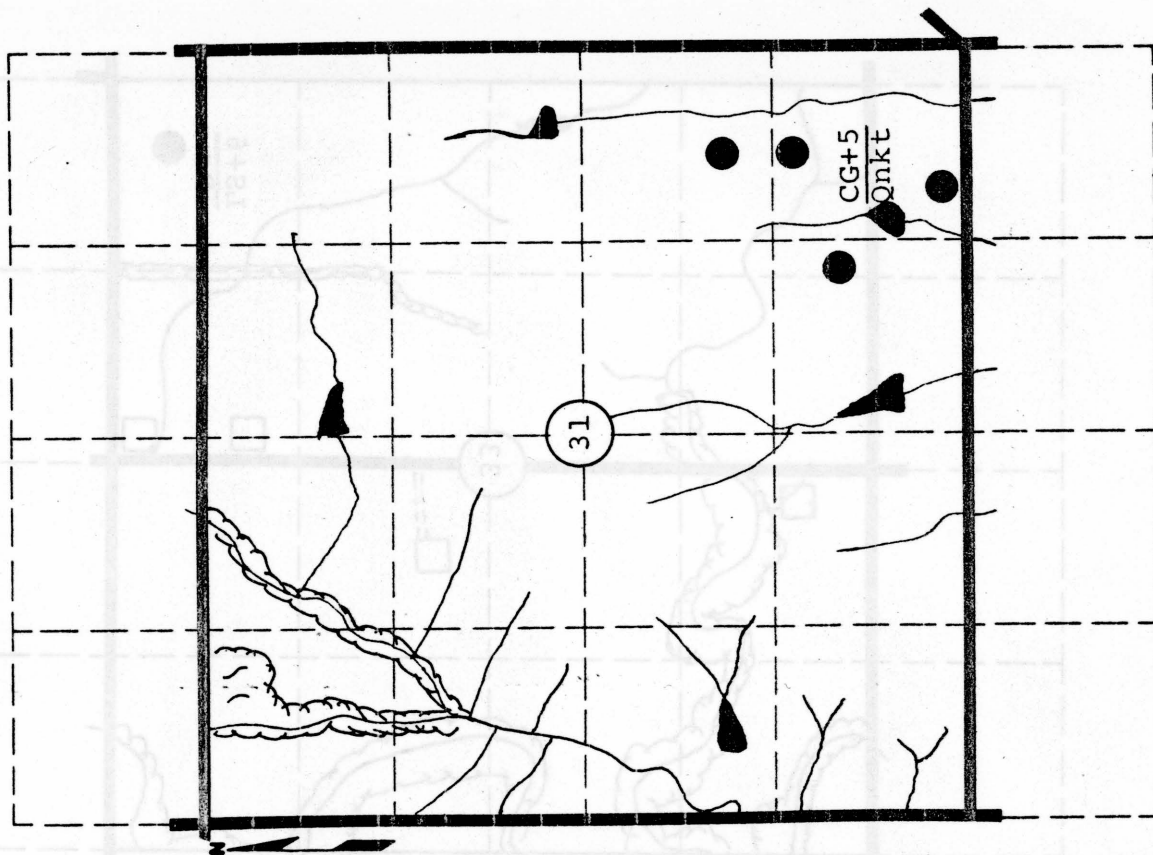
Scale: 1" = $\frac{1}{4}$ Mile

MATERIAL SURVEY REPORT

EXPLORATION DATA

CORRELATION DATA

Scale: 1" = $\frac{1}{4}$ Mile



MATERIAL SURVEY REPORT

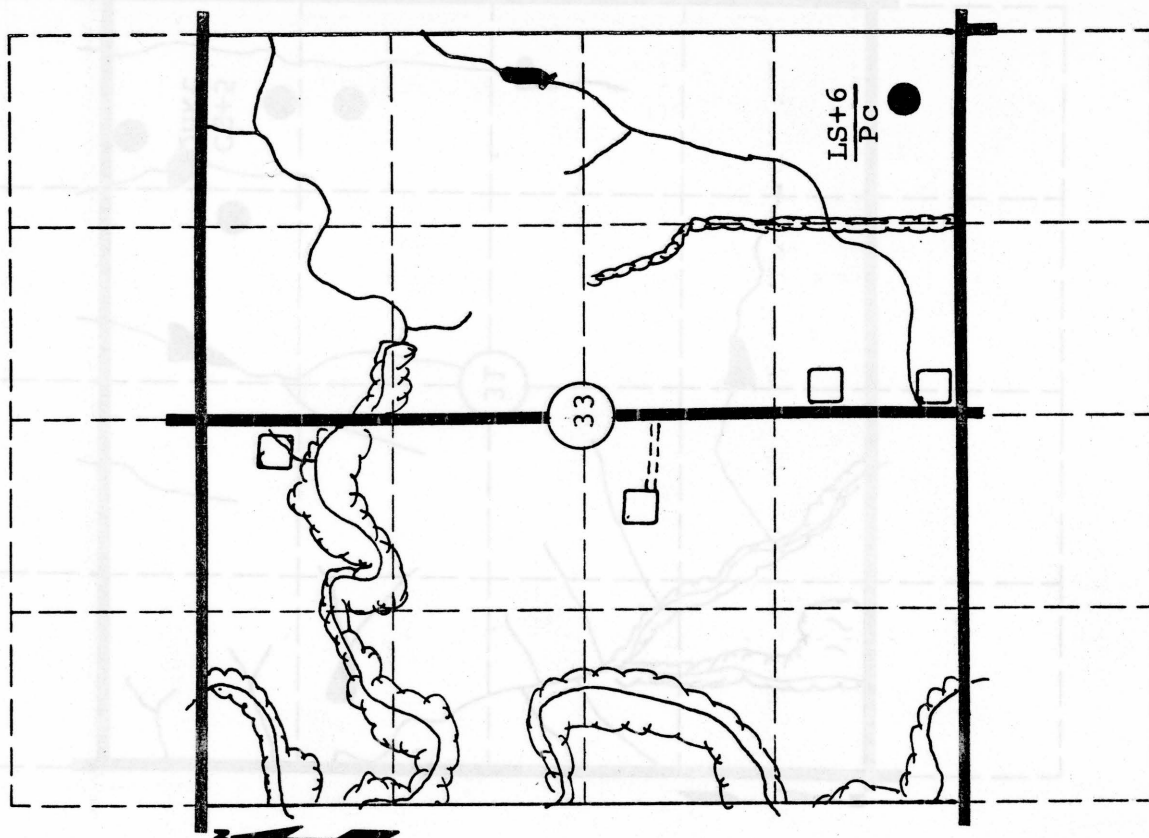
LS+6
PC
 Site No. _____ Date November, 1968
 Material Limestone County Butler
 Location SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 33 Twp. 26S Range 4E
 Owner Rayford Newman, 1562 N. Battin, Wichita, Kansas
 name _____ address _____
 Nature of Deposit Dry Accessibility Good Site Located on Plate V
 Status of Site Open site; not sampled

EXPLORATION DATA

[illegible]

CORRELATION DATA

Geological Age Permian
Geological Source Cresswell Limestone Member
Material Similar To _____
Specific Gravity (Sat.) _____ (Dry) _____
Los Angeles Wear _____
Absorption _____ Soundness _____
Wt. Cu.Ft. _____ Str. Ratio _____
Remarks _____



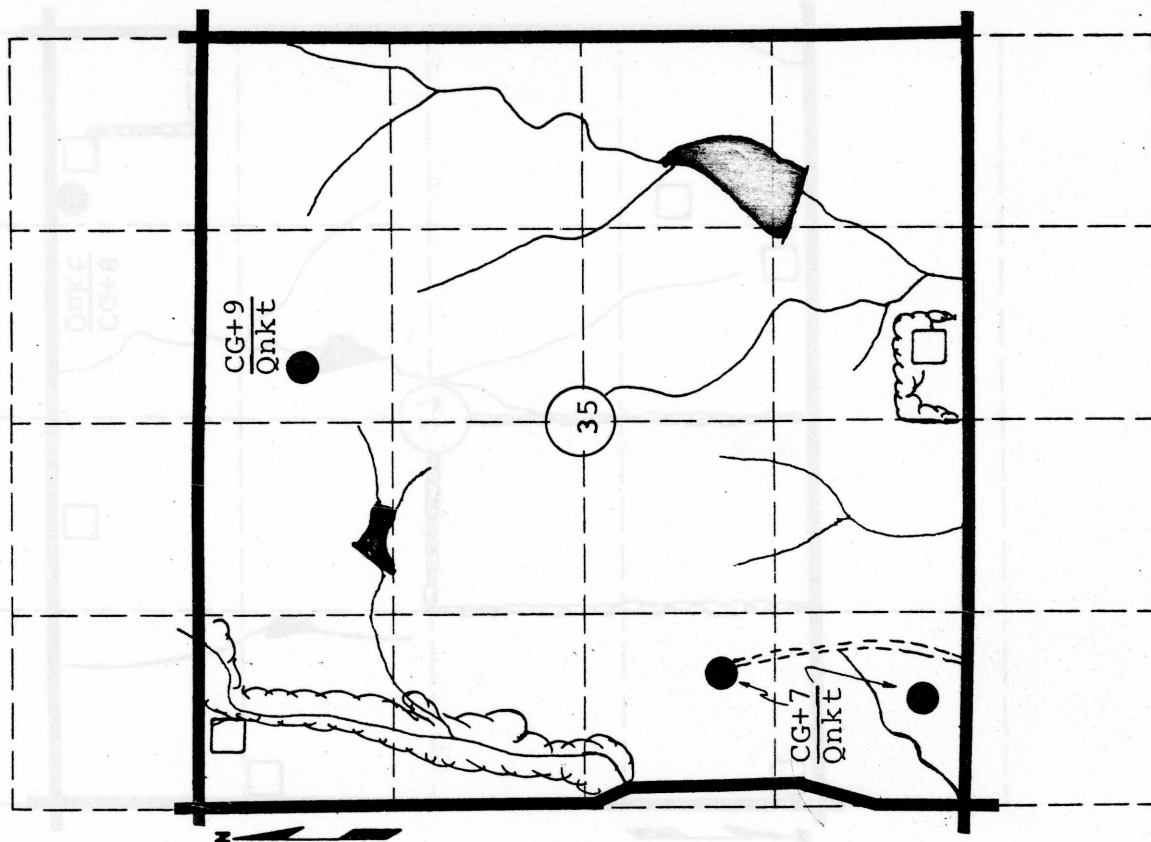
Scale: 1" = $\frac{1}{4}$ Mile

MATERIAL SURVEY REPORT

CG+7
Qnkt
Site No. _____ Date November, 1968
Material Chert Gravel County _____
Location SW¹/₄ Sec. 35 Twp. 27S Range 5E
Owner Dan Parks 1527 Washington Augusta, Kansas
name address
Nature of Deposit Dry Accessibility Good Site Located on Plate V
Status of Site Open site; not sampled

[illegible]

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 _____



Scale: 1" = $\frac{1}{4}$ Mile

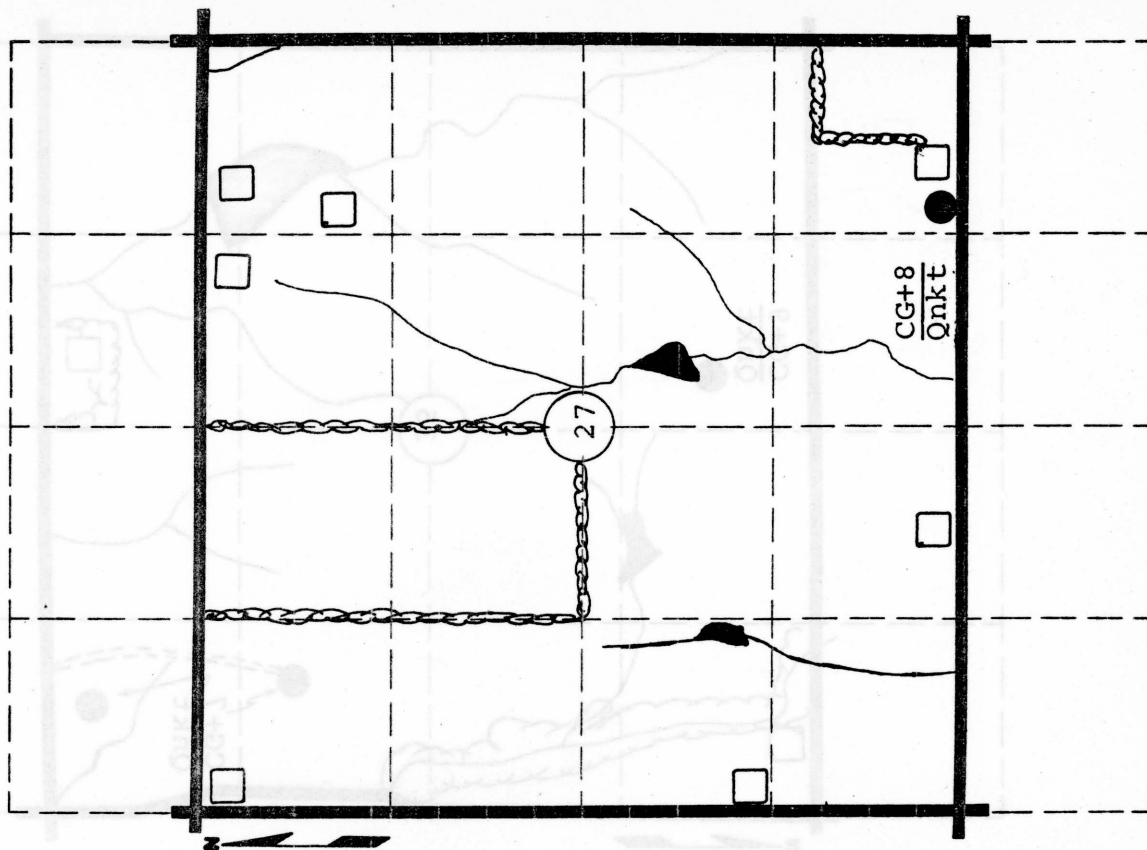
MATERIAL SURVEY REPORT

EXPLORATION DATA

[illegible]

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 _____



Scale: 1" = $\frac{1}{4}$ Mile

MATERIAL SURVEY REPORT

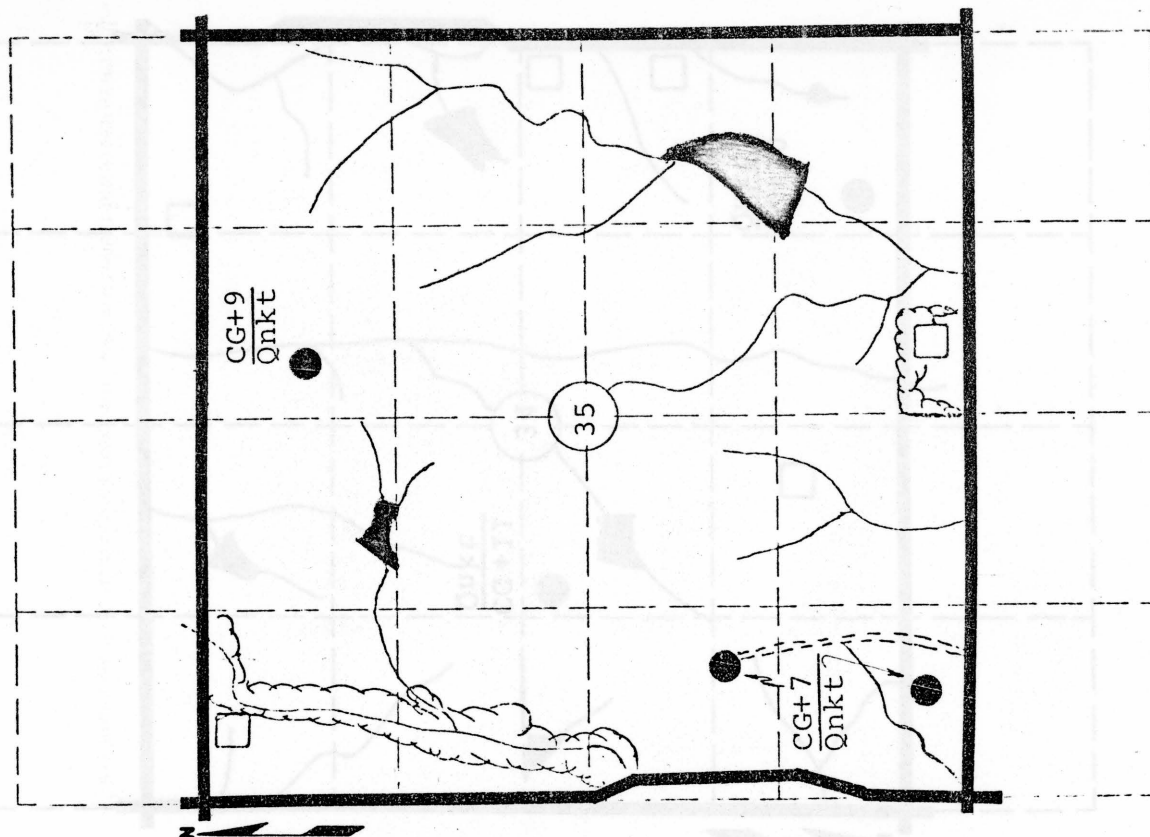
CG+9
Onkt _____ Date November, 1968
Material Chert Gravel County Butler
NE $\frac{1}{4}$ _____ Sec. 35 Twp. 27S Range 5E
Location _____
Owner Byron G. Stout, 1214 E. Douglas, Wichita, Kansas
name _____ address _____
Nature of Deposit Dry Accessibility, Good Site Located on Plate V
Status of Site Open site; not sampled

EXPLORATION DATA

[illegible]

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 _____
Mt. Cu.Ft. _____ Str. Ratio _____
Remarks _____



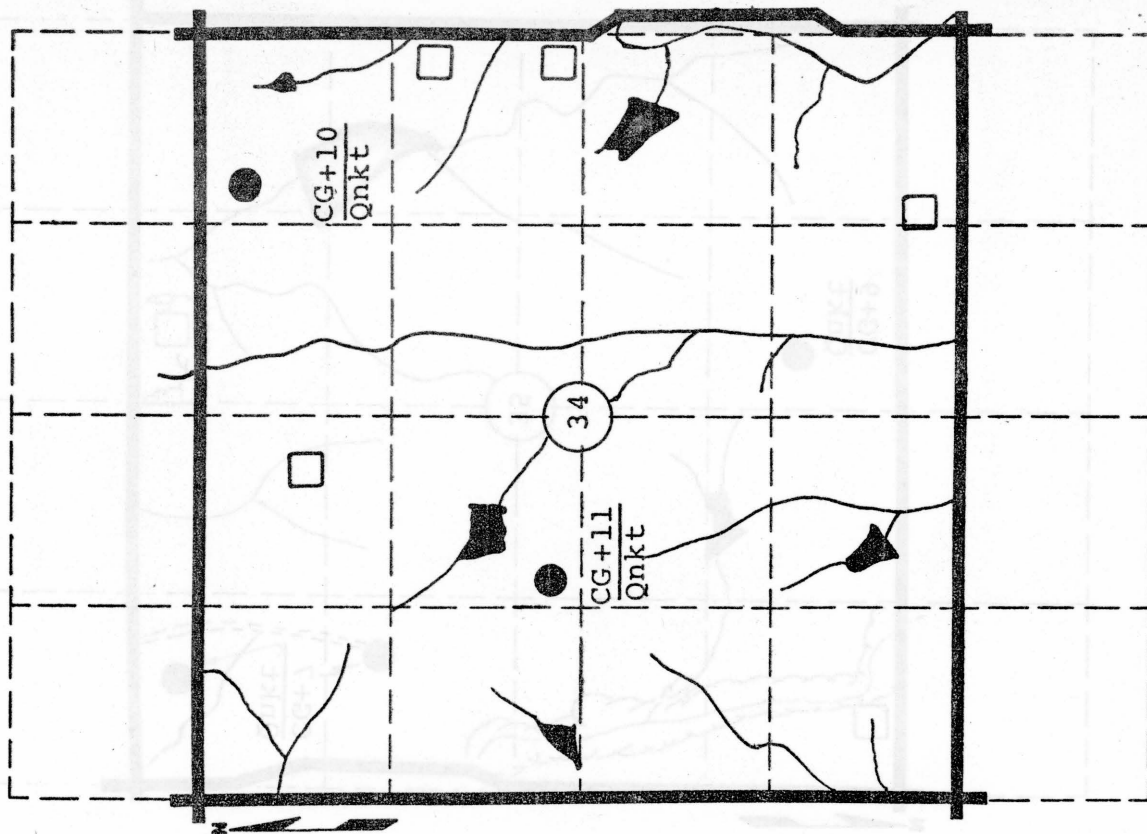
Scale: 1" = $\frac{1}{4}$ Mile

MATERIAL SURVEY REPORT

EXPLORATION DATA

CORRELATION DATA

Scale: 1" = $\frac{1}{4}$ Mile



MATERIAL SURVEY REPORT

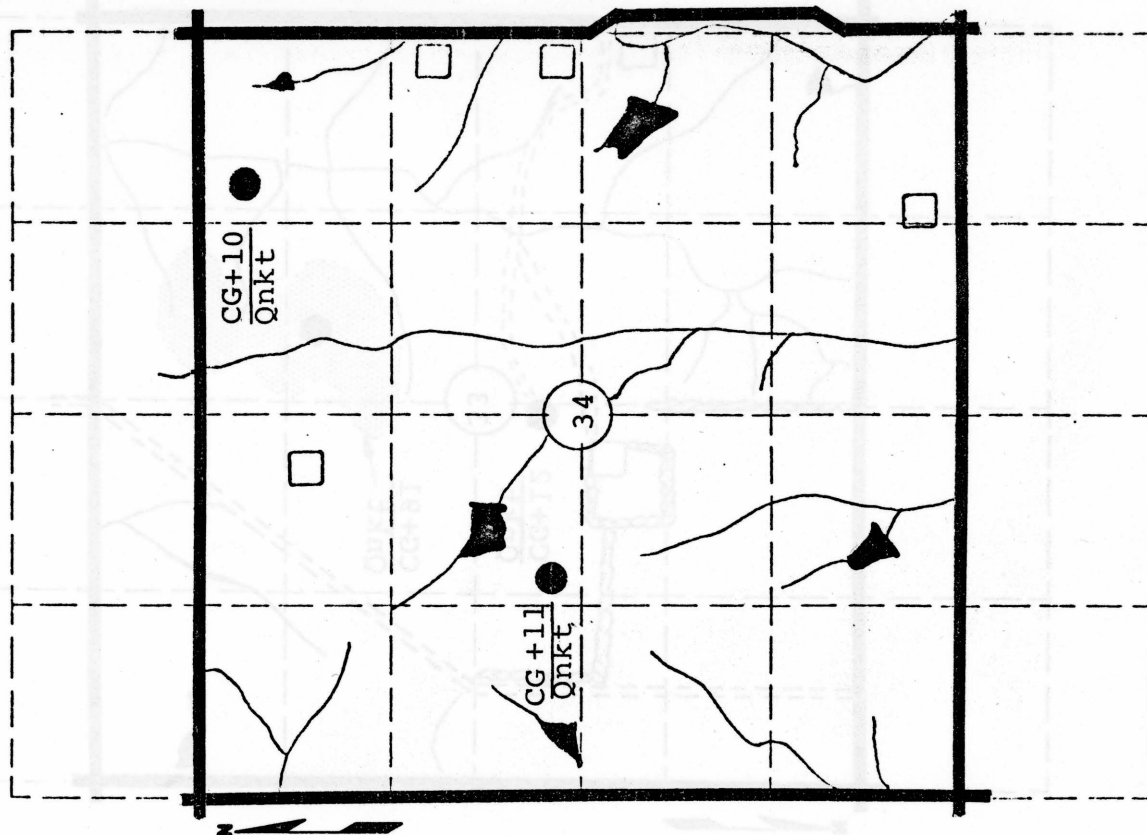
CG+11
Qnkt
Site No. _____ Date November, 1968
Material Chert Gravel County Butler
Location NW $\frac{1}{4}$ Sec. 34 Twp. 27S Range 5E
Owner Glenn C. Lietzke R. R. 2 Augusta, Kansas
name
Mature of Deposit Dry Accessibility Good Site Located on Plate V
Status of Site Open site; not sampled

EXPLORATION DATA

[illegible]

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 _____



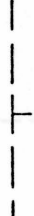
Scale: 1" = $\frac{1}{4}$ Mile

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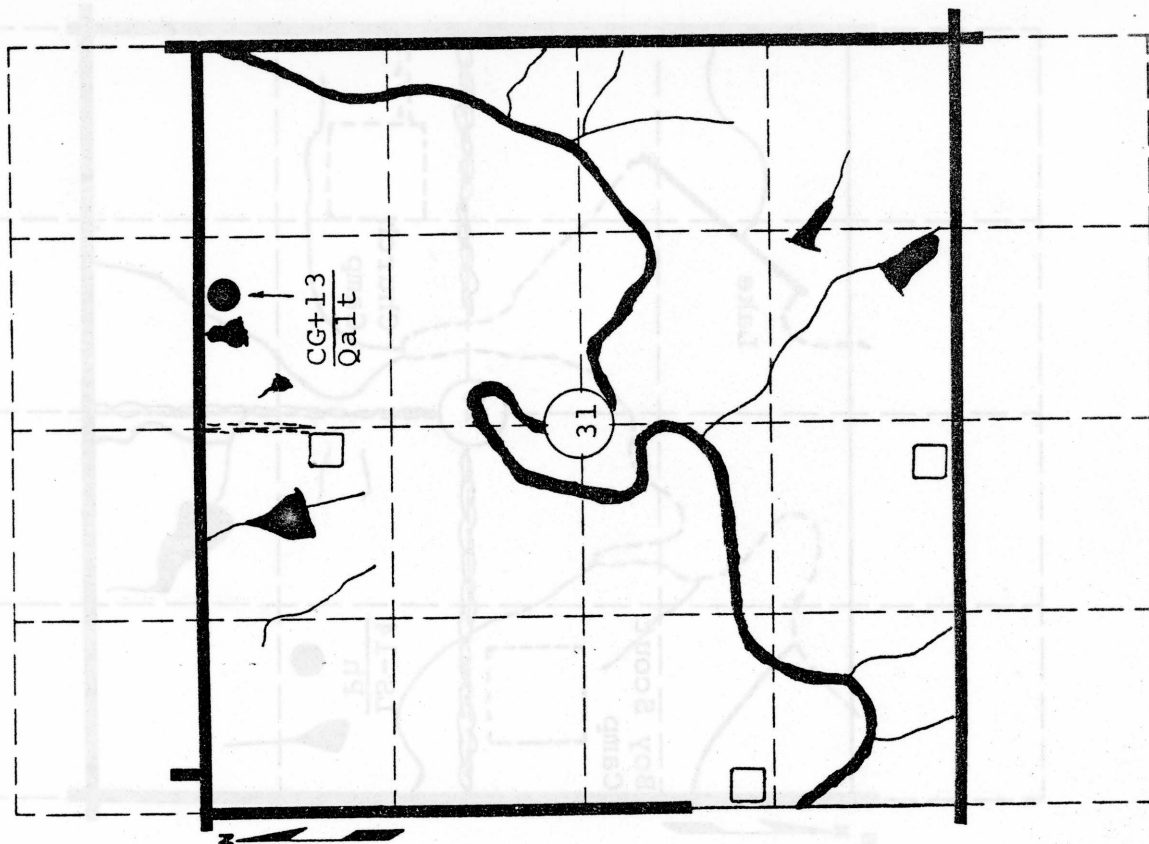
1/4 Mile

EXPLORATION DATA

[illegible]

CORRELATION DATA

Geological Age Quaternary
Geological Source Alluvium & Terrace Deposit
Material Similar To _____
Specific Gravity (Sat.) _____ (Dry) _____
Los Angeles Wear _____
Absorption _____ Soundness _____
Wt. Cu.ft. _____ Str. Ratio _____
Remarks _____



Scale: 1" = $\frac{1}{2}$ Mile

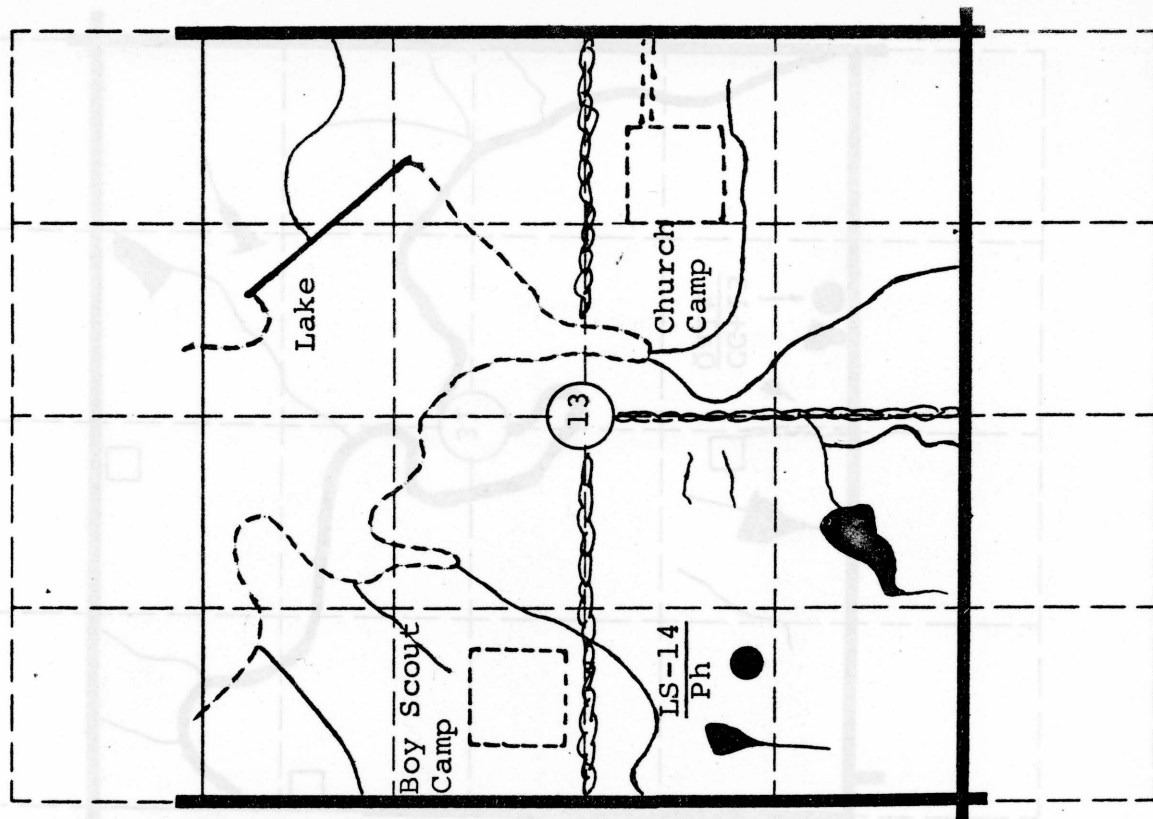
MATERIAL SURVEY REPORT

EXPLORATION DATA

[illegible]

CORRELATION DATA

Geological Age Permian
Geological Source Herington Limestone Member
Material Similar To _____
Specific Gravity (Sat.) (Dry) _____
Locales Near Los Angeles _____
Absorption _____ Soundness _____
Wt. Cu.Ft. _____ Str. Ratio _____
Remarks _____



Scale: 1" = $\frac{1}{4}$ Mile

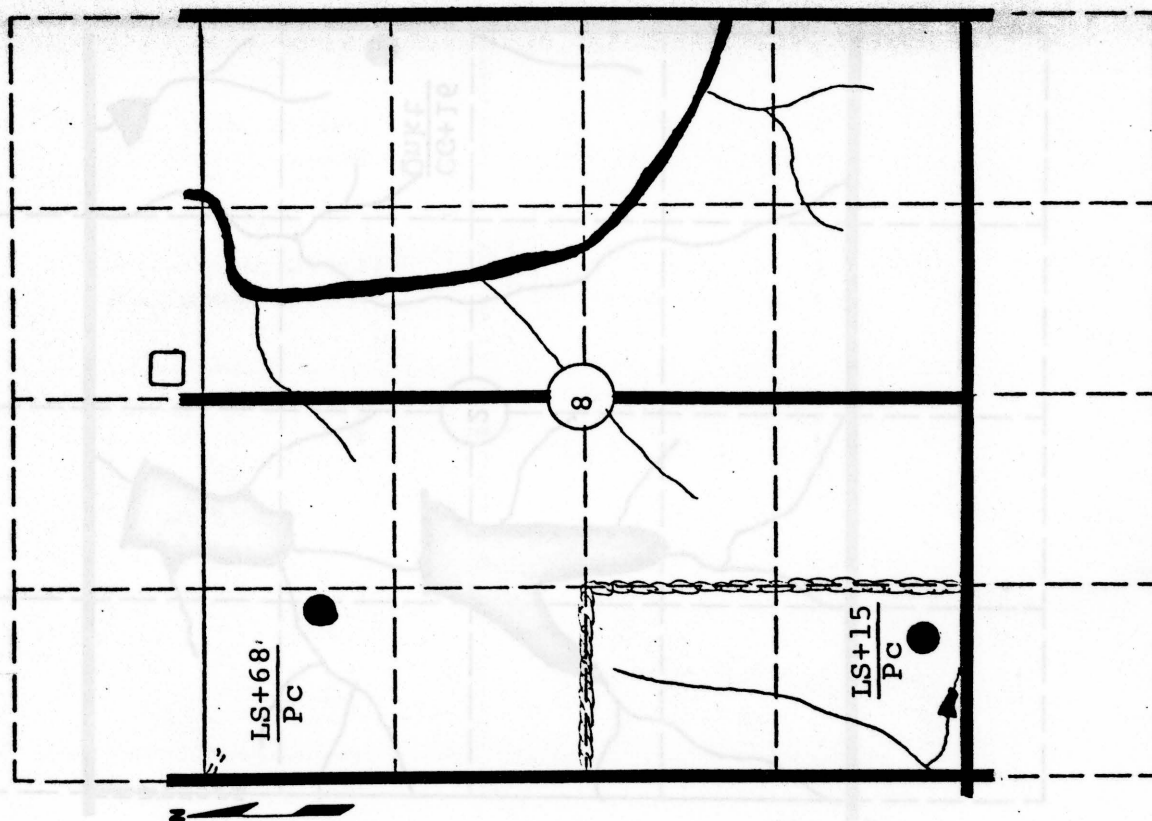
MATERIAL SURVEY REPORT

EXPLORATION DATA

[illegible]

CORRELATION DATA

Geological Age Permian
Geological Source Cresswell Limestone Member
Material Similar To _____
Specific Gravity (Sat.) _____ (Dry) _____
Los Angeles Wear _____
Absorption _____ Soundness _____
Wt. Cu.ft. _____ Str. Ratio _____
Remarks James A. Morgan
2002 Shannonhouse Rd., Huntsville, Alabama



Scale: 1" = $\frac{1}{4}$ Mile

MATERIAL SURVEY REPORT

CG-16
Qnkt November, 1968
Site No. Date

Material Chert Gravel County Butler

Location NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 2 Twp. 27S Range 6E

Owner See Remarks name

Nature of Deposit Dry Accessibility Good address VI Site Located on Plate

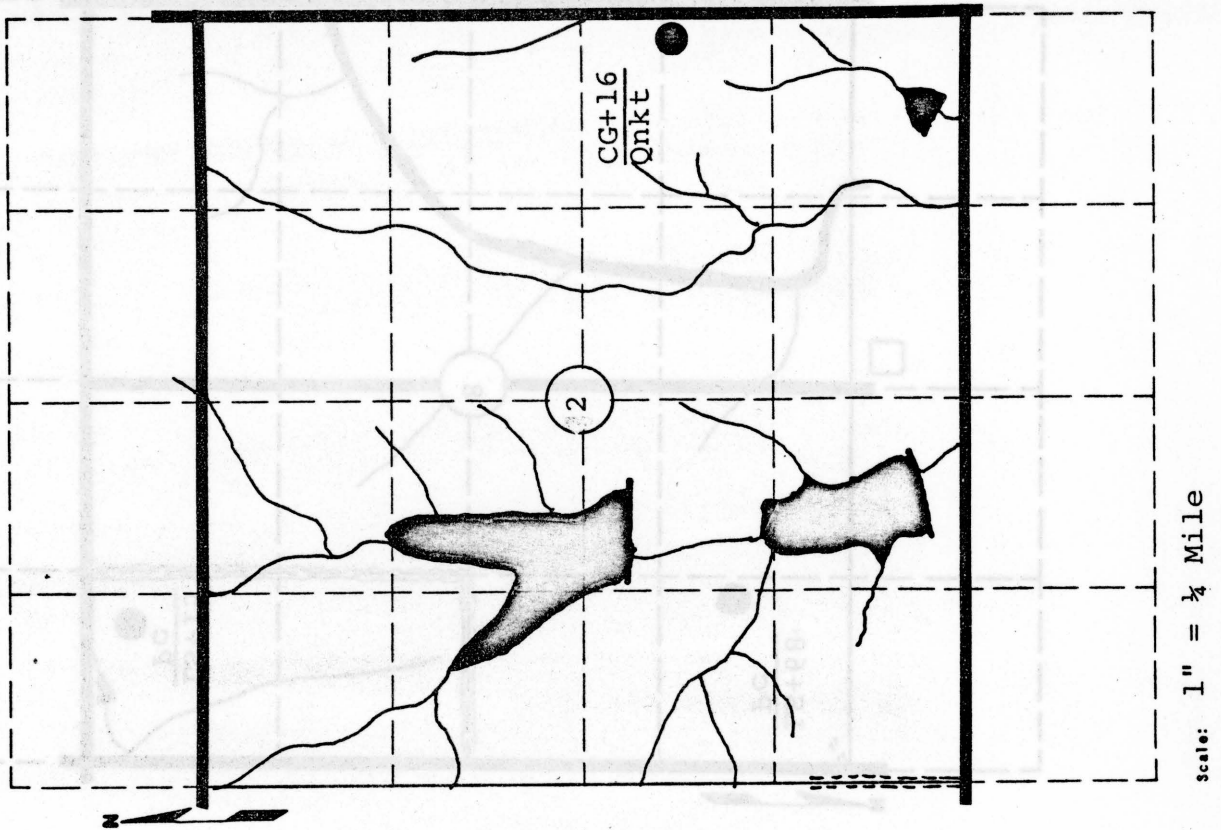
Status of Site Open site; not sampled

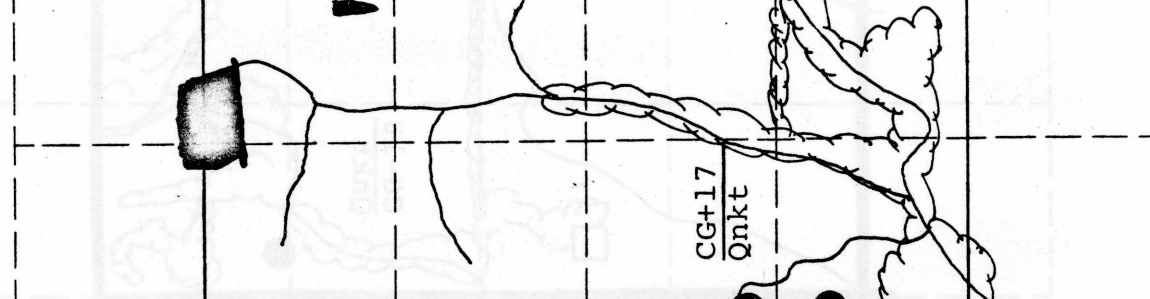
EXPLORATION DATA

[illegible]

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 Alice Coleman & Grace Dixon
120 N. Myrtle, Eureka, Kansas



$$\frac{0.24}{0.24 + 0.24}$$


e: 1" = $\frac{1}{4}$ Mile

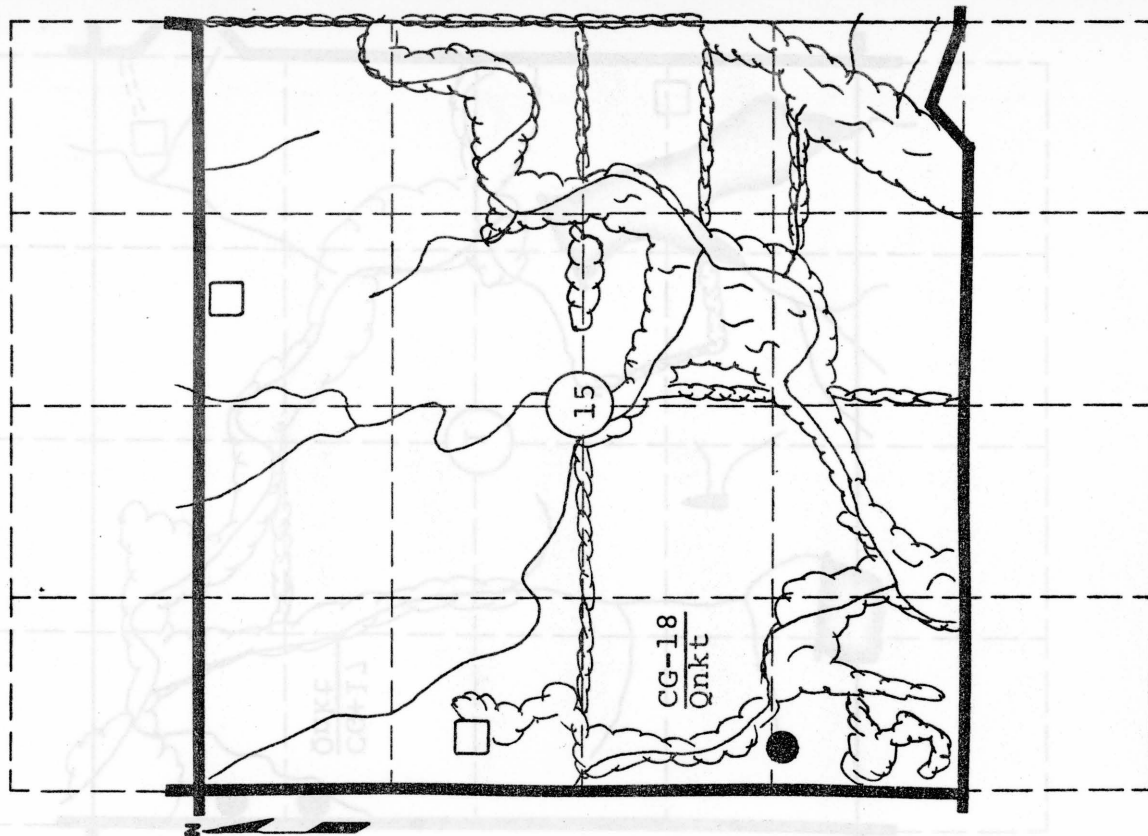
MATERIAL SURVEY REPORT

EXPLORATION DATA

[illegible]

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 _____



Scale: 1" = $\frac{1}{4}$ Mile

MATERIAL SURVEY REPORT

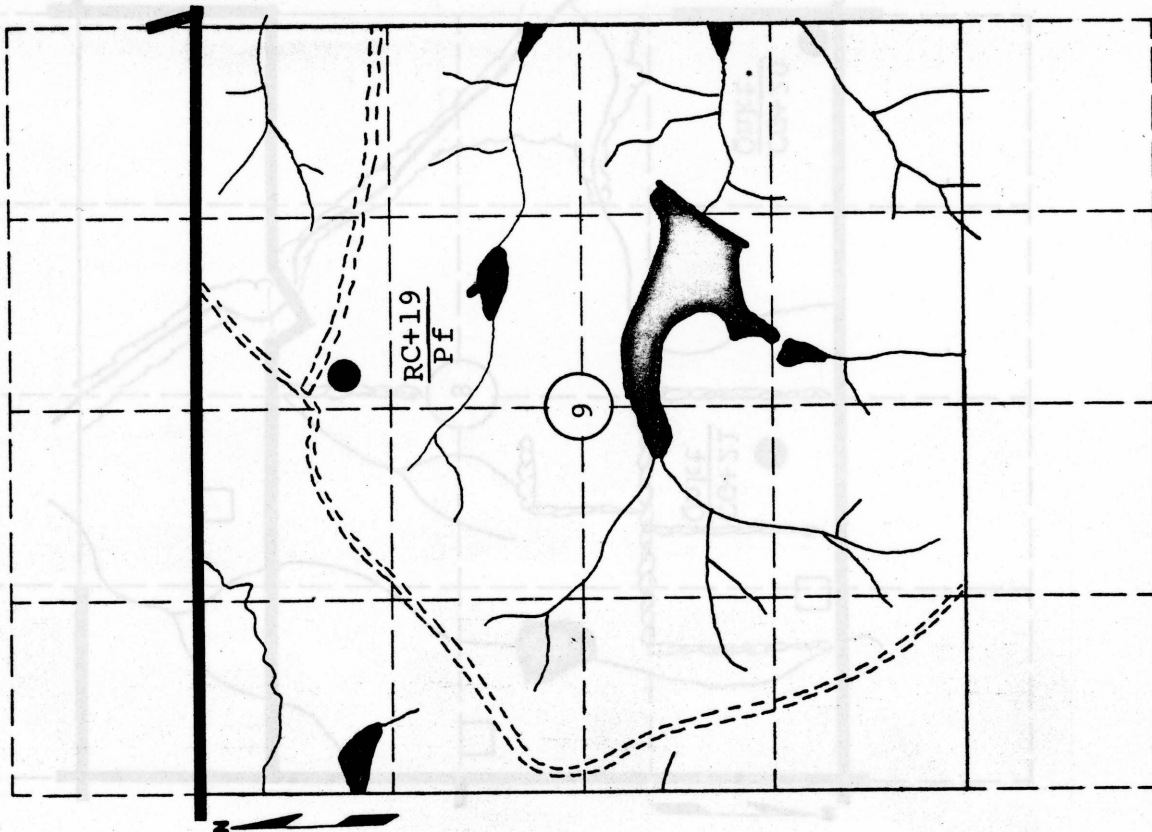
RC+19
 PF
 Site No. _____ Date November, 1968
 Material Residual Chert County Butler
 Location NW 1/4 NE 1/4 Sec. 9 Twp. 27S Range 8E
 Owner K. T. Wiedeman, Box 1276, El Dorado, Kansas
 Name _____ address _____
 Nature of Deposit Dry Accessibility Fair Site Located on Plate VI
 Status of Site Open site; not sampled

EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of over-burden | Depth of Material | Percent Retained | | | | | | | Wash 200 | 100 | 50 | 30 | 16 | 8 | 3/8 | 3/4 | 1 1/2 | L.L. | P.L. |
|-----------|----------------------------|----------------------|-------------------|------------------|-----|-----|-----|---|---|----|----------|-----|----|----|----|---|-----|-----|-------|------|------|
| | | | | 1 | 1/2 | 3/4 | 3/8 | 4 | 8 | 16 | | | | | | | | | | | |
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CORRELATION DATA

Geological Age Permian
 Geological Source Florence Limestone Member
 Material Similar To _____
 Specific Gravity (sat.) _____ (dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu.Ft. _____ Str. Ratio _____
 Remarks _____



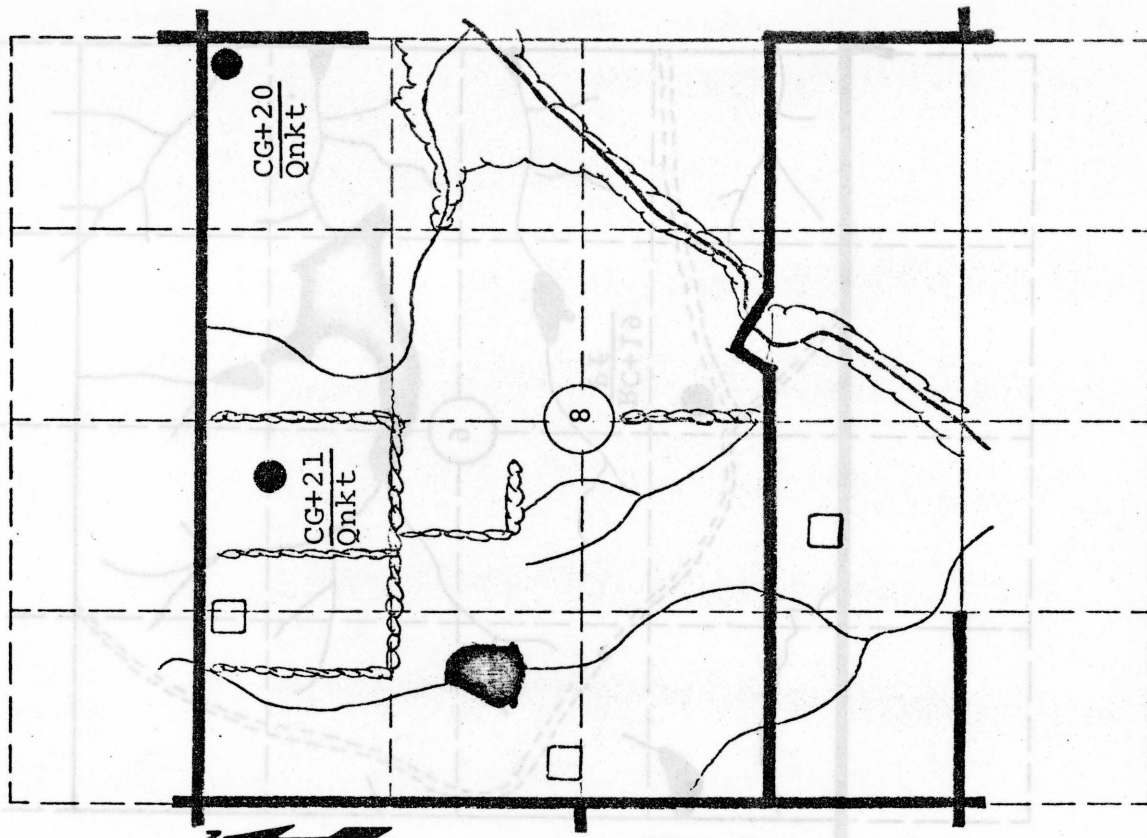
Scale: 1" = 1/4 Mile

MATERIAL SUPPLY REPORT

EXPLOSION DATA

CORRELATION DATA

scale: 1" = $\frac{1}{4}$ Mile



MATERIAL SURVEY REPORT

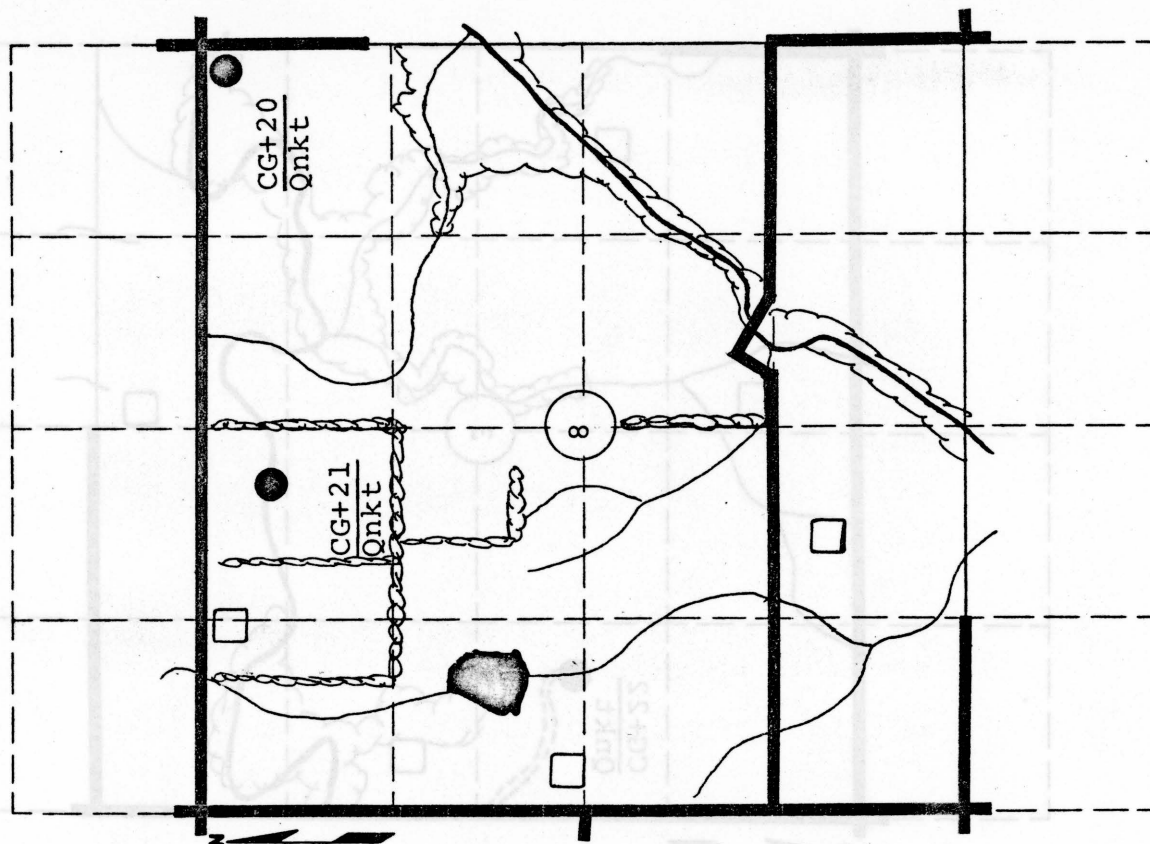
CG+21 _____
Onkt _____ Date November, 1968
 Material Chert Gravel County Butler
 Location NE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 8 Twp. 28S Range 5E
 Owner Bill C. Carr R. R. 2 Augusta, Kansas
 name address
 Nature of Deposit Dry Accessibility Good Site Located on Plate V
 Status of Site Open site; not sampled

EXPLORATION DATA

[illegible]

CORRELATION DATA

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



Scale: 1" = $\frac{1}{4}$ Mile

MATERIAL SURVEY REPORT

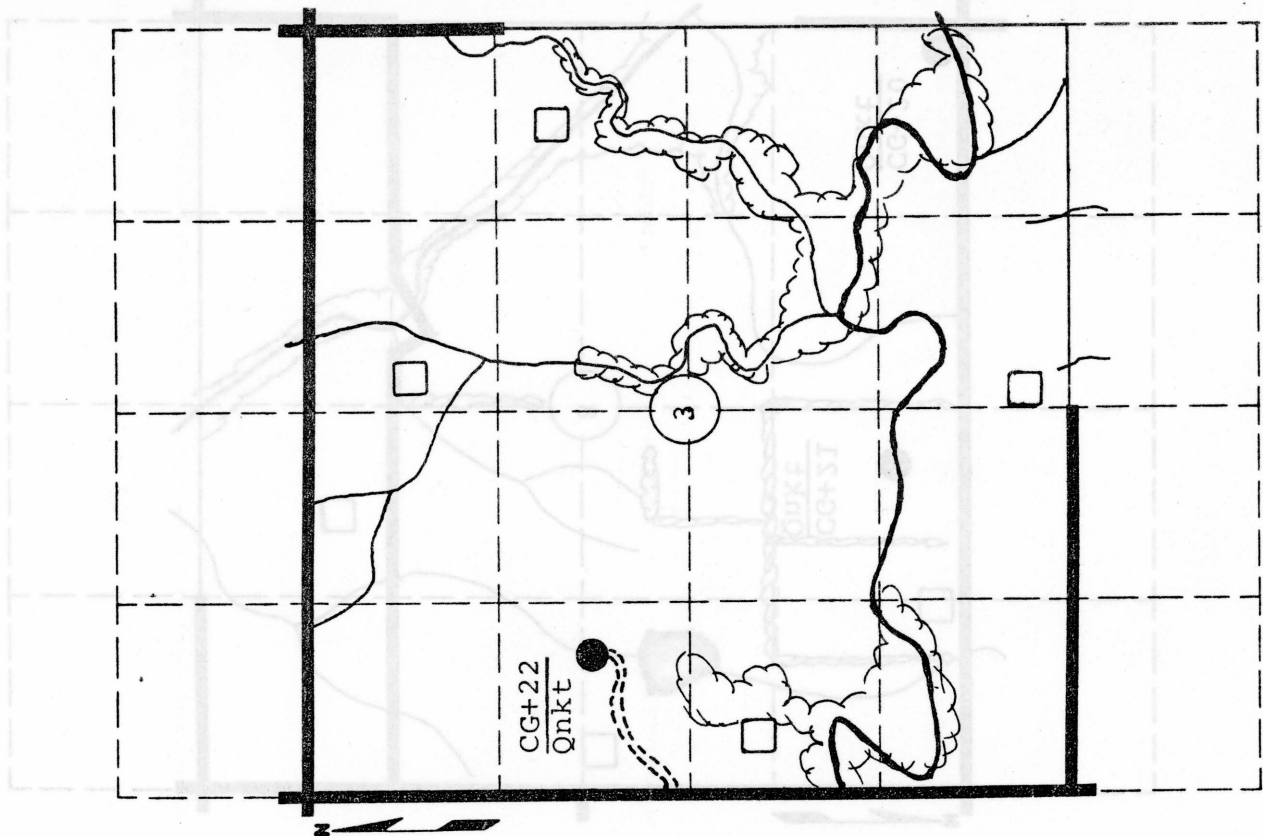
CG+22 _____ Date November, 1968
Qnkt _____
 Material Chert Gravel _____ County Butler _____
 Location SW $\frac{1}{4}$ NW $\frac{1}{4}$ _____ Sec. 3 _____ Twp. 28S _____ Range 5E _____
 Owner Grace Lietzke, 144 E. Broadway, Augusta, Kansas _____
 name _____ address _____
 Nature of Deposit Dry _____ Accessibility Good _____ Site Located on Plate V _____
 Status of Site Open site; not sampled _____

EXPLORATION DATA

[illegible]

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 _____



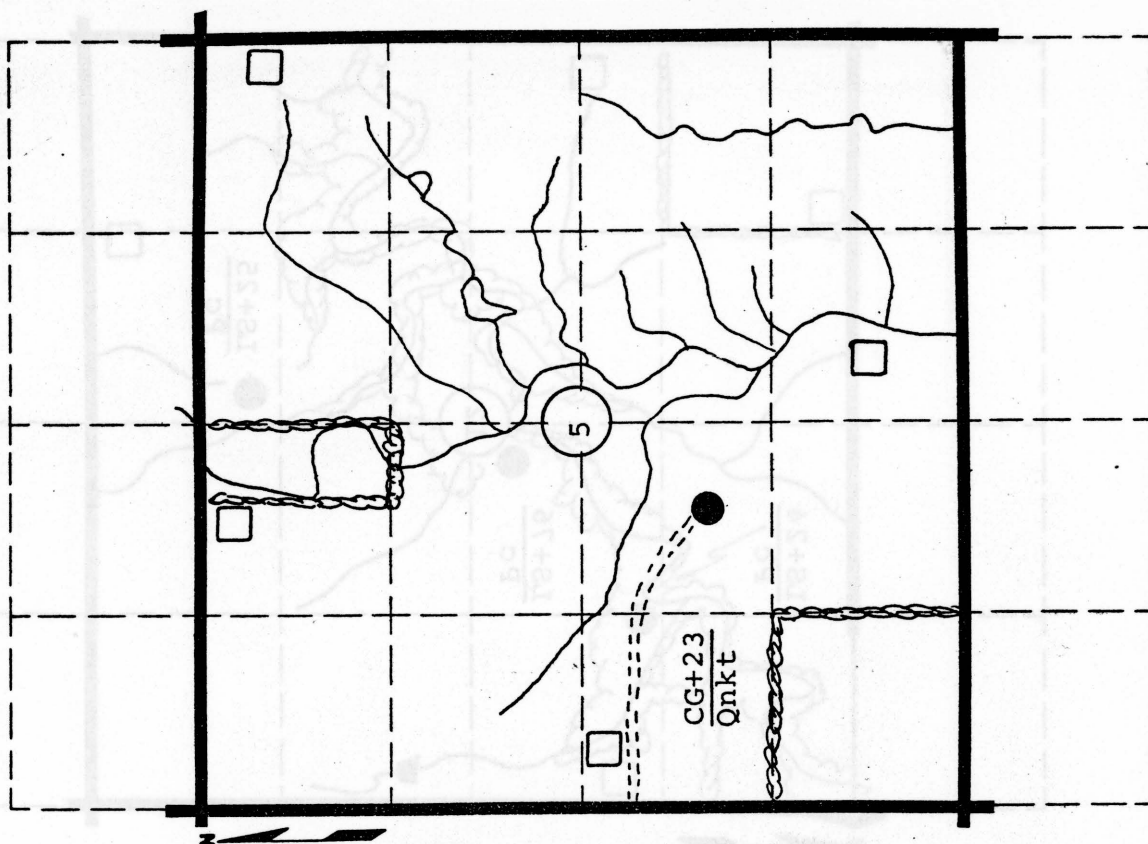
Scale: 1" = $\frac{1}{4}$ Mile

MATERIAL SURVEY REPORT

CG+23
Qnkt _____ Date November, 1968
Material Chert Gravel County Butler
Location NE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 5 Twp. 28S Range 5E
Owner E. C. Wager R. R. 2 Augusta, Kansas
name _____ address _____
Nature of Deposit Dry Accessibility Good Site Located on Plate V
Status of Site Open site; not sampled

[illegible]

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



Scale: 1" = $\frac{1}{4}$ Mile

MATERIAL SURVEY REPORT

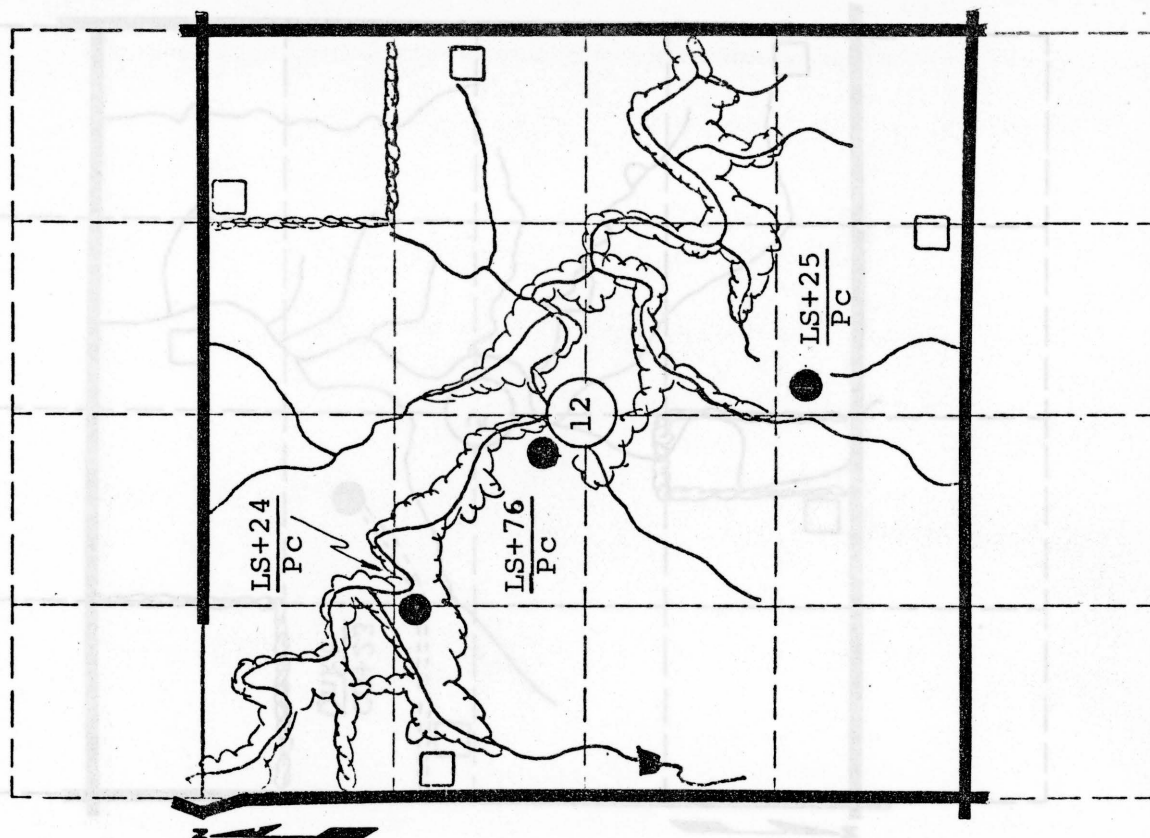
LS+24
PC
 Site No. _____ Date November, 1968
 Material Limestone County Butler
 Location SW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 12 Twp. 28S Range 3E
 Owner See Remarks name _____ address _____
 Nature of Deposit Dry accessibility Fair Site Located on Plate V
 Status of Site Open site; not sampled

EXPLORATION DATA

[illegible]

CORRELATION DATA

Geological Age Permian
Geological Source Cresswell Limestone Member
Material Similar To _____
Specific Gravity (Sat.) _____ (Dry) _____
Los Angeles Wear _____
Absorption _____ Soundness _____
Wt. Cu.Ft. _____ Str. Ratio _____
Raft Inc., % Wichita City Teachers Assn.
Remarks 1220 E. Kellogg, Wichita, Kansas



Scale: 1" = $\frac{1}{4}$ Mile

STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

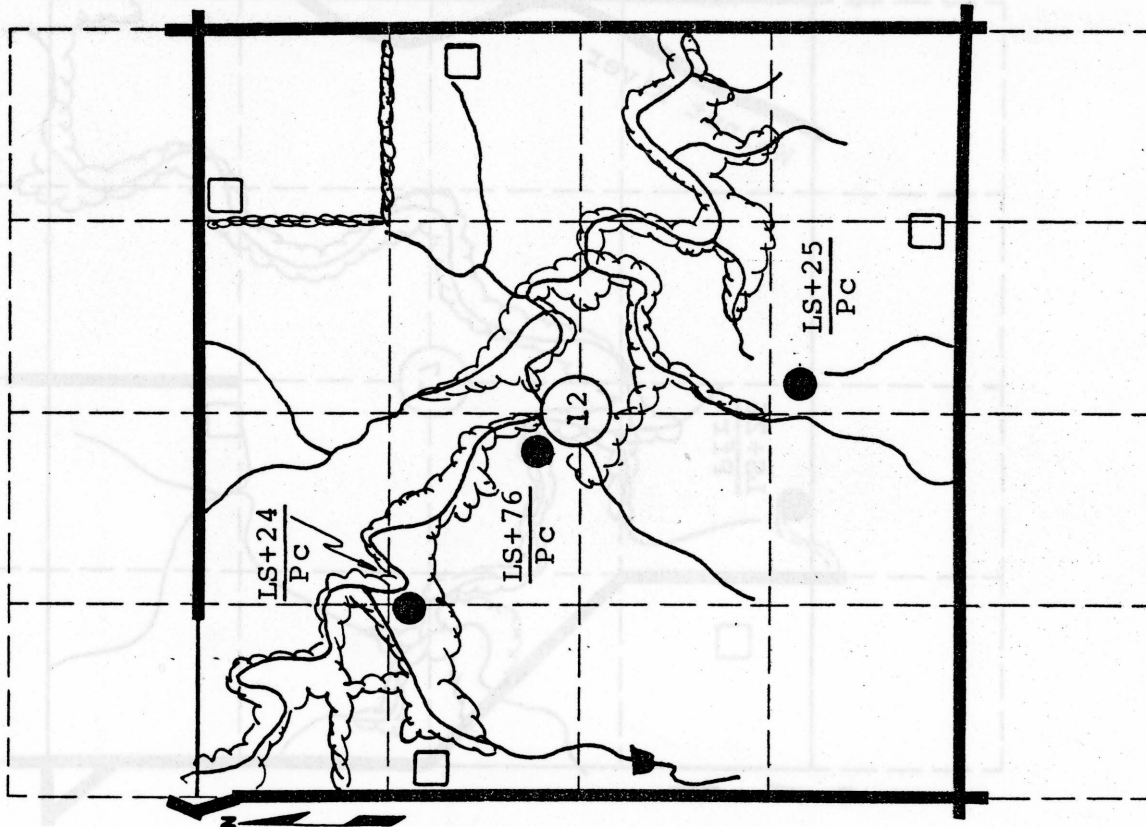
Site No. LS+25 Date November, 1968
PC
 Material Limestone County Butler
 Location SE 1/4 Sec. 12 Twp. 28S Range 3E
 Owner Boyd Gertrude, 407 S. Pershing, Wichita 8, Kansas
 name address
 Nature of Deposit Dry Accessibility Poor Site Located on Plate V
 Status of Site Open site; not sampled

EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of over-burden | Depth of Material | Percent Retained | | | | | | | | Wash 200 | G.F. | L.L. | P.I. | |
|-----------|----------------------------|----------------------|-------------------|------------------|-----|-----|---|---|----|----|----|----------|------|------|------|-----|
| | | | | 1 1/2 | 3/4 | 3/8 | 4 | 8 | 16 | 30 | 50 | | | | | 100 |
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CORRELATION DATA

Geological Age Permian
 Geological Source Cresswell Limestone Member
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Mt. Cu.Ft. _____ Str. Ratio _____
 Remarks _____



Scale: 1" = 1/4 Mile

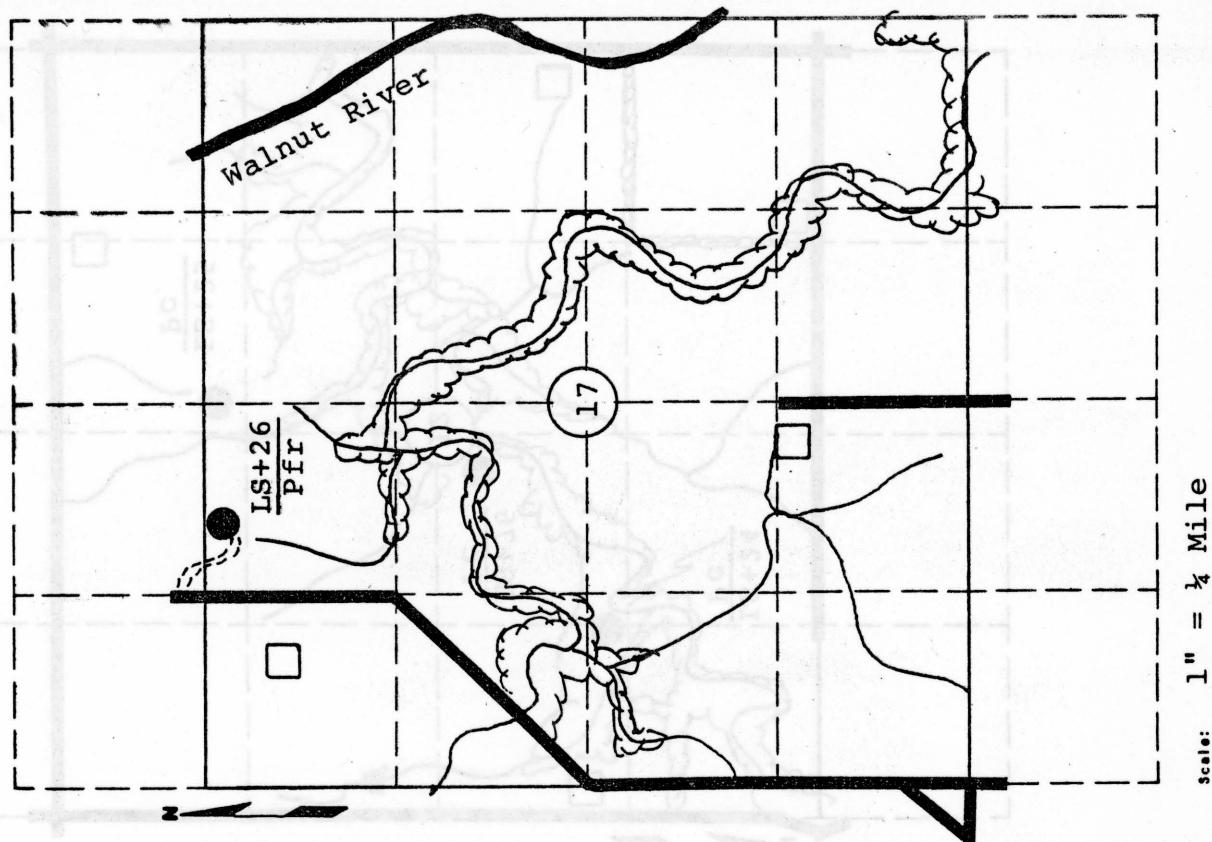
MATERIAL SURVEY REPORT

EXPLORATION DATA

[illegible]

CORRELATION DATA

Geological Age Permian
Geological Source Fort Riley Limestone Member
Material Similar To _____
Specific Gravity (Sat.) _____ (Dry) _____
Los Angeles Weir _____
Absorption _____ Soundness _____
Wt. Cu.Ft. _____ Str. Ratio _____
Remarks _____

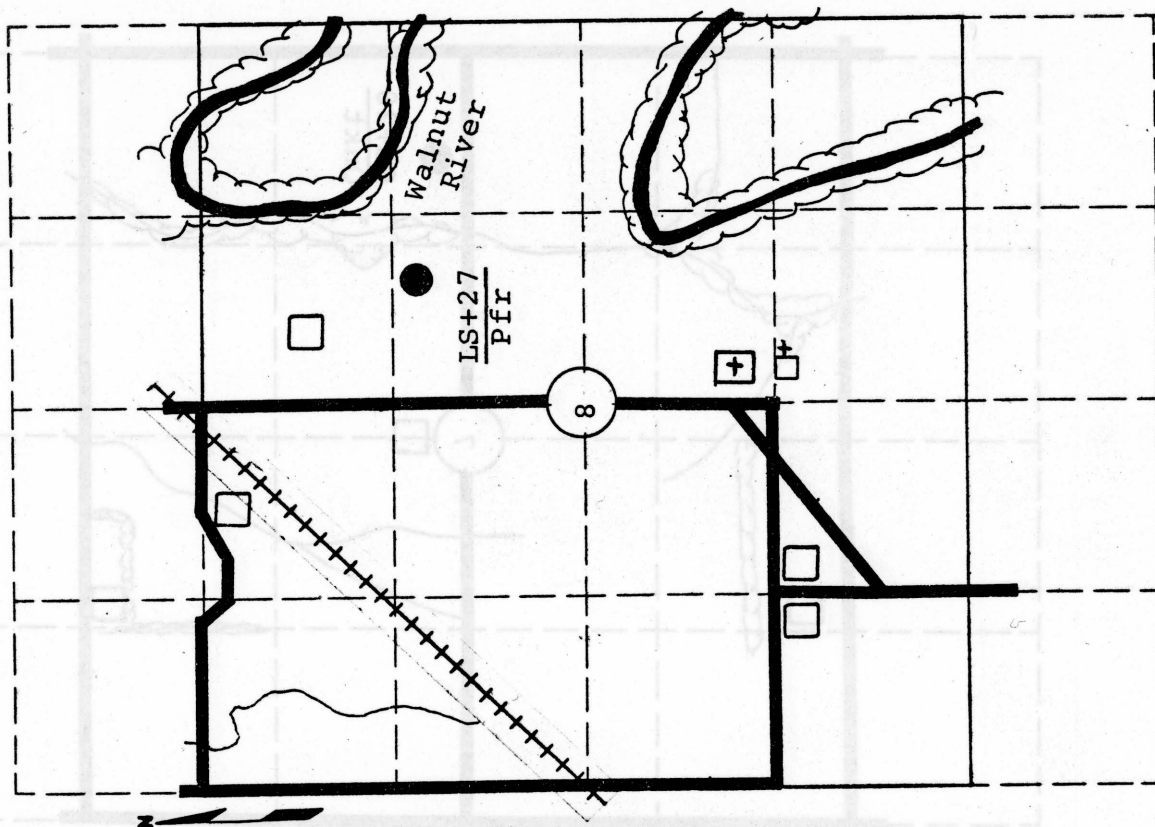


EXPLORATION DATA

[illegible]

CORRELATION DATA

Geological Age Permian
Geological Source Fort Riley Limestone Member
Material Similar To _____
Specific Gravity (Sat.) _____ (Dry) _____
Los Angeles Near _____
Absorption _____ Soundness _____
Wt. Cu.Ft. _____ Str. Batle _____
Remarks _____



Scale: 1" = $\frac{1}{4}$ Mile

MATERIAL SURVEY REPORT

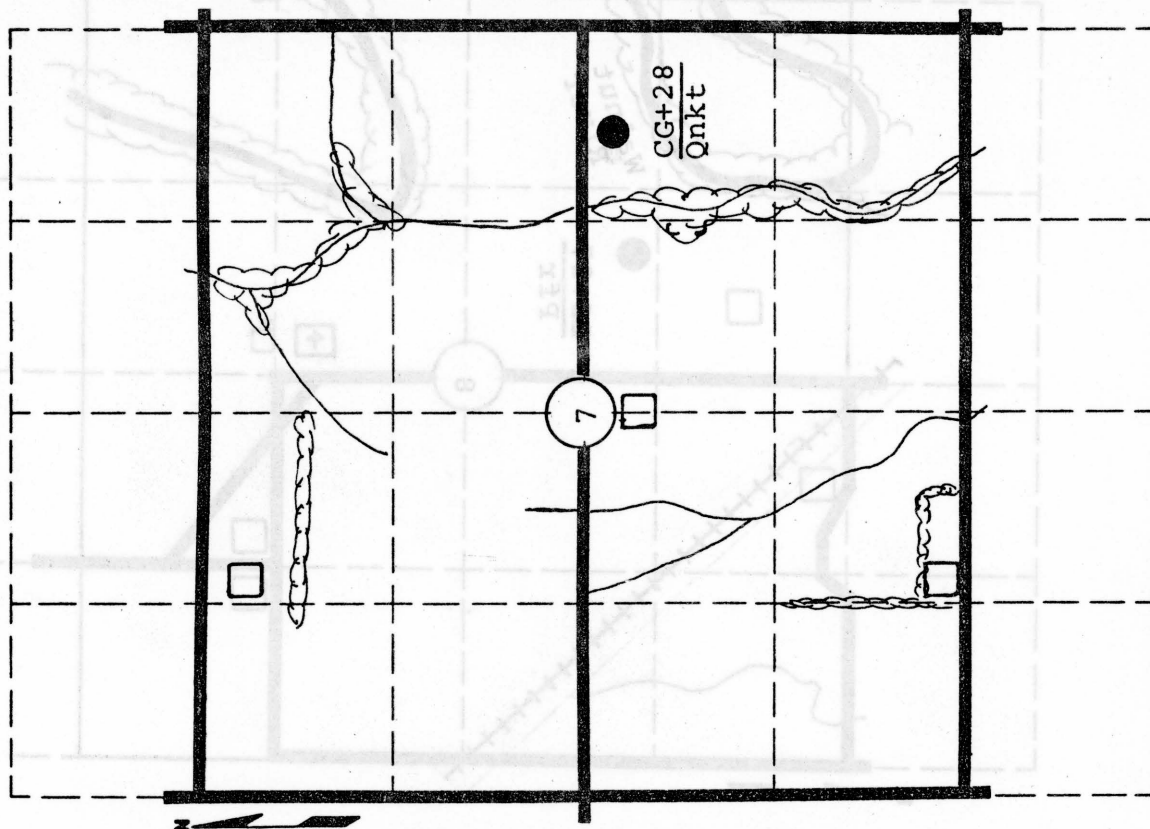
CG+28 _____ Date November, 1968
Onkt
 Material Chert Gravel County Butler
 Location NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 7 Twp. 28S Range 5E
 Owner Ernest C. Skiles, 1061 State St., Augusta, Kansas
 name _____ address _____
 Nature of Deposit Dry Accessibility Good Site Located on Plate V
 Status of Site Open site; not sampled

EXPLORATION DATA

[illegible]

CORRELATION DATA

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



Scale: 1" = $\frac{1}{4}$ Mile

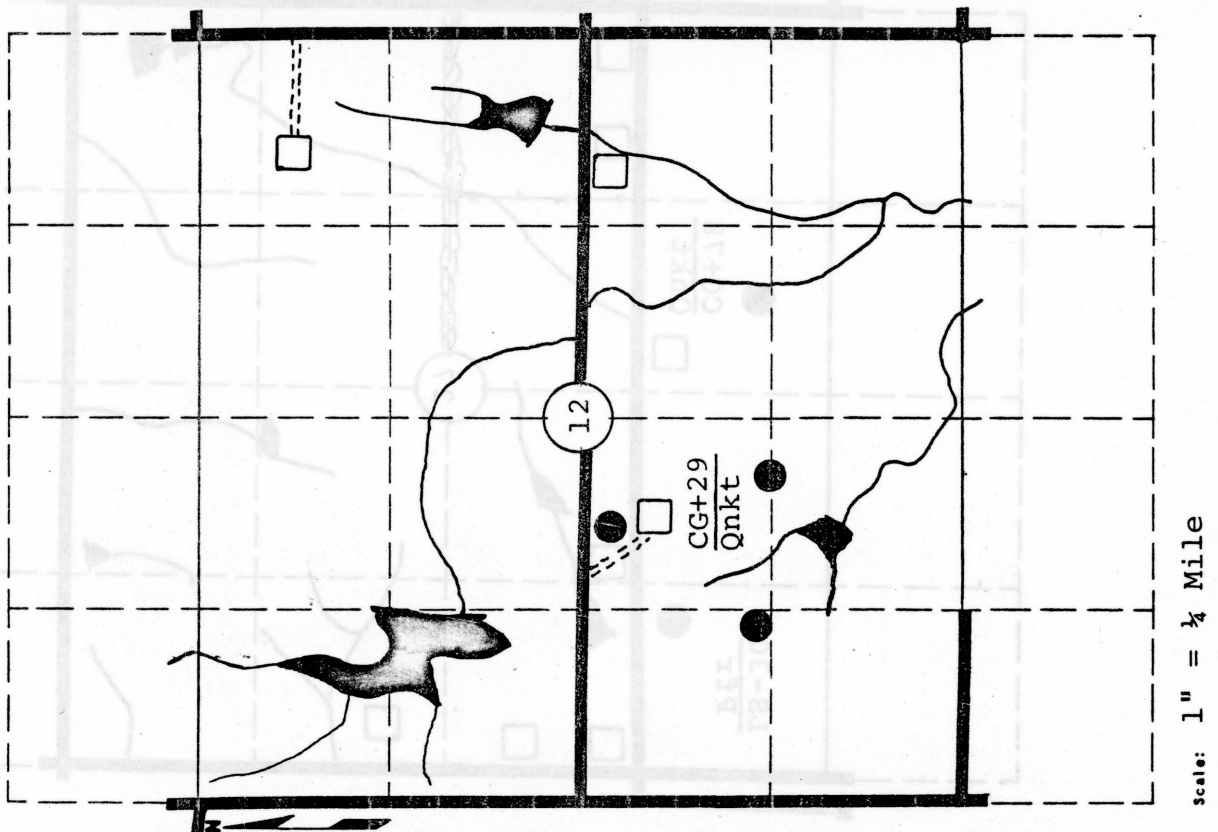
MATERIAL SURVEY REPORT

EXPLORATION DATA

[illegible]

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. Ca.Ft. _____ Str. Ratio _____
Remarks _____



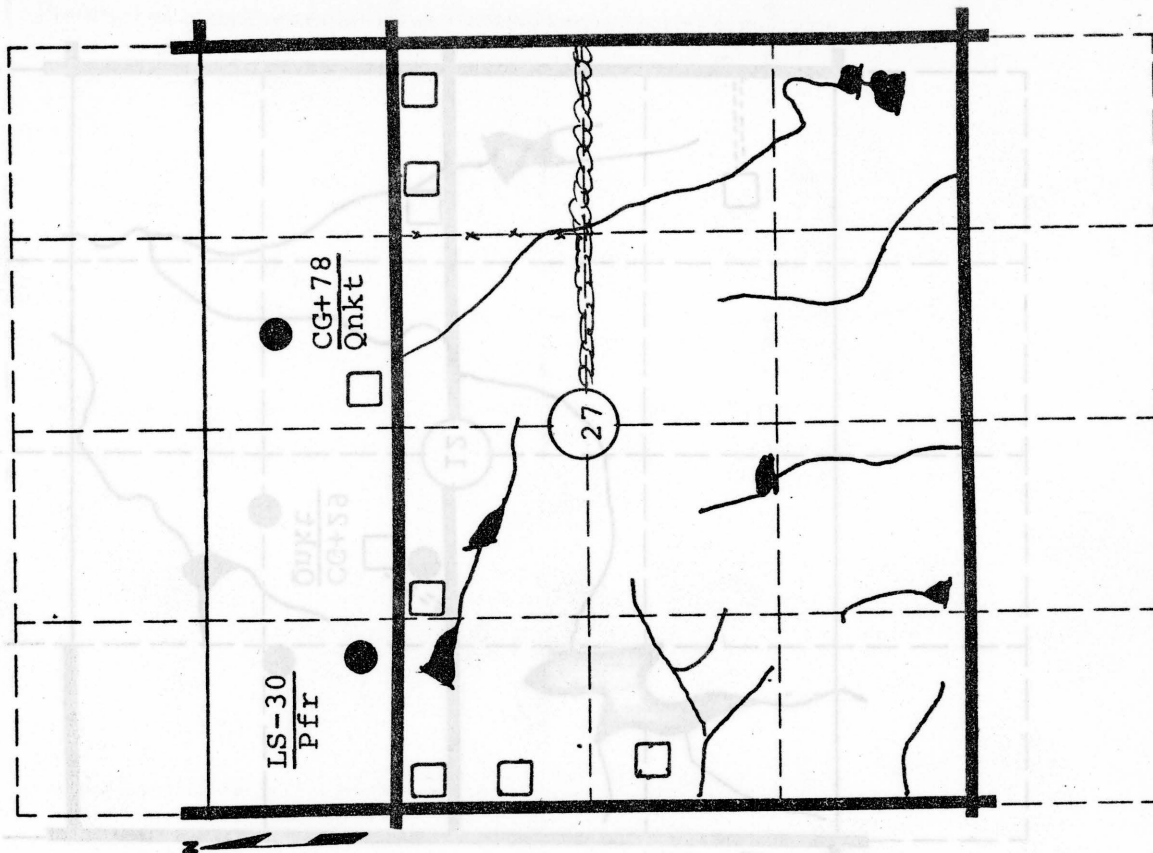
MATERIAL SURVEY REPORT

EXPLORATION DATA

[illegible]

CORRELATION DATA

Geological Age Permian
Geological Source Fort Riley Limestone Member
Material Similar To _____
Specific Gravity (Sat.) _____ (Dry) _____
Los Angeles Wear _____
Absorption _____ Soundness _____
Wt. Cu.ft. _____ Str. Ratio _____
Remarks _____



Scale: 1" = $\frac{1}{4}$ Mile

MATERIAL SURVEY REPORT

CG+31
Qnkt
Site No. _____ Date November, 1968
Material Chert Gravel County Butler
Location NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 22 Twp. 28S Range 4E
Owner Edmund Maher R. R. 3 Augusta, Kansas
name
Nature of Deposit Dry Accessibility Good Site Located on Plate VII
Status of Site Open site; not sampled

[illegible]

Geological Age Quaternary (Nebraskan-Kansan)
Geological Source Chert Gravel Terrace Deposit
Material Similar To _____

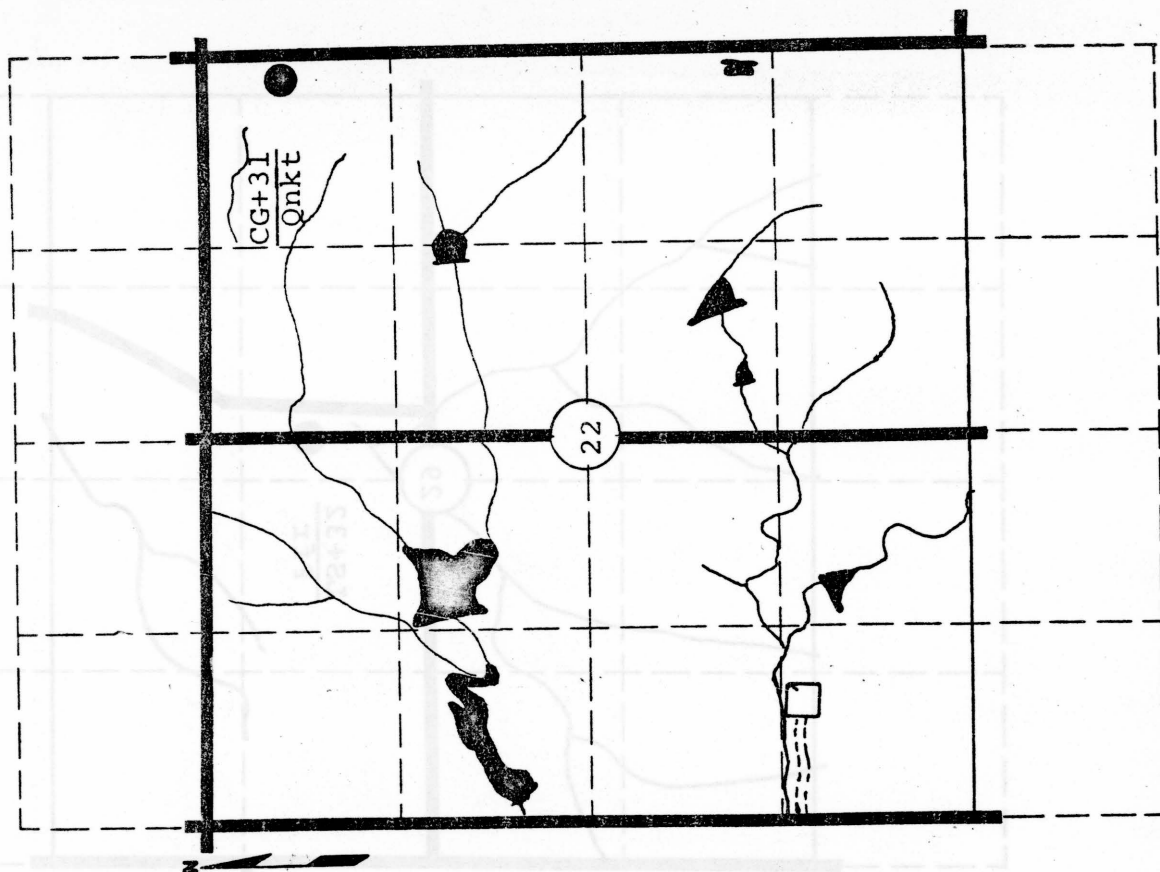
Specific Gravity (Sat.) _____ (Dry) _____

_____ JACOB COLONY 507

Absorption: _____ Soundness _____

Int. Cu. Et. _____ Str. Ratio _____

04260000



Scale: 1" = $\frac{1}{4}$ Mile

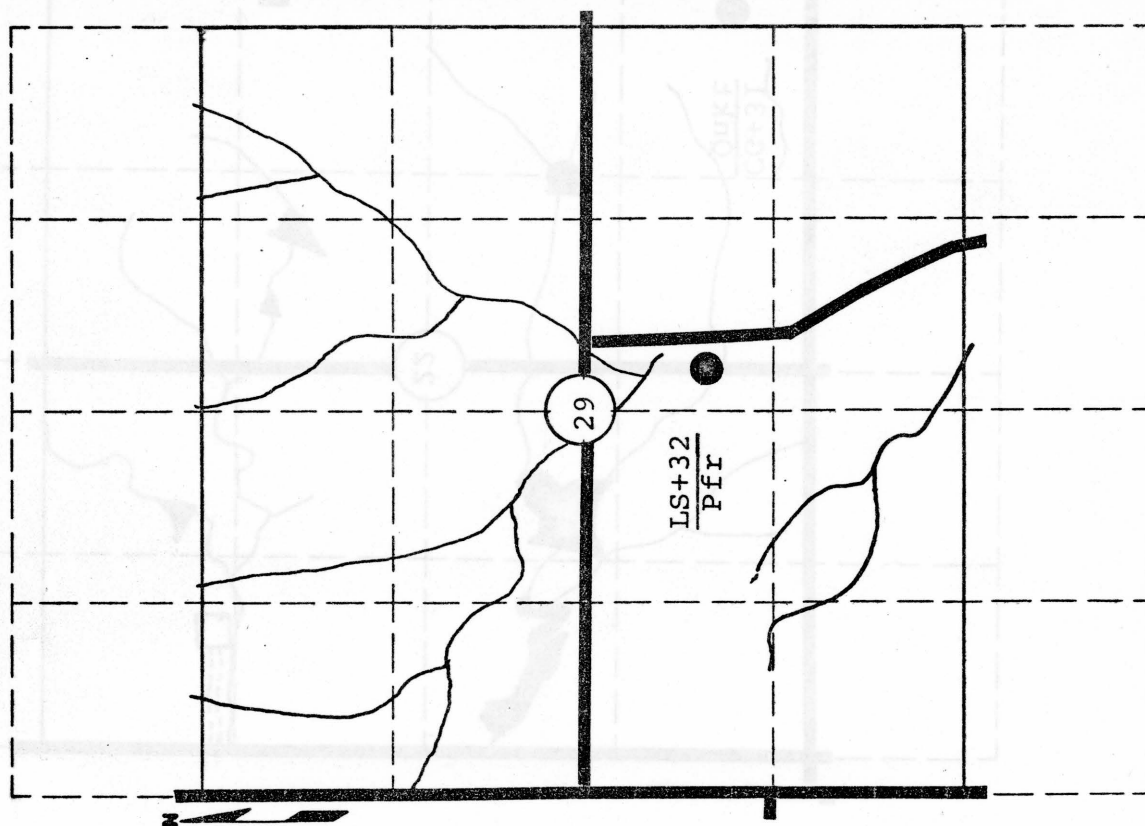
MATERIAL SURVEY REPORT

LS+32
Pfr _____ Date November, 1968
Material Limestone County Butler
Location SE $\frac{1}{4}$ Sec. 29 Twp. 28S Range 4E
Owner Bettie Duvanel, 1620 Highland Dr., Augusta, Kansas
name address
Nature of Deposit Dry Accessibility Good Site Located on Plate VII
Status of Site Open site; not sampled

[illegible]

CORRELATION DATA

Geological Age Permian
Geological Source Fort Riley Limestone Member
Material Similar To _____
Specific Gravity (Sat.) _____ (Dry) _____
Los Angeles Wear _____
Absorption _____ Soundness _____
Wt. Cu.Ft. _____ Str. Ratio _____
Remarks _____



Scale: 1" = $\frac{1}{4}$ Mile

MATERIAL SURVEY REPORT

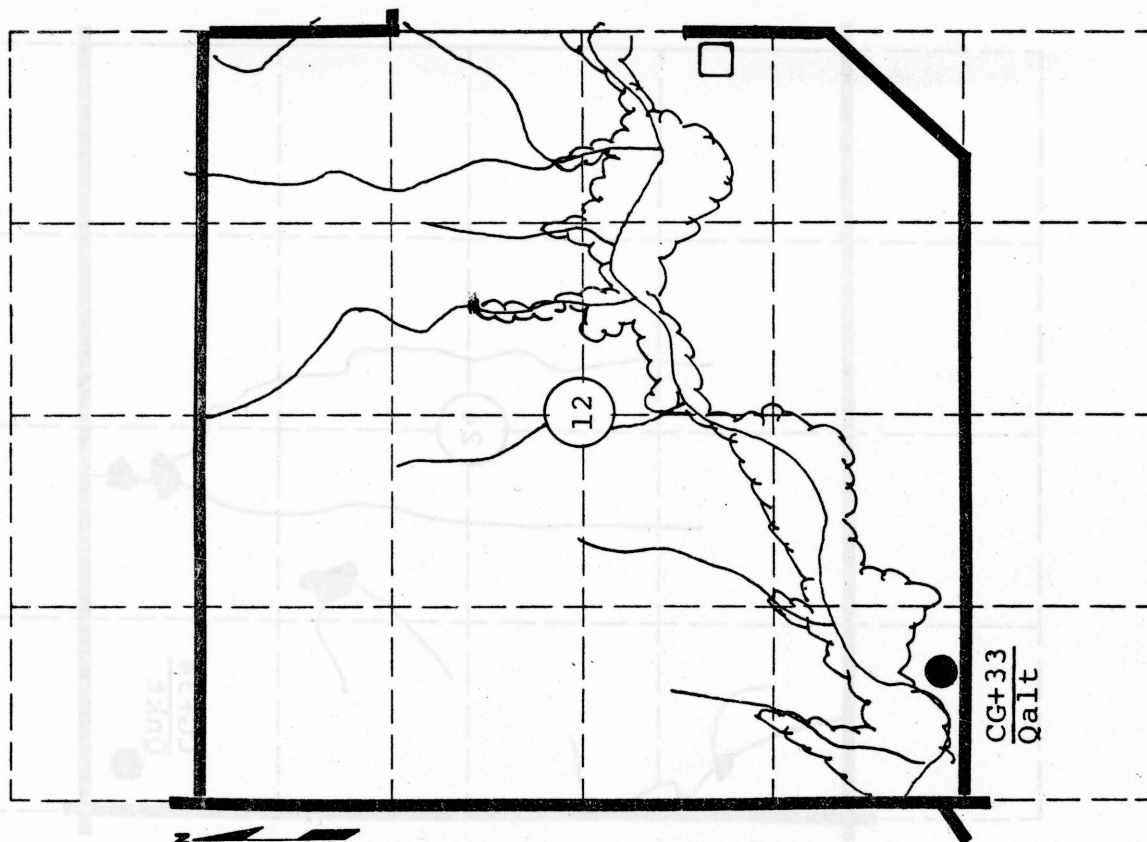
CG+33
Qalt _____ Date November, 1968
Material Chert Gravel County Butler
Location SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 12 Twp. 28S Range 7E
Owner Gladys M. Lambing Latham, Kansas
name _____ address _____
Nature of Deposit Dry Accessibility Good Site Located on Plate VI
Status of Site Open site; not sampled

EXPLORATION DATA

[illegible]

CORRELATION DATA

Geological Age Quaternary (Nebraskan-Kansan)
Geological Source Alluvium and Terrace Deposits
Material Similar To _____
Specific Gravity (Sat.) _____ (Dry) _____
Los Angeles Wear _____
Absorption _____ Soundness _____
Wt. Cu.Ft. _____ Str. Ratio _____
Remarks _____



Scale: 1" = $\frac{1}{4}$ Mile

MATERIAL SURVEY REPORT

CG+34 Onkt Date November, 1968

Material Chert Gravel County Butler

Location SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 24 Twp. 29S Range 5E

Owner Lloyd L. White name Caldwell, Kansas address

Nature of Deposit Dry Accessibility Good Site Located on Plate VII

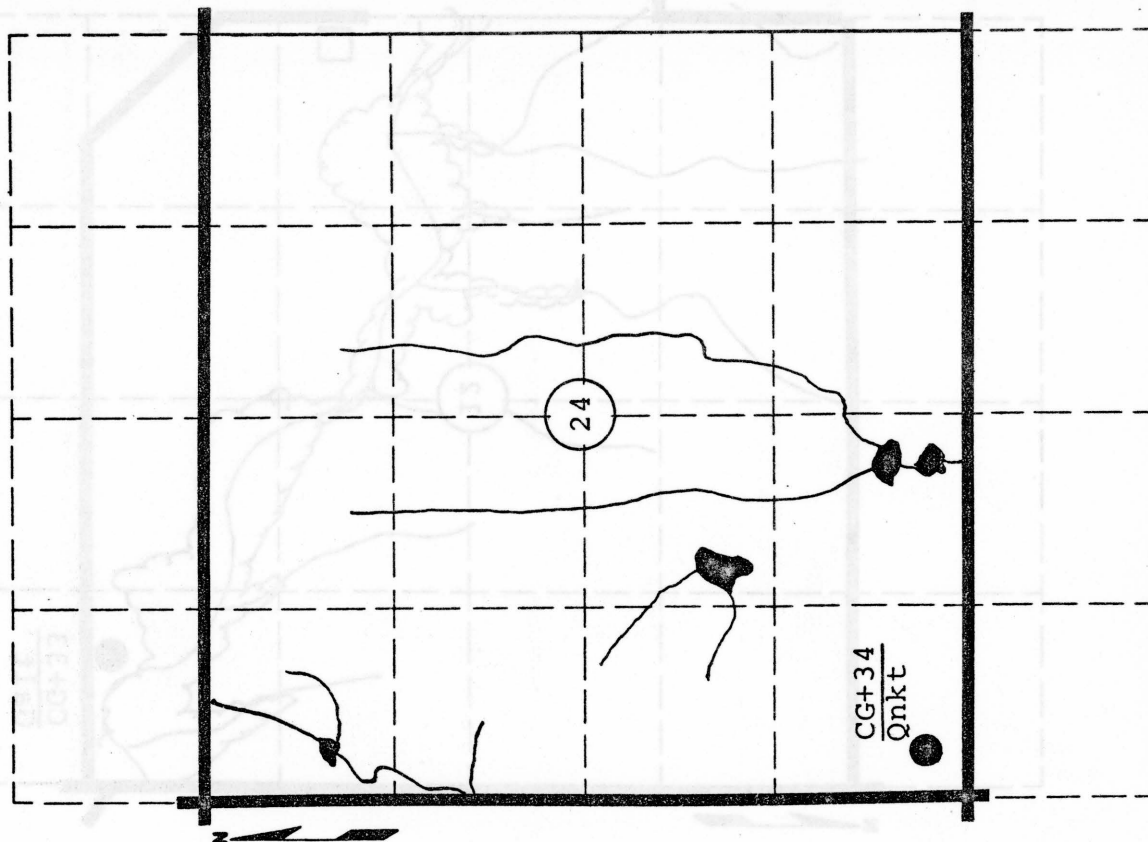
Status of Site Open site; not sampled

EXPLORATION DATA

[illegible]

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 _____



Scale: 1" = $\frac{1}{4}$ Mile

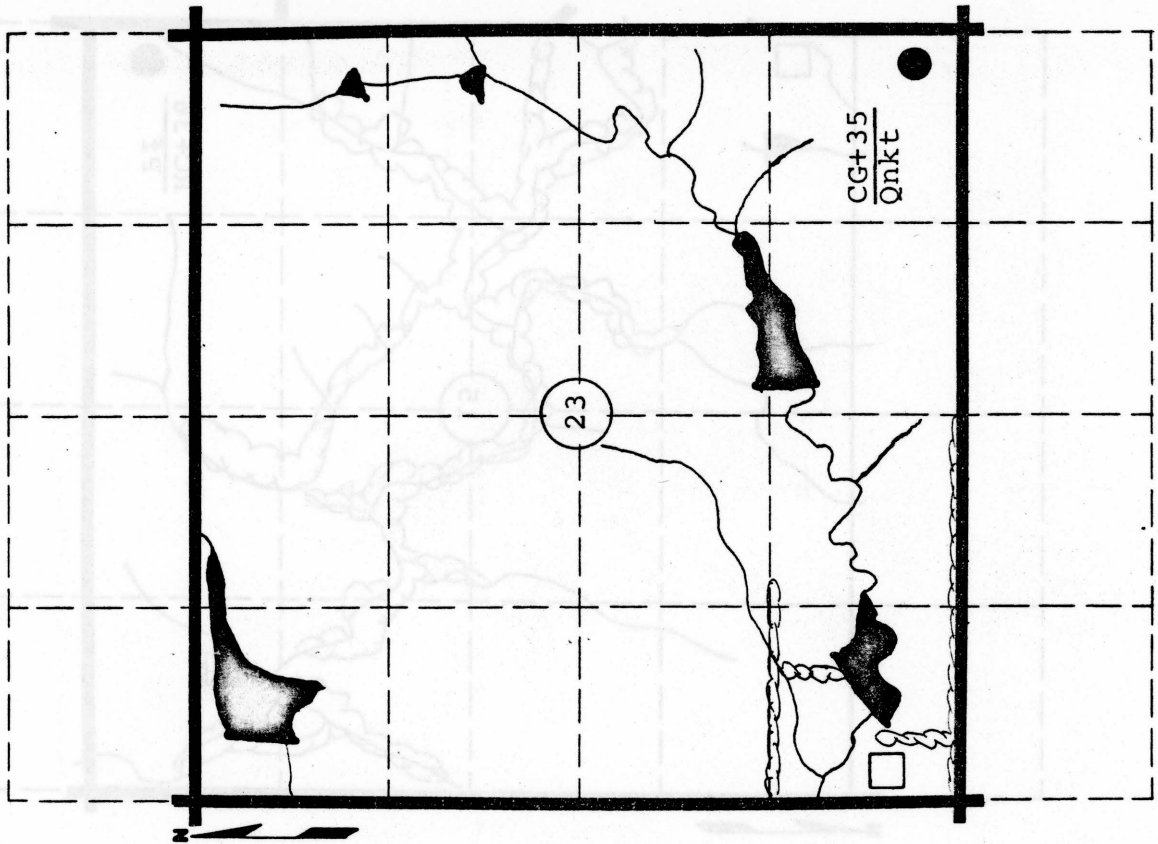
MATERIAL SURVEY REPORT

EXPLORATION DATA

[illegible]

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 _____



scale: 1" = $\frac{1}{4}$ Mile

MATERIAL SURVEY REPORT

RC+36
Pf

Site No. _____ Date November, 1968

Material Residual Chert County Butler

Location SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 15 Twp. 29S Range 6E

Owner Leland N. Frakes name _____

Mature of Deposit Dry Accessibility Good Site Located on Plate VIII

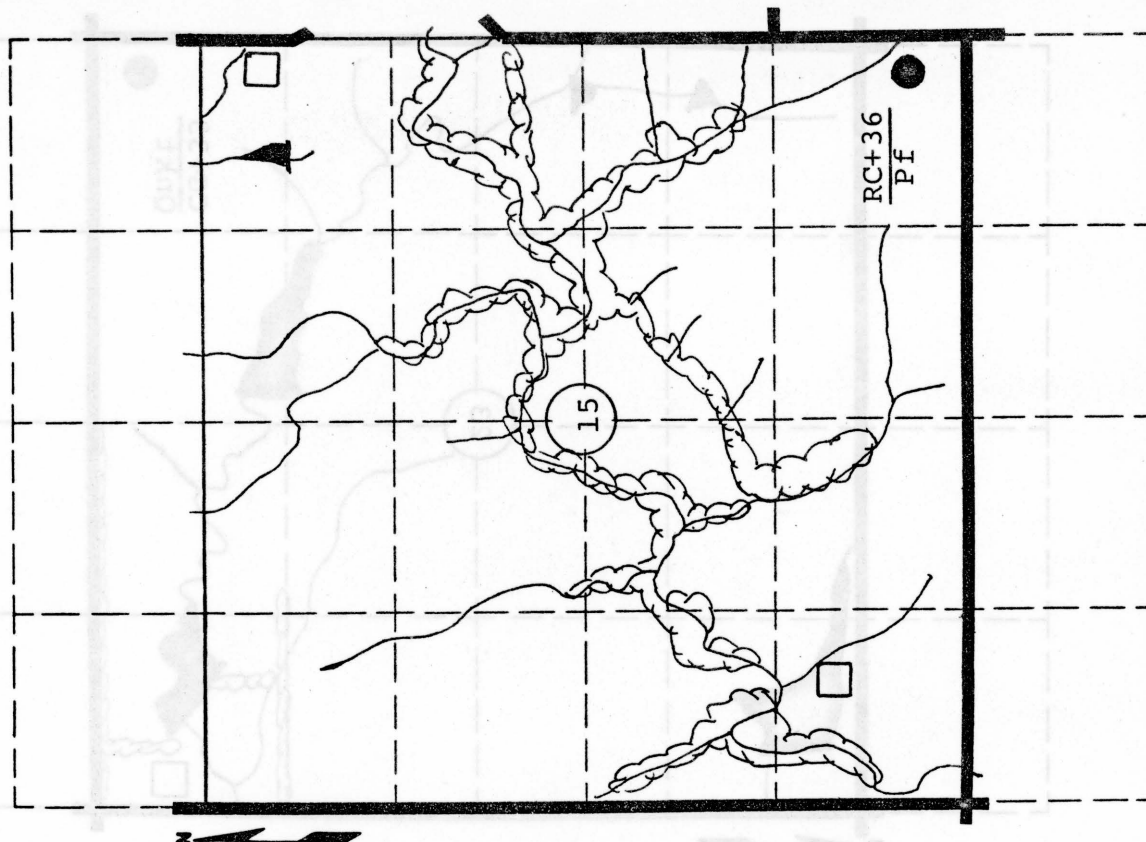
Open site; not sampled

EXPLORATION DATA

[illegible]

CORRELATION DATA

Geological Age Permian
Geological Source Florence Limestone Member
Material Similar To _____
Specific Gravity (Sat.) _____ (Dry) _____
Los Angeles Wear _____
Absorption _____ Soundness _____
Wt. Cu.-Ft. _____ Str. Ratio _____
Remarks _____



Scale: 1" = $\frac{1}{4}$ Mile

MATERIAL SURVEY REPORT

CG+37
Qnkt

Site No. _____ Date November, 1968

Material Chert Gravel County Butler

Location SW $\frac{1}{4}$ Sec. 29 Twp. 29S Range 5E

Owner Lisle J. Pottorff, R. R. 1, Douglass, Kansas address _____

Mature of Deposit Dry Accessibility Good Site Located on Plate VII

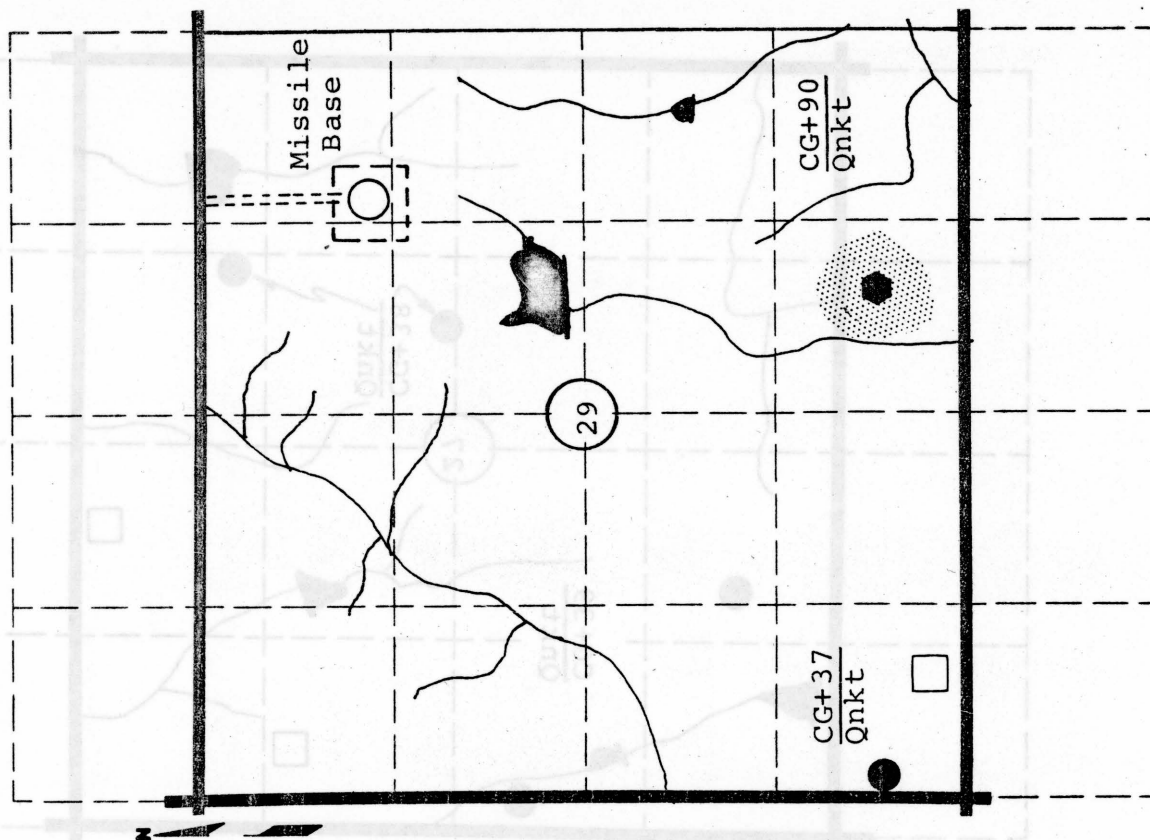
Status of Site Open site; not sampled

EXPLORATION DATA

[illegible]

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 _____



Scale: 1" = $\frac{1}{4}$ Mile

MATERIAL SURVEY REPORT

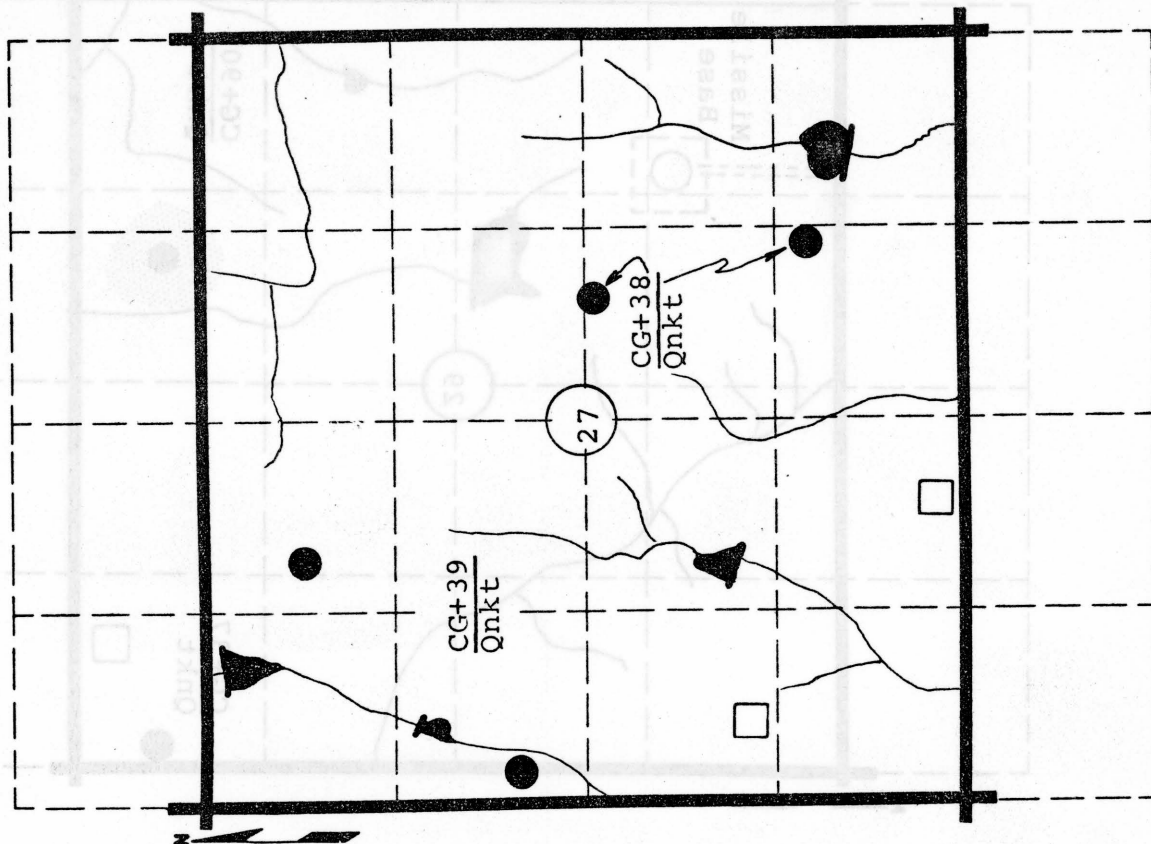
CG+38 _____ Date November, 1968
Qnkt
 Material Chert Gravel _____ County _____ Butler _____
 Location SE $\frac{1}{4}$ _____ Sec. 27 _____ Twp. 29S _____ Range 5E _____
 Owner Laura Jane Shawver, 407 State St., Augusta, Kansas
 name _____ address _____
 Nature of Deposit Dry _____ Accessibility Fair _____ Site Located on Plate VII _____
 Status of Site Open site; not sampled _____

EXPLORATION DATA

[illegible]

CORRELATION DATA

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



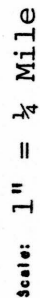
scale: 1" = $\frac{1}{4}$ Mile

MATERIAL SURVEY REPORT

EXPLORATION DATA

CORRELATION DATA

Geological Age Quaternary (Nebraskan-Kansan)
Geological Source Chert Gravel Terrace Deposit
Material Similar To _____
Specific Gravity (Sat.) _____ (dry) _____
Loc. Angeles Near _____
Absorption _____ Soundness _____
Wt. Cu. Ft. _____ Str. Ratio _____
Remarks SW $\frac{1}{4}$ NW $\frac{1}{4}$ Gary W. Gibson, Douglass, Kansas
E $\frac{1}{4}$ NW $\frac{1}{4}$ Laura Jane Oil Co., 407 State St.
Augusta, Kansas



MATERIAL SURVEY REPORT

CG#40
Qnkt _____ Date November, 1968

Material Chert Gravel County Butler

SE $\frac{1}{4}$ _____ Sec. 21 Twp. 29S Range 4E

Location Blanche Young

Owner Douglass, Kansas address _____

Nature of Deposit Dry Accessibility Poor Site Located on Plate VII

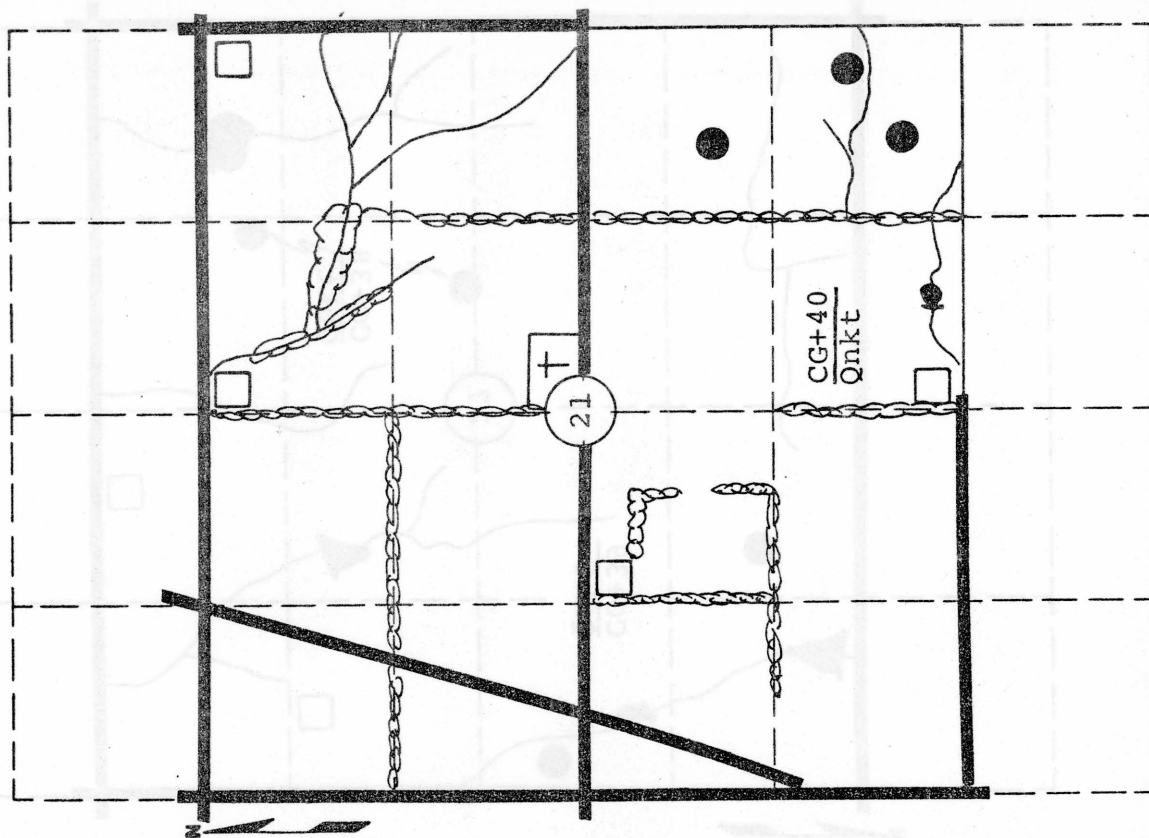
Status of Site Open site; not sampled

EXPLORATION DATA

[illegible]

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 _____

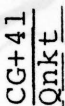


Scale: 1" = $\frac{1}{4}$ Mile

$$\frac{CG+41}{Qnkt}$$
Percent Retained

CORRELATION DATA

Quaternary (Nebraskan-Kansan)



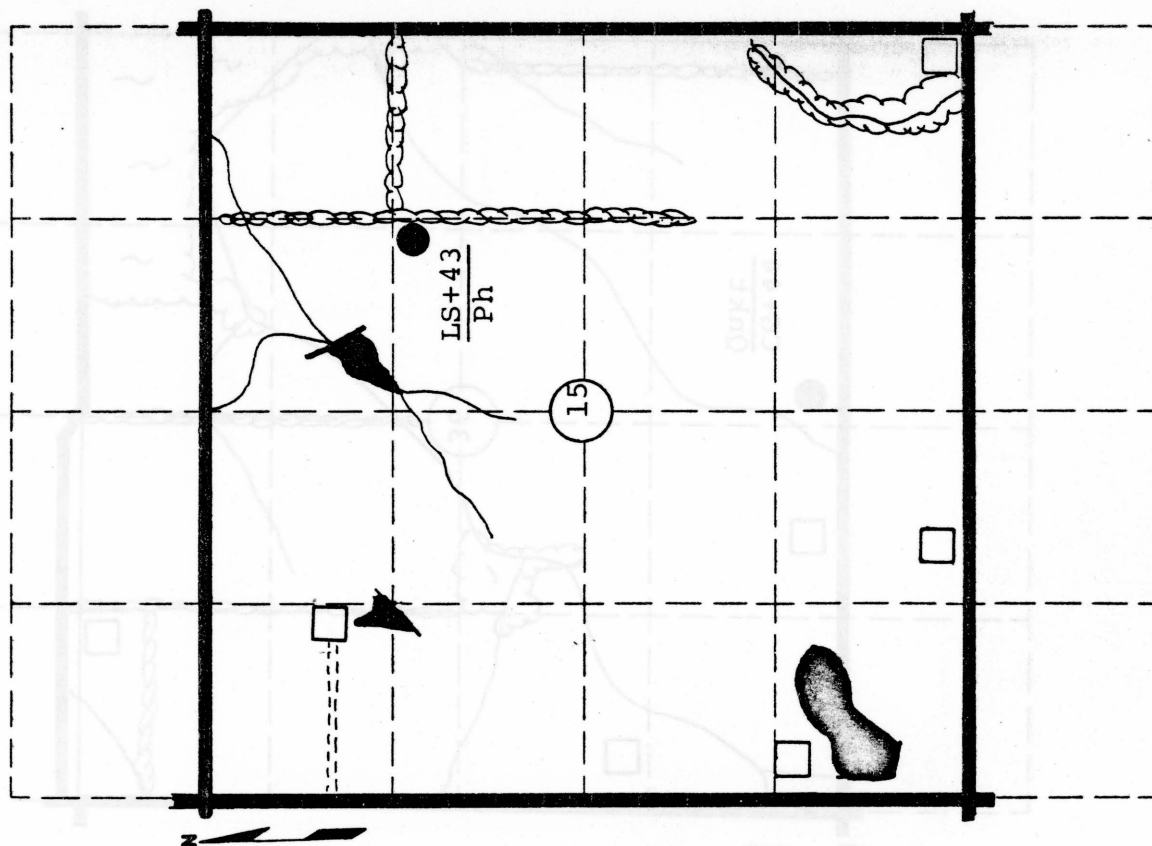
Scale: 1" = $\frac{1}{4}$ Mile

EXPLORATION DATA

[illegible]

CORRELATION DATA

Geological Age Permian
Geological Source Herington Limestone Member
Material Similar To _____
Specific Gravity (Sat.) _____ (Dry) _____
Loc. Los Angeles Near _____
Absorption _____ Soundness _____
Wt. Cu.Ft. _____ Str. Ratio _____
Remarks O. G. High, & Nellie E. High
4506 Mt. Vernon Rd., Wichita 17, Kansas



Scale: 1" = $\frac{1}{4}$ Mile

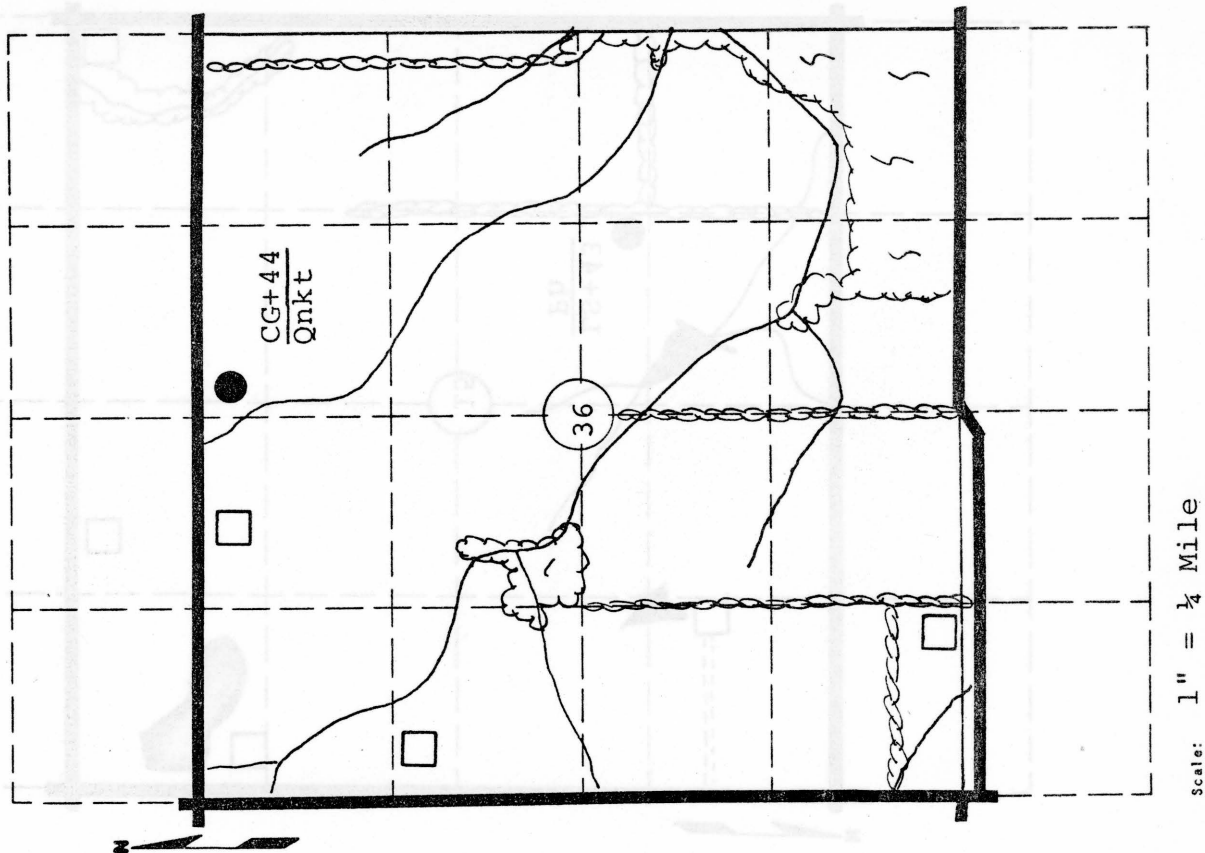
address

EXPLORATION DATA

[illegible]

CORRELATION DATA

Quaternary (Nebraskan-Kansan)
Geological Age
Chert Gravel Terrace Deposit
Geological Source
Material Similar To
Specific Gravity (Sat.) (Dry)
Los Angeles Wear
Absorption Soundness
Wt. Cu.Ft. Str. Ratio
Remarks L. I. Hodges, & Viola Faye Dodson
8924 Maple Wichita, Kansas



STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

CG+45
Qnkt

Site No. _____ Date November, 1968

Material Chert Gravel County Butler

Location SW 1/4 SE 1/4 Sec. 25 Twp. 29S Range 3E

Owner Roberta B. Galbraith, 260 S. Florence, Wichita, Kan.
Address

Nature of Deposit Dry Accessibility Good Site Located on Plate VII

Status of Site Open site; not sampled

EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of over-Burden | Depth of Material | Percent Retained | | | | | | | | Wash 200 | G.F. | L.L. | P.I. |
|-----------|----------------------------|----------------------|-------------------|------------------|-----|-----|---|---|----|----|----|----------|------|------|------|
| | | | | 1 1/2 | 3/4 | 3/8 | 4 | 8 | 16 | 30 | 50 | | | | |
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CORRELATION DATA

Geological Age Quaternary (Nebraskan-Kansan)

Geological Source Chert Gravel Terrace Deposit

Material Similar To _____

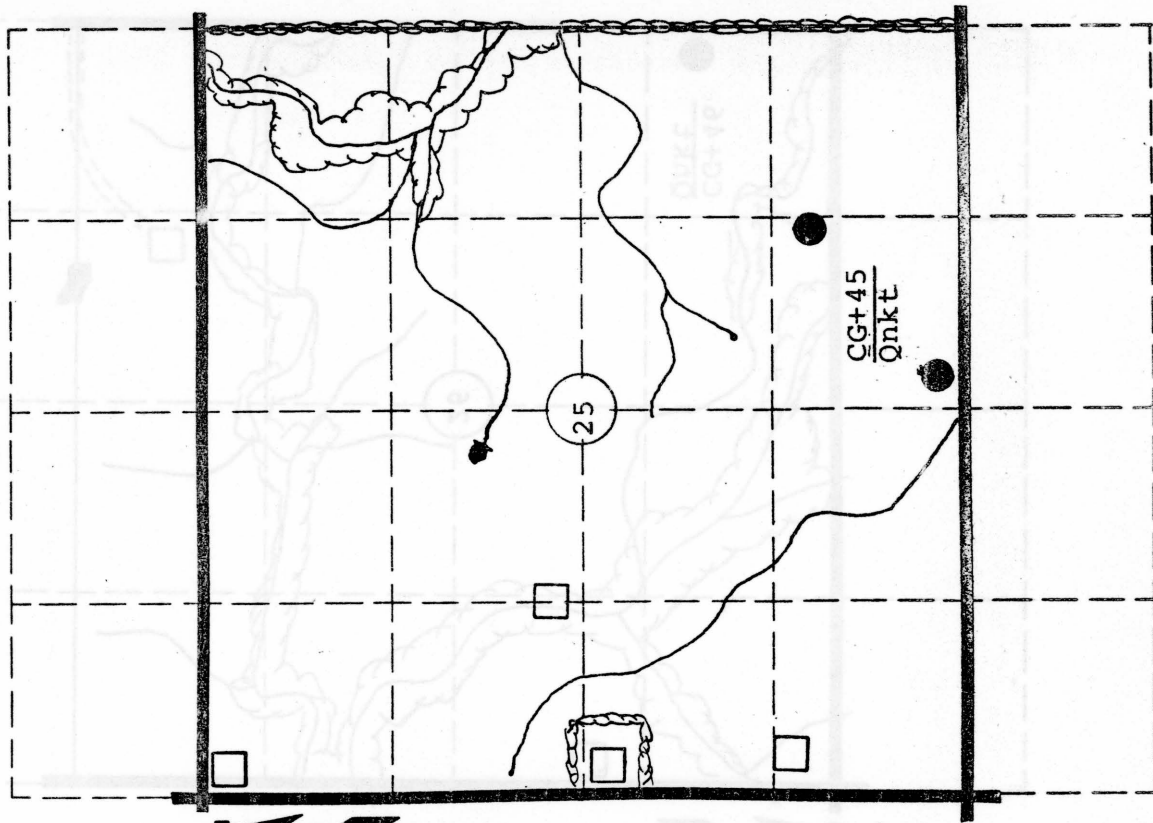
Specific Gravity (Sat.) _____ (Dry) _____

Los Angeles Wear _____

Absorption _____ Soundness _____

Mo. Co. No. _____ Str. Ratio _____

Remarks _____



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

CG+46
Qnkt Date November, 1968

Material Chert Gravel County Butler

Location NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 26 Twp. 26S Range 7E

Owner S. I. Stewart Name Rosalia, Kansas Address _____

Nature of Deposit Dry Accessibility Good Site Located on Plate VI

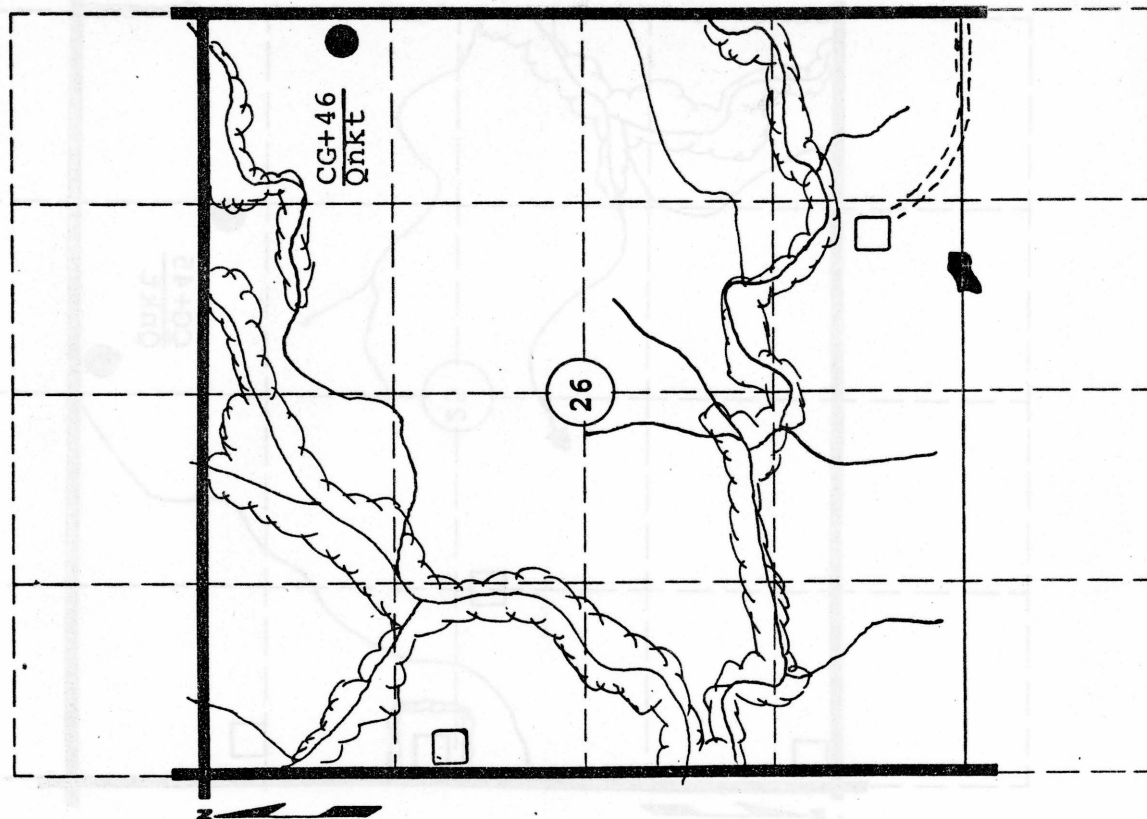
Status of Site Open site; not sampled

EXPLORATION DATA

[illegible]

CORRELATION DATA

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



Scale: 1" = $\frac{1}{4}$ Mile

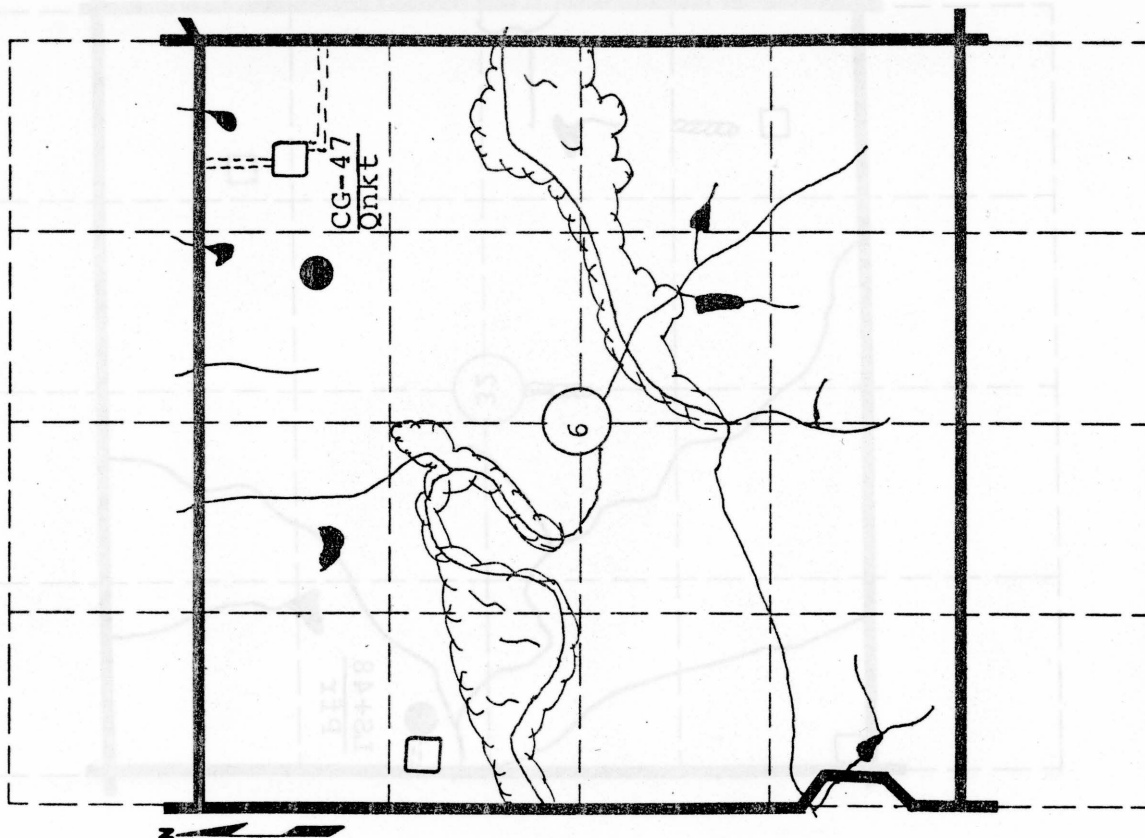
MATERIAL SURVEY REPORT

EXPLORATION DATA

[illegible]

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 _____



Scale: 1" = $\frac{1}{4}$ Mile

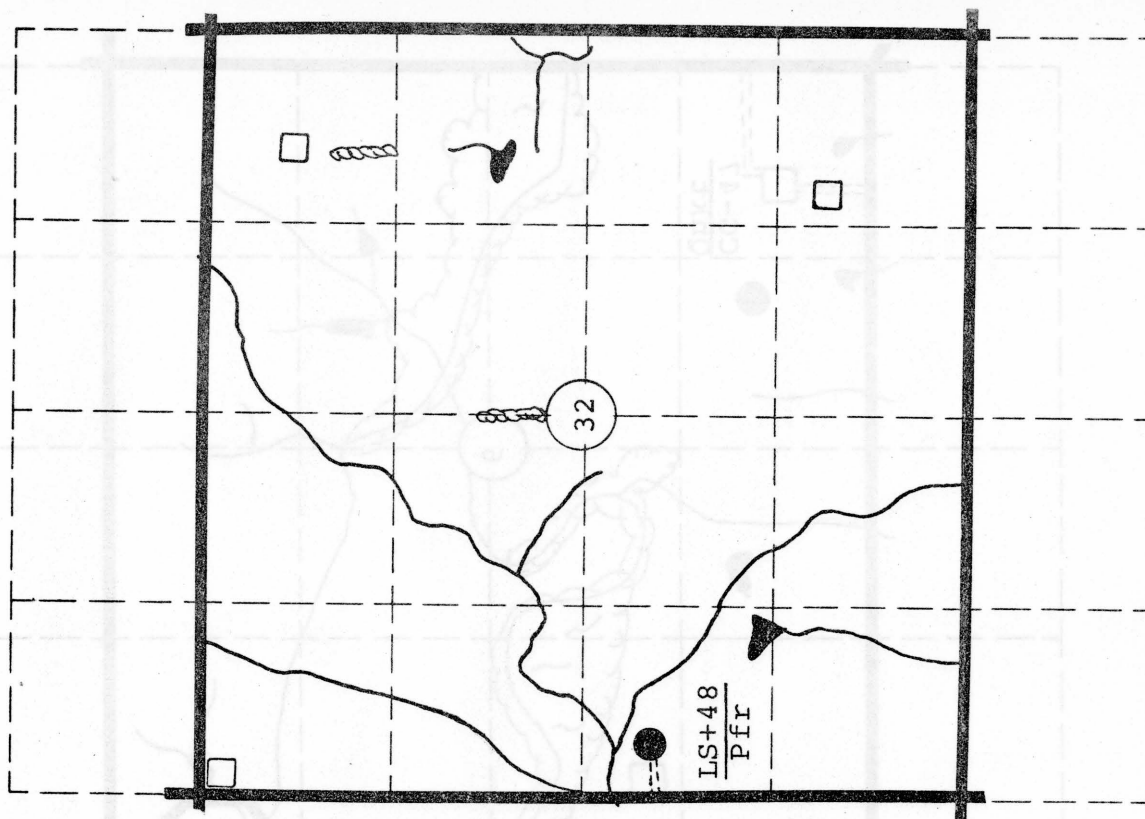
File No. _____ Date _____
 Material _____ County _____
 Location _____ NW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 32 Twp. 28S Range 6E
 Owner _____
 Name _____
 Nature of Deposit _____ Dry _____ accessibility _____ Good _____
 Status of Site _____ Open site; not sampled _____
 VIII

EXPLORATION DATA

[illegible]

CORRELATION DATA

Geological Age Permian
Geological Source Fort Riley Limestone Member
Material Similar To _____
Specific Gravity (Sat.) _____ (Dry) _____
Los Angeles Wear _____
Absorption _____ Soundness _____
wt. Cu.Ft. _____ Str. Ratio _____
Remarks _____



Scale: 1" = $\frac{1}{4}$ Mile

APPENDIX II

The following site data forms are designated as "open sites; sampled." The sites described herein are depicted on the county materials maps as a "■".

LEGEND

----- Trail or lane

———— Road

+ + + + + Railroad

~~~~~ Hedge or trees

~~~~~ Major streams

~~~~~ Intermittent streams

~~~~~ Pond or lake

● Open materials site:
sampled

○ Center of section

□ Farm site

⊕ Cemetery

⚡ School

⛔ Church

▣ Town or city

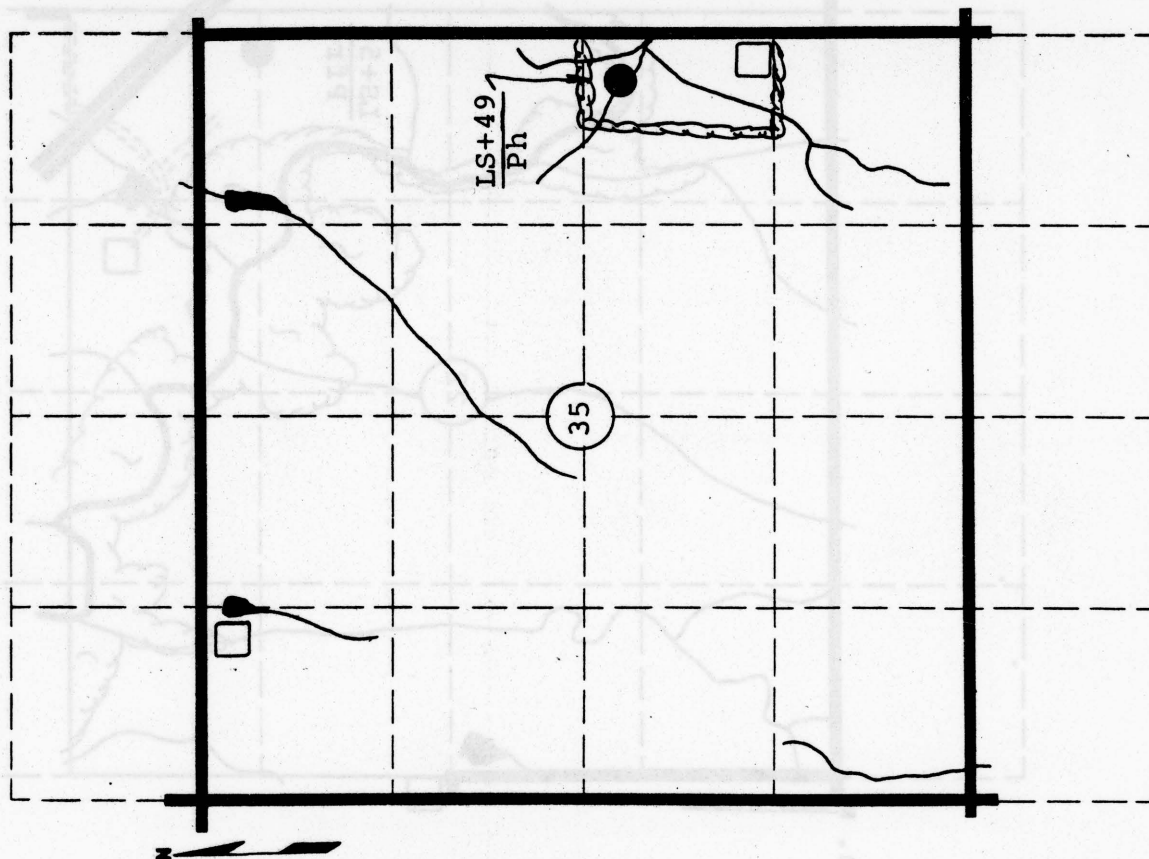
LS+49
Ph
 Site No. _____ Date November, 1968
 Material Limestone County Butler
 Location NE 1/4 Sec. 35 Twp. 23S Range 3E
 Owner Charles Stephens
name
 address
 Whitewater, Kansas
 Nature of Deposit Dry accessibility Good Site Located on Plate I
 Status of Site Open site; sampled

EXPLORATION DATA

[illegible]

CORRELATION DATA

Geological Age Permian
Geological Source Herington Limestone Member
Material Similar To Material reported under SHC Lab. No.
61814
Specific Gravity (Sat.) 2.56 (Dry) _____
Los Angeles Wear 48.2 (A)
Absorption 4.17 Soundness 0.93
Wt. Cu. Ft. _____ Str. Ratio _____
Remarks For other test information on this site
refer to figure 16 in text.



Scale: 1" = $\frac{1}{4}$ Mile

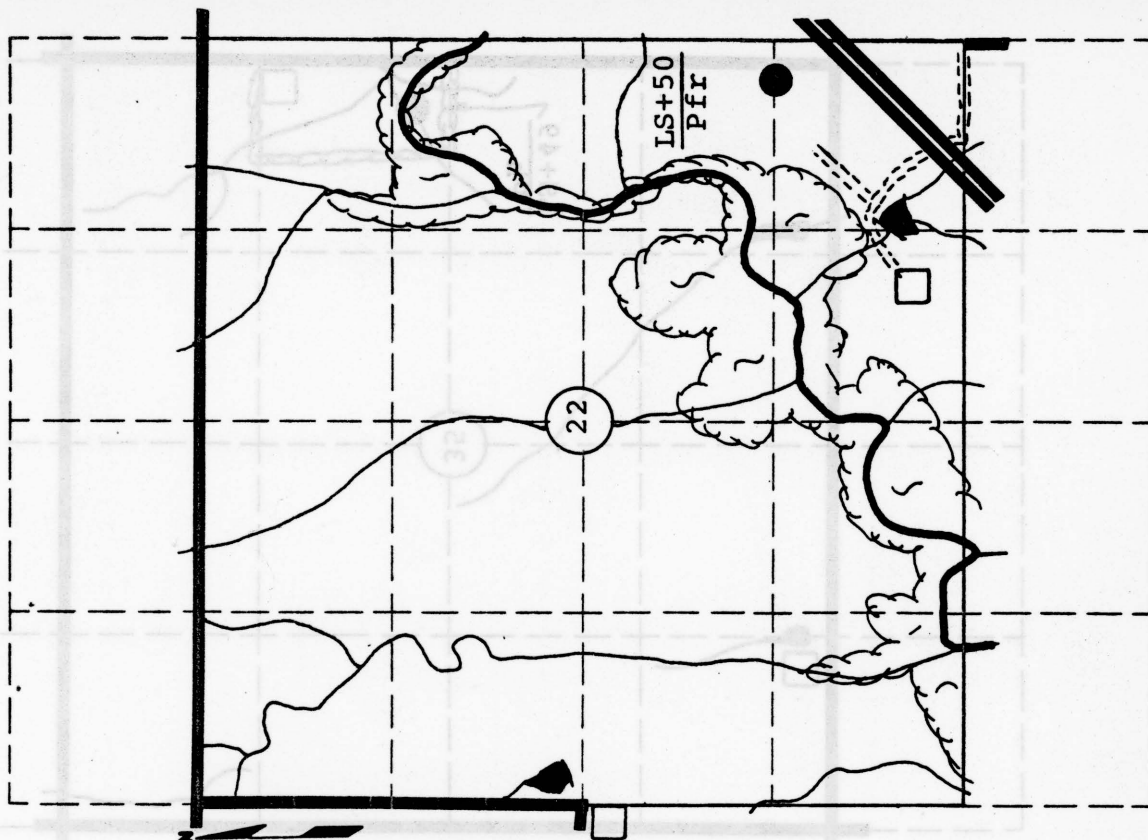
LS+50
Pfr _____
Site No. _____ Date November, 1968
Material Limestone _____
County Butler
Location SE $\frac{1}{4}$ _____
Twp. 24S Range 6E
Owner Bernice Wiley et al., 400 S. Denver, El Dorado, Kan.
name _____
Mature of Deposit Dry _____
Accessibility Poor _____
II
Site Located on Plate _____
Status of Site Open site; sampled _____

EXPLORATION DATA

[illegible]

CORRELATION DATA

Geological Age Permian
Geological Source Fort Riley Limestone Member
Material Similar To Material reported under SHC Lab. No.
12506
Specific Gravity (Sat.) 2.43 (dry) 2.28
Los Angeles Wear 42.7 (B)
Absorption 6.39 Soundness 0.84
Net. Cu.ft. Str. Ratio
Remarks For other test information on this site
refer to figure 16 in text.



Scale: 1" = $\frac{1}{4}$ Mile

MATERIAL SURVEY REPORT

LS+51
Ph

Site No. _____ Date November, 1968

Material Limestone County Butler

SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 30 Twp. 24S Range 4E

Location _____

Owner Rex C. Graham Box 66 Peabody, Kansas
name address

Mature of Deposit Dry Accessibility Good Site Located on-Plate I

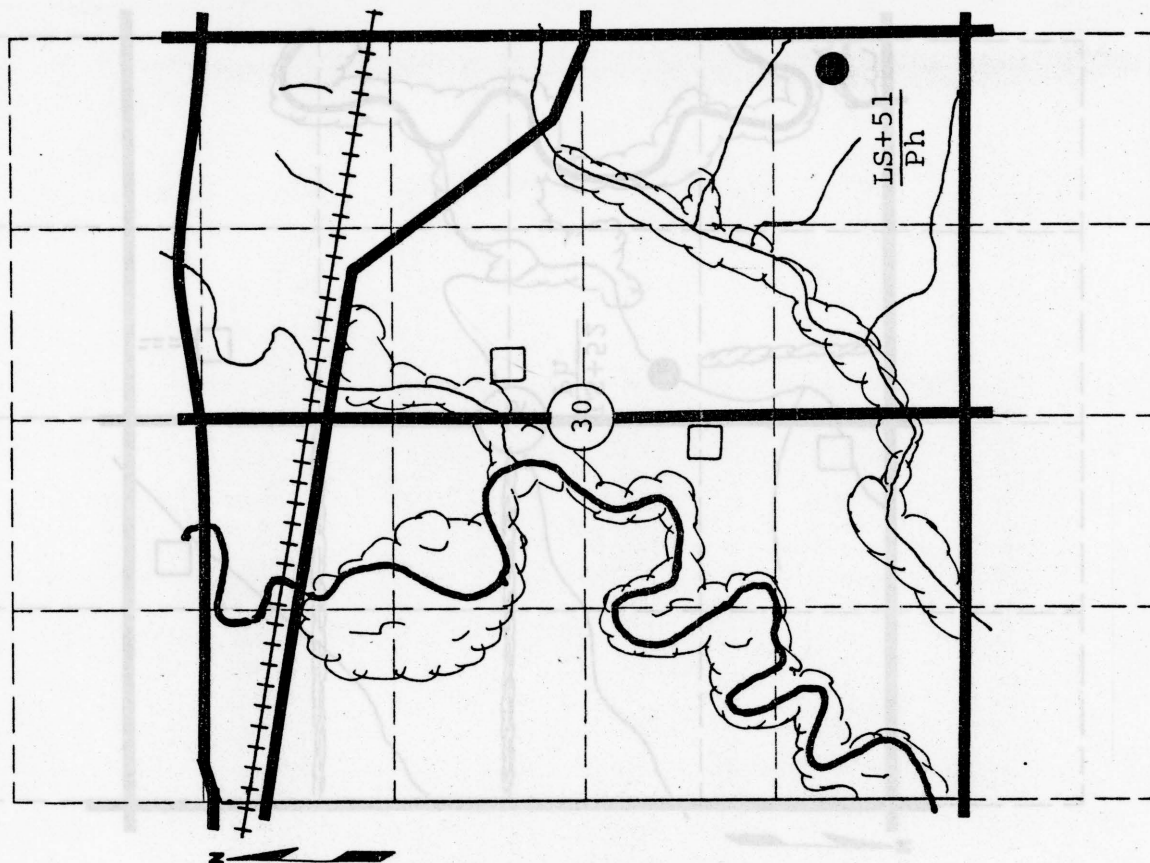
Status of Site _____

EXPLORATION DATA

[illegible]

CORRELATION DATA

Geological Age Permian
Geological Source Herington Limestone Member
Material Similar To Material reported under SHC Lab.
No. 81664
Specific Gravity (Sat.) 2.44 (Dry) _____
Los Angeles Wear 40.2 (B)
Absorption 4.56 Soundness 0.87
Wt. Cu.ft. _____ Str. Ratio _____
Remarks _____



1" = $\frac{1}{4}$ Mile

MATERIAL SURVEY REPORT

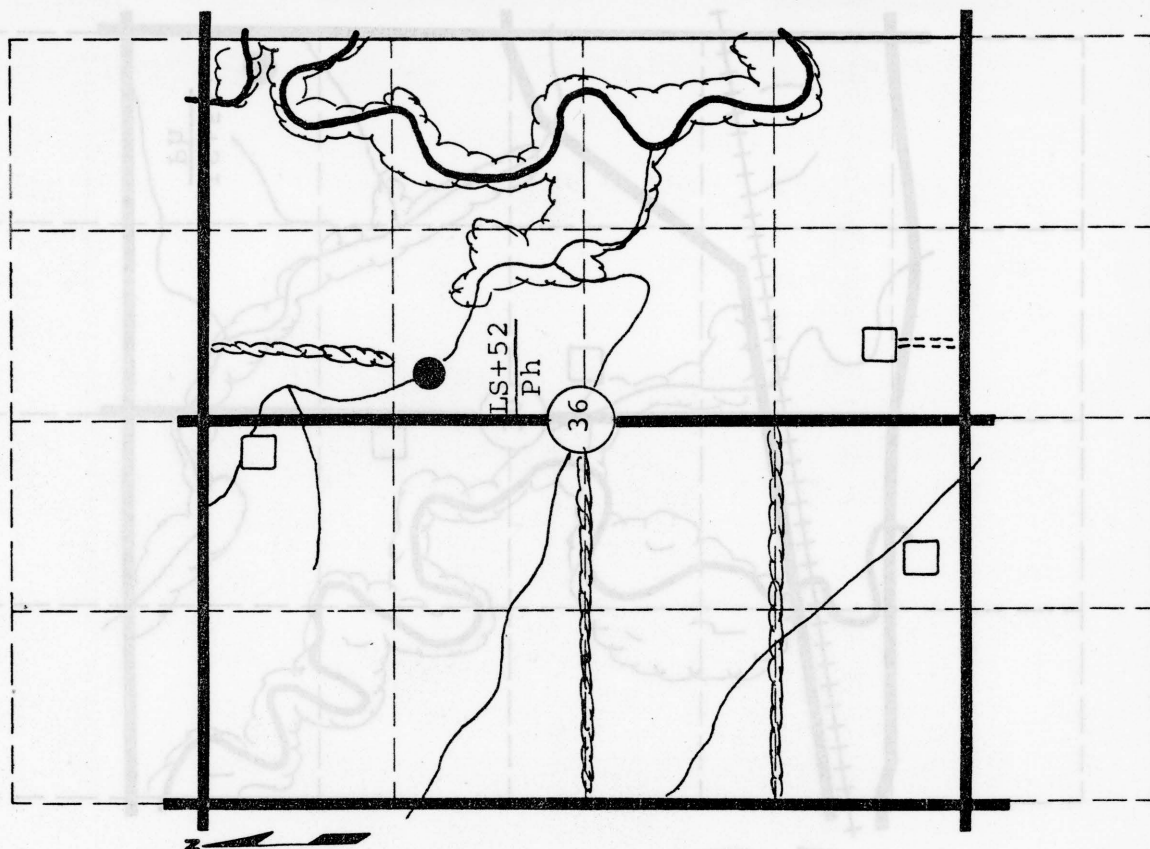
LS+52
Ph
 Site No. _____ Date November, 1968
 Material Limestone County Butler
 Location SW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 36 Twp. 24S Range 3E
 Owner George M. Myers Box 911 El Dorado, Kansas
 name _____ address _____
 Nature of Deposit Dry Accessibility Good Site Located on Plate III
 Status of site Open site; sampled

EXPLORATION DATA

[illegible]

CORRELATION DATA

Geological Age Permian
Geological Source Herington Limestone Member
Material Similar To Material reported under SHC Lab. No.
65-2762
Specific Gravity (Sat.) 2.56 (Dry) 2.43
Los Angeles Wear 47.5 (B)
Absorption 5.01 Soundness 0.89
Wt. Cu.Ft. Str. Ratio
Remarks For other test information on this site refer
to figure 16 in text.



Scale: 1" = $\frac{1}{4}$ Mile

MATERIAL SURVEY REPORT

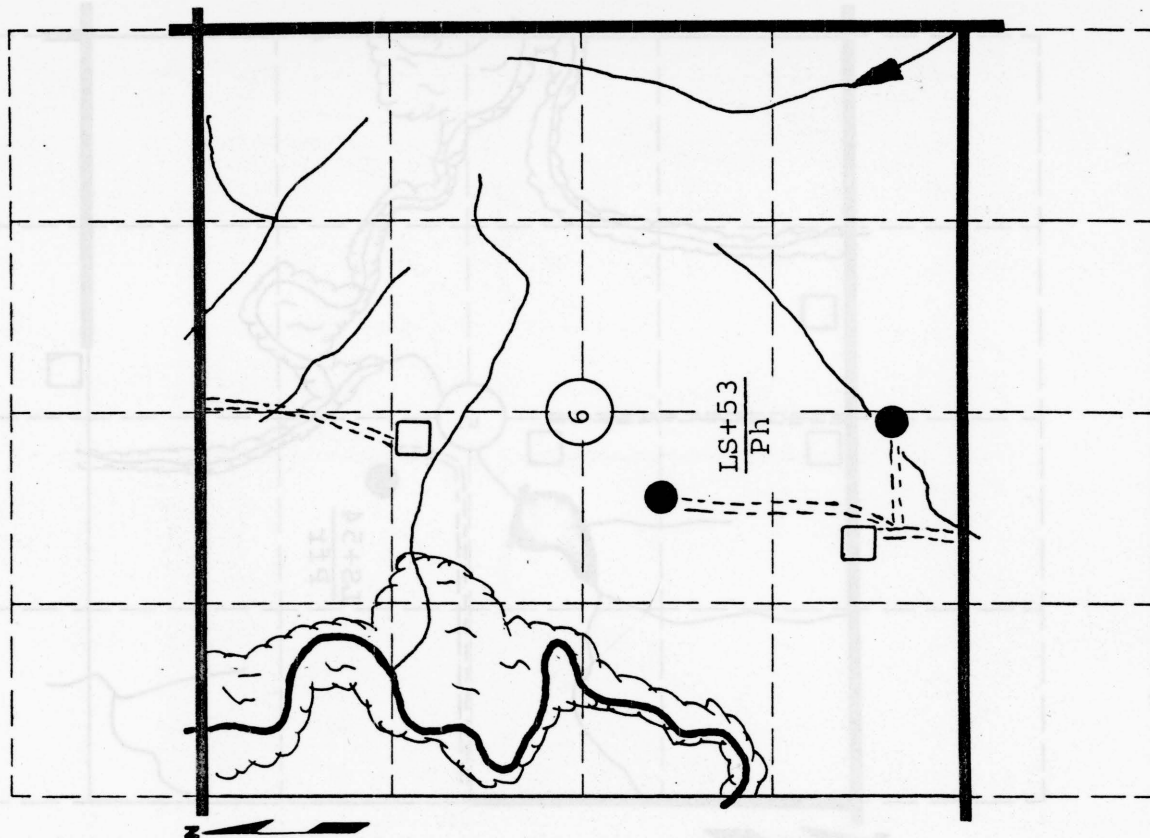
LS+53
Ph
 Site No. _____ Date November, 1968
 Material Limestone County Butler
 Location SW $\frac{1}{4}$ Sec. 6 Twp. 25S Range 4E
 Owner Eula Houston Potwin, Kansas
 name _____ address _____
 Nature of Deposit Dry Accessibility Good Site Located on: Plate III
 Status of Site Open site; sampled

EXPLORATION DATA

[illegible]

CORRELATION DATA

Geological Age Permian
Geological Source Herington Limestone Member
Material Similar To Material reported under SHC Lab. No. 24279
Specific Gravity (Sat.) 2.51 (Dry) 2.41
Los Angeles Wear 32.0 (B)
Absorption 5.57 Soundness 0.91
Wt. Cu. Ft. _____ Str. Ratio _____
Remarks For other test information on this site refer to figure 16 in text.



Scale: 1" = $\frac{1}{4}$ Mile

MATERIAL SURVEY REPORT

LS+54
pfr

Site No. _____ Date November, 1968

Material Limestone County Butler

Location NE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 5 Twp. 25S Range 6E

Owner John B. Cameron R. R. 4 El Dorado, Kansas

Maturity of Deposit Dry Accessibility Good address IV

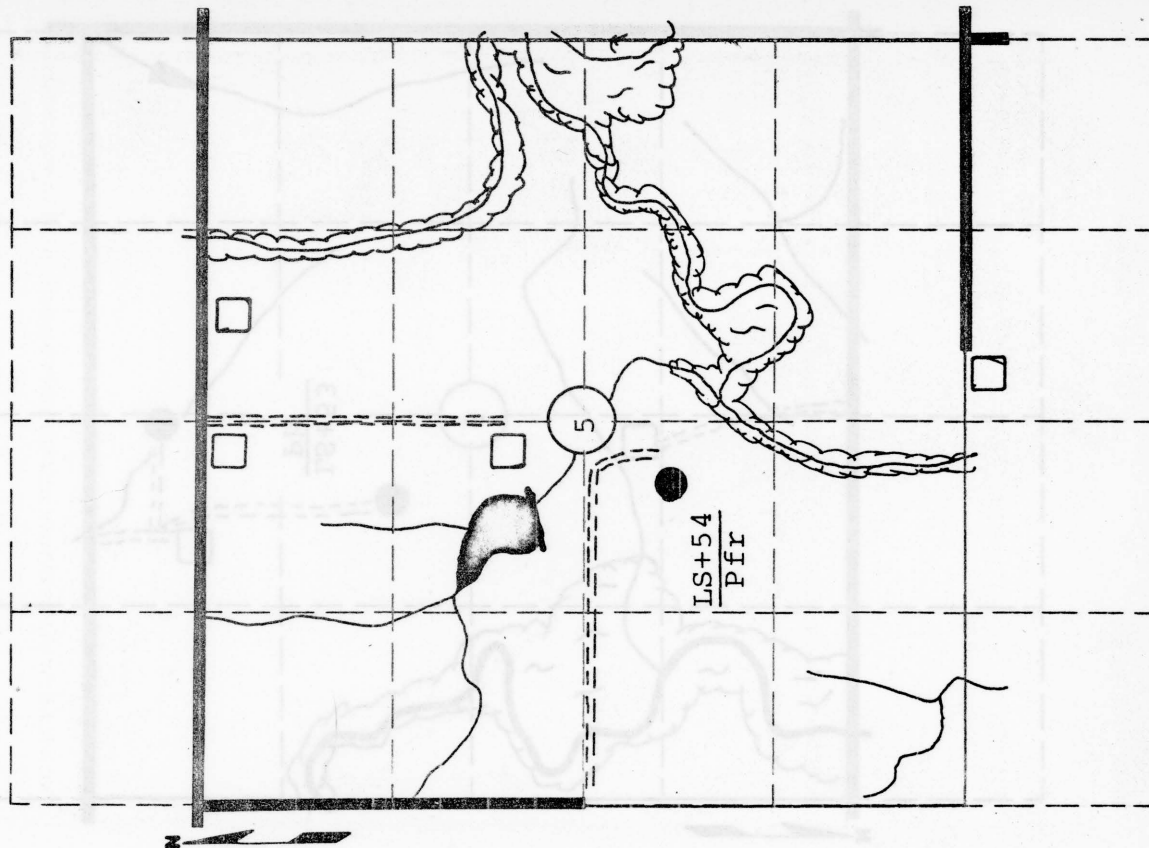
Status of site Open site; sampled Site Located on Plate _____

EXPLORATION DATA

[illegible]

CORRELATION DATA

Geological Age Permian
Geological Source Fort Riley Limestone Member
Material Similar to Material reported under SHC Lab. No.
89785
Specific Gravity (Sat.) 2.39 (Dry) _____
Los Angeles Wear 37.6(B)
Absorption 7.04 Soundness 0.82
Wt. Cu.Ft. _____ Str. Ratio _____
Remarks _____



Scale: 1" = $\frac{1}{4}$ mile

MATERIAL SURVEY REPORT

EXPLORATION DATA

CORRELATION DATA

Remarks. For other test information on this site refer to figure 16 in text.



STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

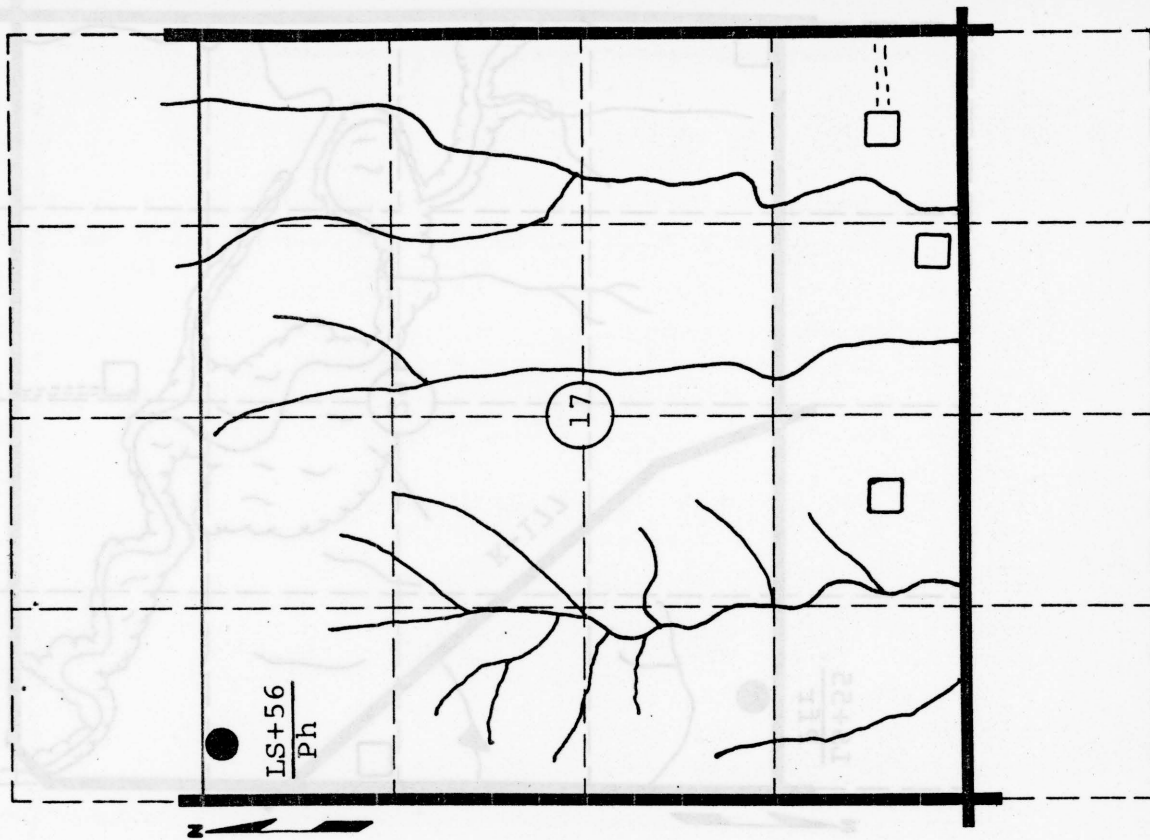
Site No. LS+56 Date November, 1968
Ph
 Material Limestone County Butler
 Location NW 1/4 NW 1/4 Sec. 17 Twp. 25S Range 4E
 Owner J. Arthur Wilson, 908 N. Washington, Iola, Kansas
name address
 Nature of Deposit Dry Accessibility Good Site Located on Plate III
 Status of Site Open site; sampled

EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of over-burden | Depth of Material | Percent Retained | | | | | | | | Wash 200 | G.F. | L.L. | P.I. | |
|-----------|----------------------------|----------------------|-------------------|------------------|-----|-----|---|---|----|----|----|----------|------|------|------|-----|
| | | | | 1 1/2 | 3/4 | 3/8 | 4 | 8 | 16 | 30 | 50 | | | | | 100 |
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CORRELATION DATA

Geological Age Permian
 Geological Source Herington Limestone Member
 Material Similar To Material reported under SHC Lab. No. 10755
 Specific Gravity (Sat.) 2.50 (Dry) 2.35
 Los Angeles Wear 51.2(B)
 Absorption 6.41 Soundness 0.71
 Wt. Cu.Ft. Str. Ratio
 Remarks For other test information on this site refer to figure 16 in text.



MATERIAL SURVEY REPORT

LS+57
Ph

Site No. _____ Date November, 1968

Material Limestone County Butler

Location NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 18 Twp. 25S Range 4E

Owner Charles P. Joseph Potwin, Kansas

name _____ address _____

Mature of Deposit Dry Accessibility Good Site Located on Plate III

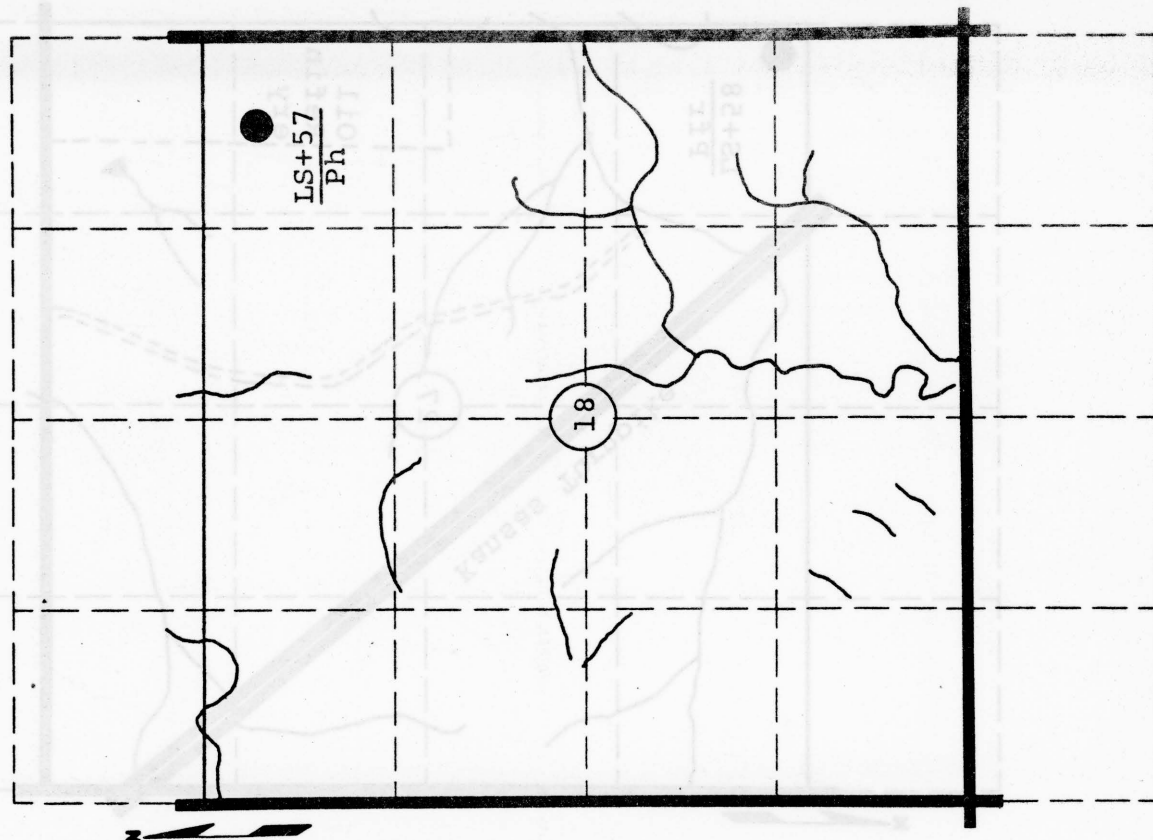
Status of Site Open site; sampled

EXPLORATION DATA

[illegible]

CORRELATION DATA

Geological Age Permian
Geological Source Herington Limestone Member
Material Similar To Material reported under SHC Lab. No.
20582
Specific Gravity (Sat.) 2.49 (Dry) 2.34
Los Angeles Wear 51.0 (B)
Absorption 6.38 Soundness 0.81
Wt. Cu.Ft. _____ Str. Ratio _____
Remarks For other test information on this site refer
to figure 16 in text.



Scale: 1" = $\frac{1}{4}$ Mile

MATERIAL SURVEY REPORT

LS+58
Pfr _____ Date November, 1968

Material Limestone County Butler

Location NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 27 Twp. 25S Range 5E

Owner See Remarks name _____ address _____

Nature of Deposit Dry Accessibility Poor Site Located on Plate III

Status of Site Open site; sampled

EXPLORATION DATA

[illegible]

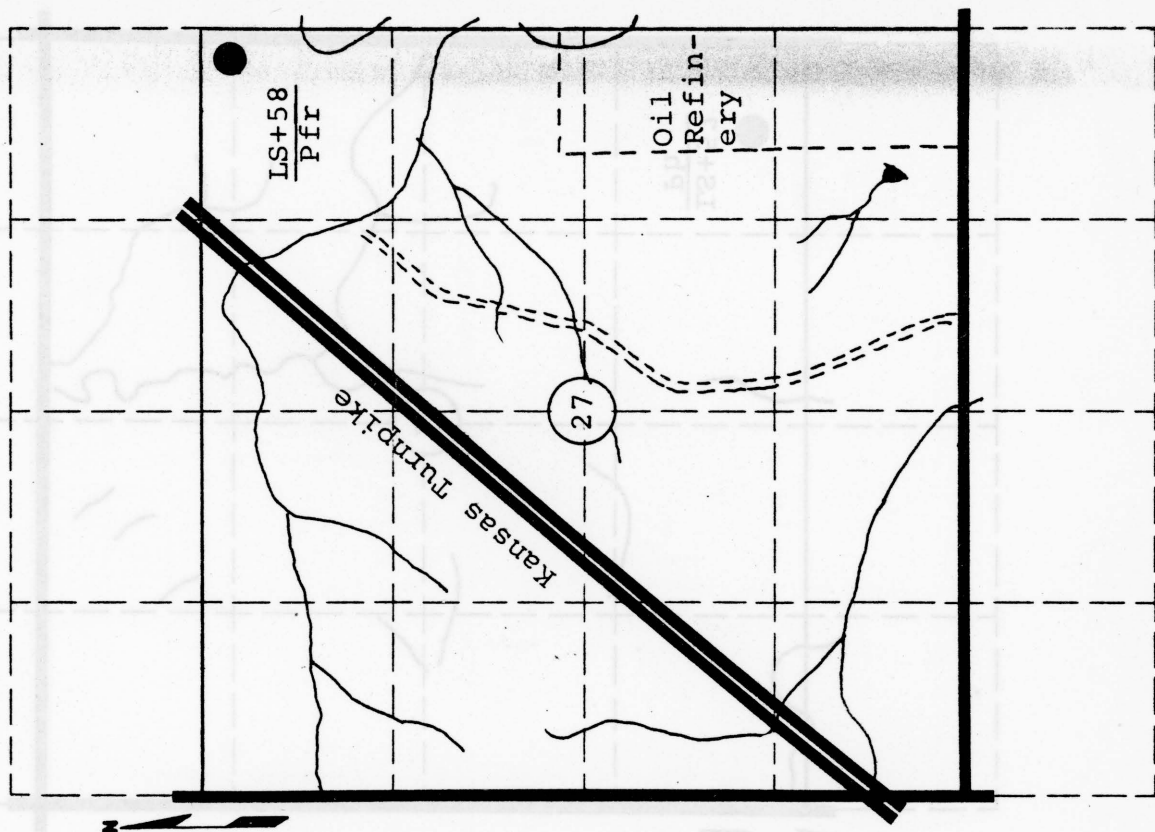
CORRELATION DATA

Geological Age Permian
Geological Source Fort Riley Limestone Member
Material Similar To Material reported under SHC Lab. No.
92763

Specific Gravity (Sat.) 2.59 (Dry) _____
Los Angeles Wear 41.8 _____
Absorption 9.53 Soundness 0.76 _____
Wt. Cu.Ft. _____ Str. Ratio _____

Remark: For other test information on this site refer to figure 16 in text.

Minnie W. Augustine et al, & Nell Kunkle,
417 N. Tocka, El Dorado, Kansas



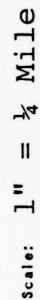
Scale: 1" = $\frac{1}{4}$ Mile

MATERIAL SURVEY REPORT

EXPLORATION DATA

CORRELATION DATA

Specific Gravity (Sat.) 2.57 (Dry) _____
 Los Angeles Wear 27.7 (A) _____
 Absorption 1.70 _____ Soundness _____
 Wt. Cu.Ft. _____ Str. Ratio _____
 Remarks _____



$$\frac{LS+60}{Pfr}$$

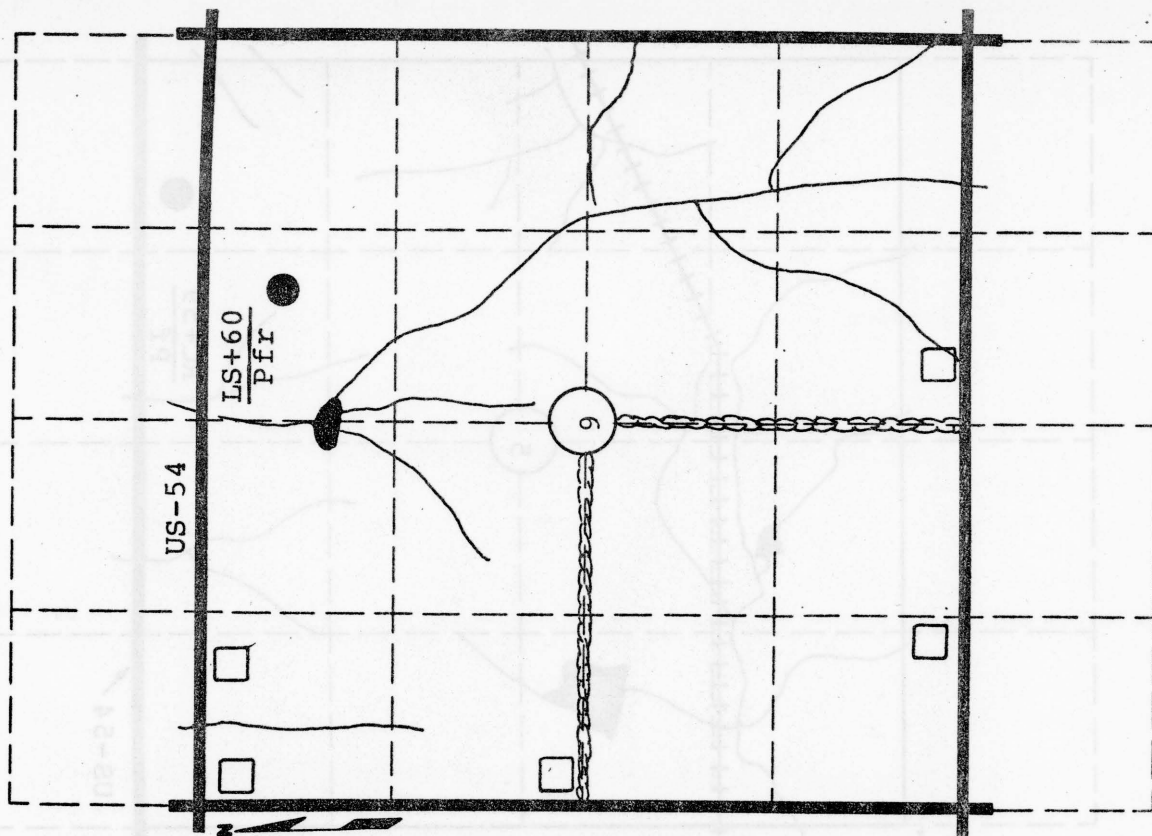
Pfr _____ Date November, 1968
Limestone _____ County Butler
NW $\frac{1}{4}$ NE $\frac{1}{4}$ _____ Sec. 9 Twp. 26S Range 6E
Owner Gladys P. Willhite, 120 S. Pattin, Wichita, Kansas
Dry _____ Accessibility Good Site Located on Plate IV
Open site; sampled
status of site _____

EXPLORATION DATA

[illegible]

CORRELATION DATA

Permian. Fort Riley Limestone Member
Geological Age Geological Source
Material Similar To Material reported under SHC Lab. No.
34012
Specific Gravity (Sat.) 2.45 (Dry) 2.32
Los Angeles Wear 33.9(B)
Absorption 5.42 Soundness 0.83
Wt. Cu.Ft. Str. Ratio
Remarks For other test information on this site refer to figure 16 in text.



Scale: 1" = $\frac{1}{4}$ Mile

MATERIAL SURVEY REPORT

LS+61
Pfr

Site No. _____ Date November, 1968

Material Limestone County Butler

Location NW $\frac{1}{4}$ Sec. 5 Twp. 26S Range 6E

Owner _____ name _____ address _____

See Remarks _____

Mature of Deposit Dry Accessibility Good Site Located on Plate IV

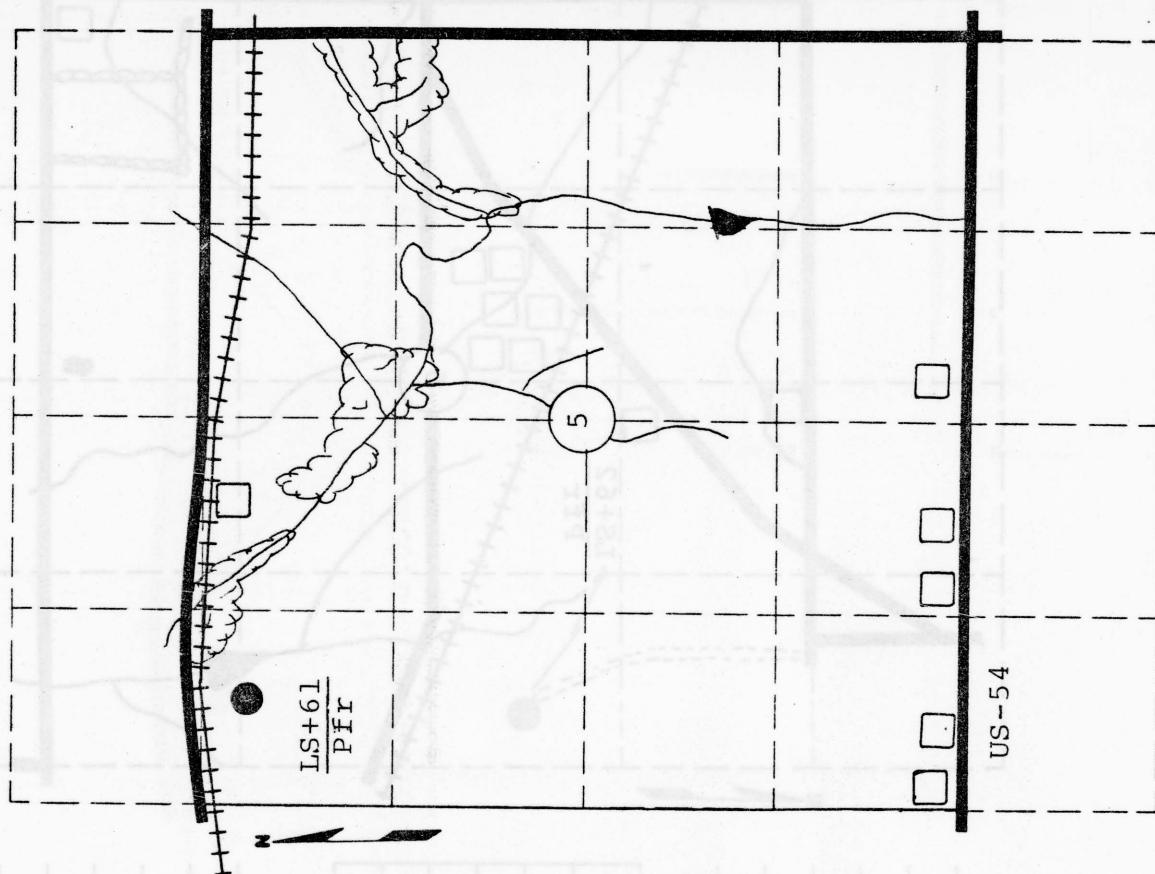
Status of site Open site; sampled

EXPLORATION DATA

[illegible]

CORRELATION DATA

Geological Age Permian
Geological Source Fort Riley Limestone Formation
Material Similar To Material reported under SHC Lab. No.
71309
Specific Gravity (Sat.) 2.47 (Dry) _____
Los Angeles Wear 33.0 (A)
Absorption 4.45 Soundness 0.75
Wt. Cu.Ft. _____ Str. Ratio _____
Remarks For other test information on this site refer
to figure 16 in text.
Dolese Brothers, 13 NW 13th St., Oklahoma City, Okla.



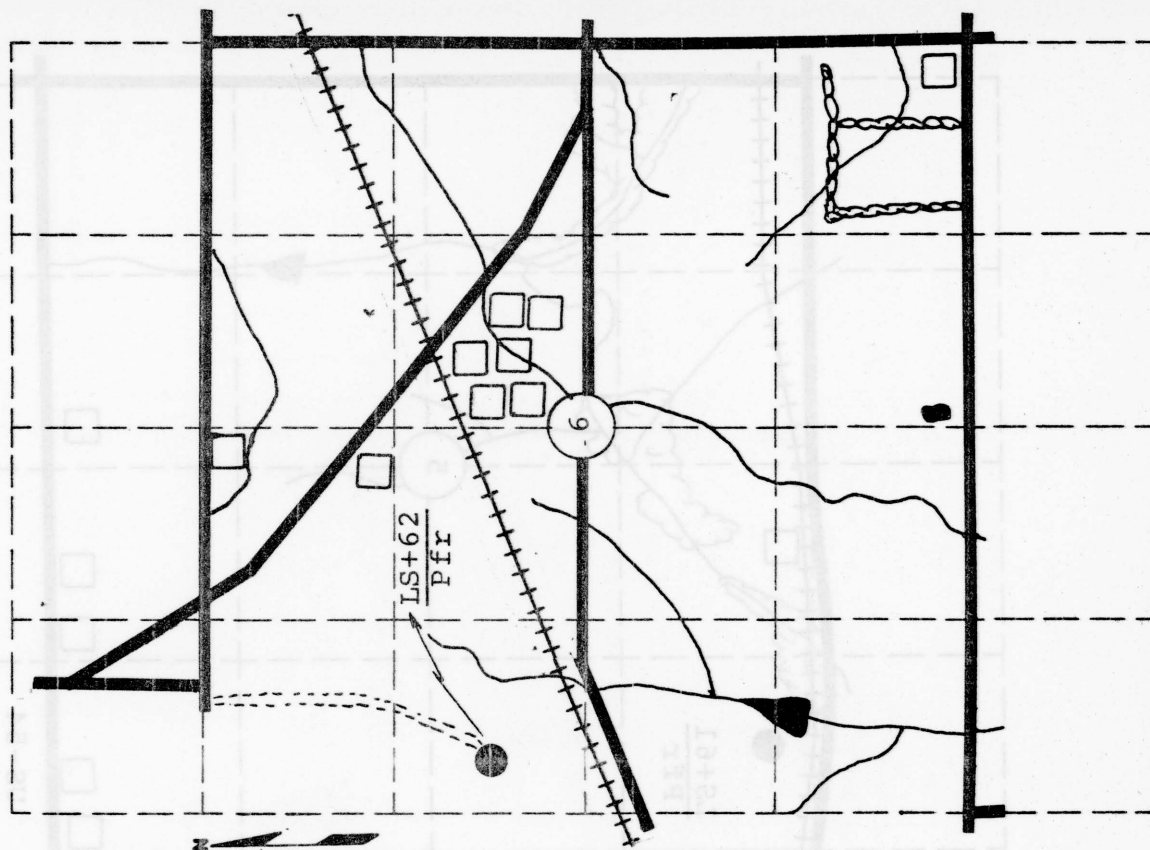
Scale: 1" = $\frac{1}{4}$ Mile

MATERIAL SURVEY REPORT

EXPLORATION DATA

CORRELATION DATA

Scale: 1" = $\frac{1}{4}$ Mile



MATERIAL SURVEY REPORT

LS+64
Pc _____ Date November, 1968

Material Limestone County Butler

Location SW $\frac{1}{4}$ Sec. 17 Twp. 26S Range 4E

Owner Harold Shaffer name _____ Towanda, Kansas

Mature of Deposit Dry Accessibility Good address _____ Site Located on Plate III

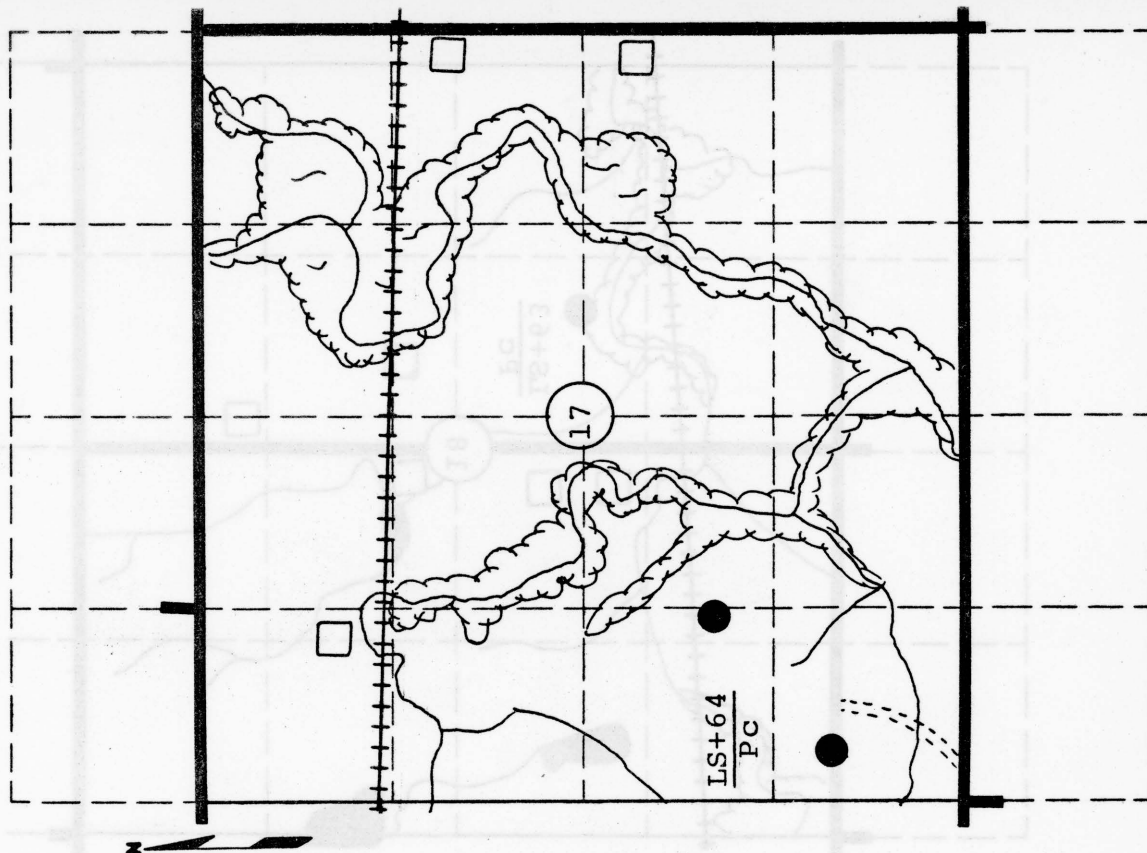
Status of Site Open site; sampled

EXPLORATION DATA

[illegible]

CORRELATION DATA

Geological Age Permian
Geological Source Creßwell Limestone Member
Material Similar To Material reported under SHC Lab. No. 18242
Specific Gravity (Sat.) 2.48 (Dry) 2.40
Los Angeles Wear 26.4 (B)
Absorption 3.40 Soundness 0.97
Wt. Cu.-ft. _____ Str. Ratio _____
Remarks For other test information on this site refer to figure 16 in text.



Scale: 1" = $\frac{1}{4}$ Mile

MATERIAL SURVEY REPORT

LS+65
Pfr
 Site No. _____ Date November, 1968
 Material Limestone County Butler
 Location S $\frac{1}{2}$ NW $\frac{1}{4}$ Sec. 10 Twp. 27S Range 5E
 Owner _____ address _____
 See Remarks
 name _____
 Nature of Deposit Dry Accessibility Good Site Located on Plate V
 Status of Site Open site; sampled

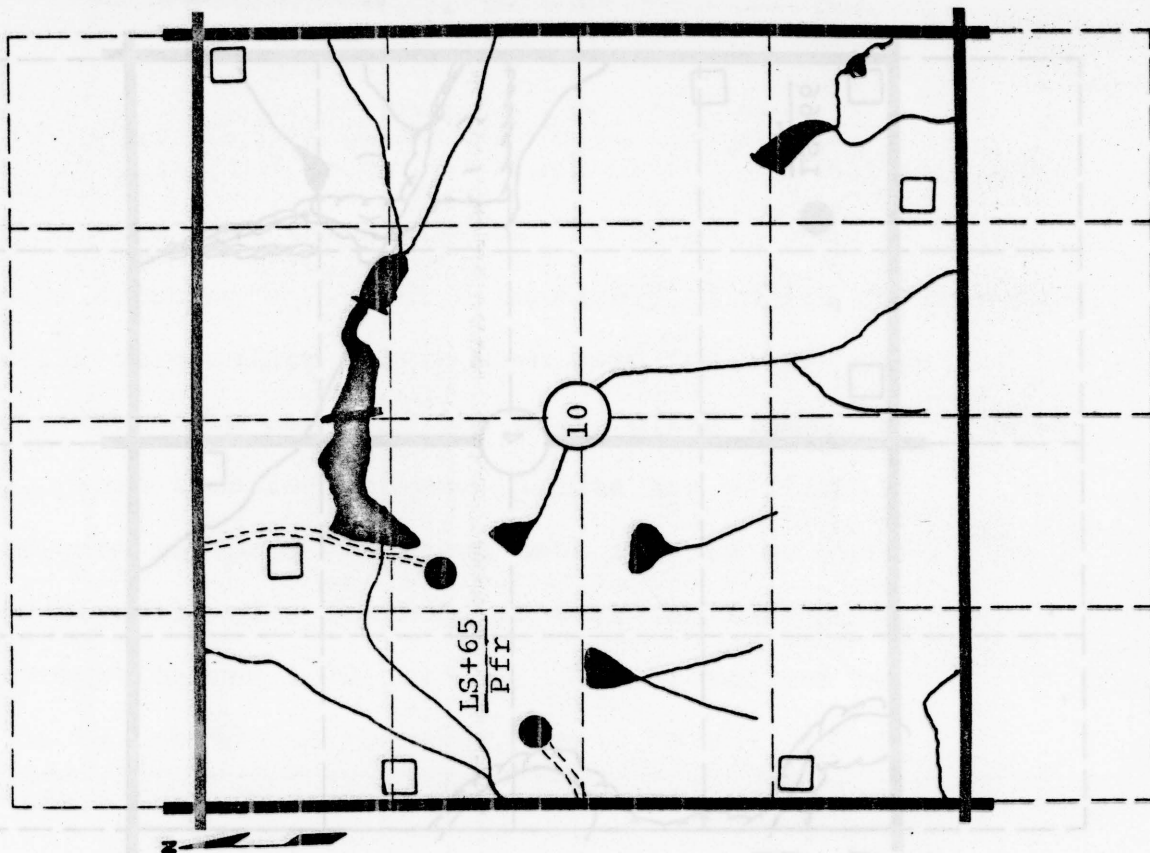
EXPLORATION DATA

[illegible]

CORRELATION DATA

Geological Age Permian
Geological Source Fort Riley Limestone Member
Material Similar To Material reported under SHC Lab. No.
86750
Specific Gravity (Sat.) 2.44 (Dry) 2.32
Los Angeles Wear 36.7 (B)
Absorption 5.37 Soundness 0.81
Wt. Cu.Ft. _____ Str. Ratio _____
Remarks For other test information on this site refer
to figure 16 in text.

Clara M. Myers, 1631 Sherry Lee Lane, El Dorado, Ks.
Meryl Seglem, R. R. 1, El Dorado, Kansas



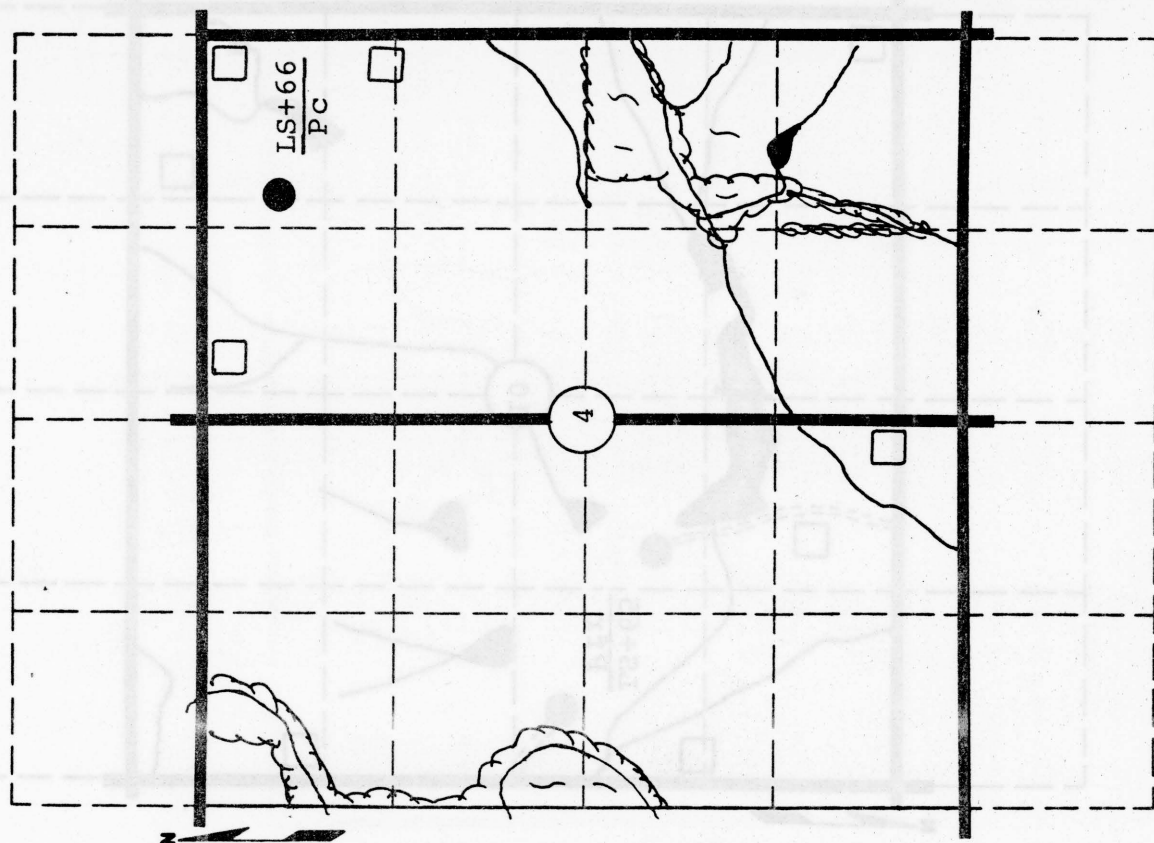
Scale: 1" = $\frac{1}{4}$ Mile

EXPLORATION DATA

[illegible]

CORRELATION DATA

Geological Age Permian
Geological Source Cresswell Limestone Member
Material Similar To Material reported under SHC Lab. No.
90766
Specific Gravity (Sat.) 2.46 (Dry) 2.38
Los Angeles Wear 29.6 (B)
Absorption 3.60 Soundness 0.94
Wt. Cu. Ft. _____ Str. Ratio _____
Remarks For other test information on this site refer
to figure 16 in text.



Scale: 1" = $\frac{1}{4}$ Mile

MATERIAL SURVEY REPORT

LS+67
PC

Site No. _____ Date November, 1968

Material Limestone

County Butler

Location SW $\frac{1}{4}$

Sec. 5 Twp. 27S Range 4E

Owner Clyde V. Lassman, R. R. 1 Towanda, Kansas

Name _____ address _____

Nature of Deposit Dry Accessibility Good Site Located on Plate V

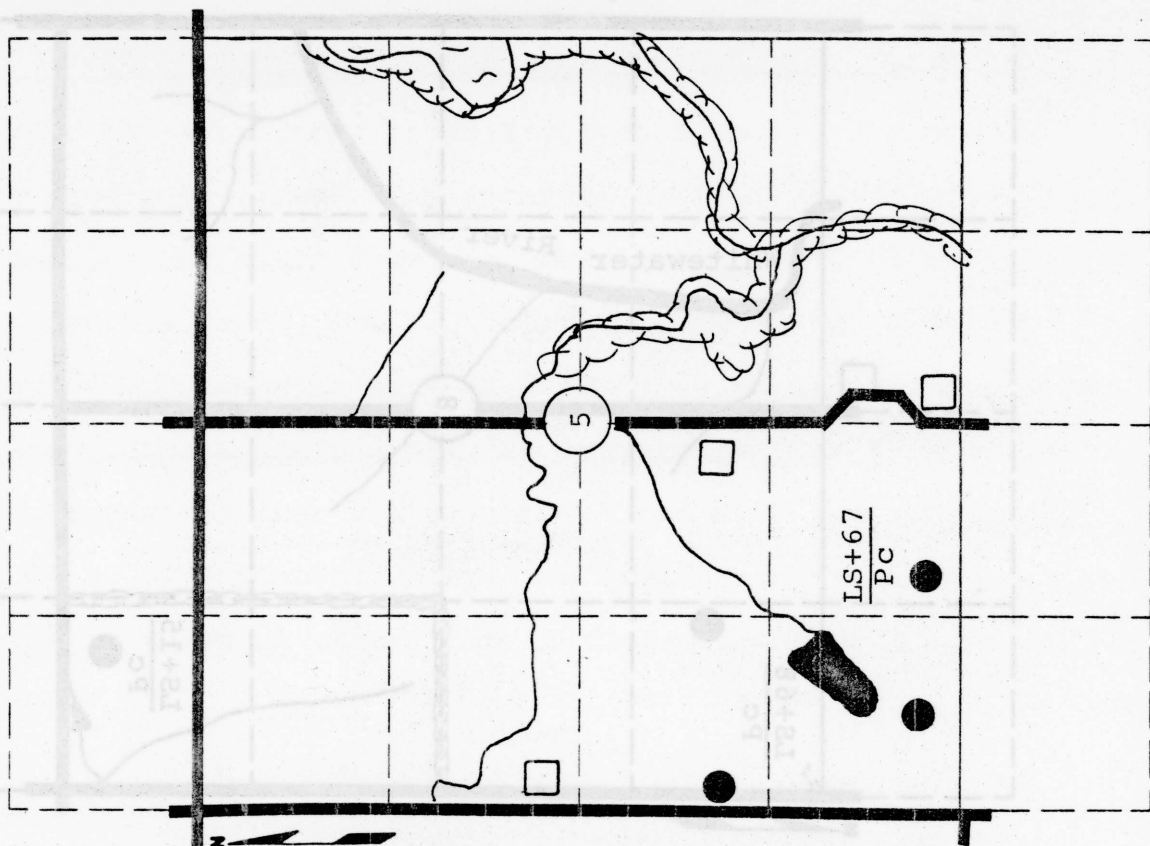
Status of site Open site; sampled

EXPLORATION DATA

[illegible]

CORRELATION DATA

Geological Age Permian
Geological Source Cresswell Limestone Member
Material similar to Material reported under SHC Lab. No.
91444
Specific Gravity (Sst.) 2.38 (Dry)
Los Angeles Wear 35.6 (B)
Absorption 5.20 Soundness 0.94
Wt. Cu.Ft. _____ Str. Ratio _____
Remarks _____



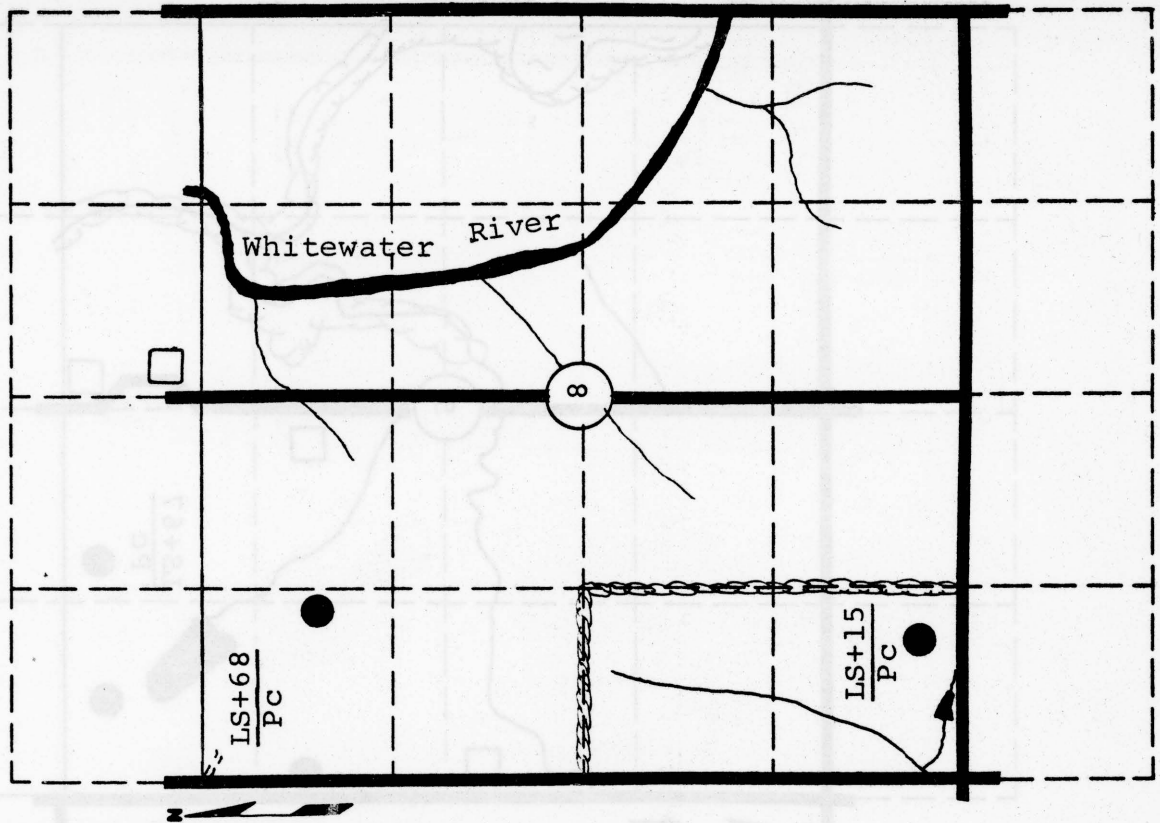
Scale: 1" = $\frac{1}{4}$ Mile

MATERIAL SURVEY REPORT

EXPLORATION DATA

CORRELATION DATA

Scale: 1" = $\frac{1}{4}$ Mile



MATERIAL SURVEY REPORT

LS+69
Ph
 Site No. _____ Date November, 1968
 Material Limestone County _____
 Location NE $\frac{1}{2}$ NE $\frac{1}{4}$ Sec. 10 Twp. 27S Range 3E
 Owner William Wolf R. R. 1 Augusta, Kansas
 name _____ address _____
 Nature of Deposit Dry Accessibility Good Site Located on Plate V
 Status of Site Open site; sampled

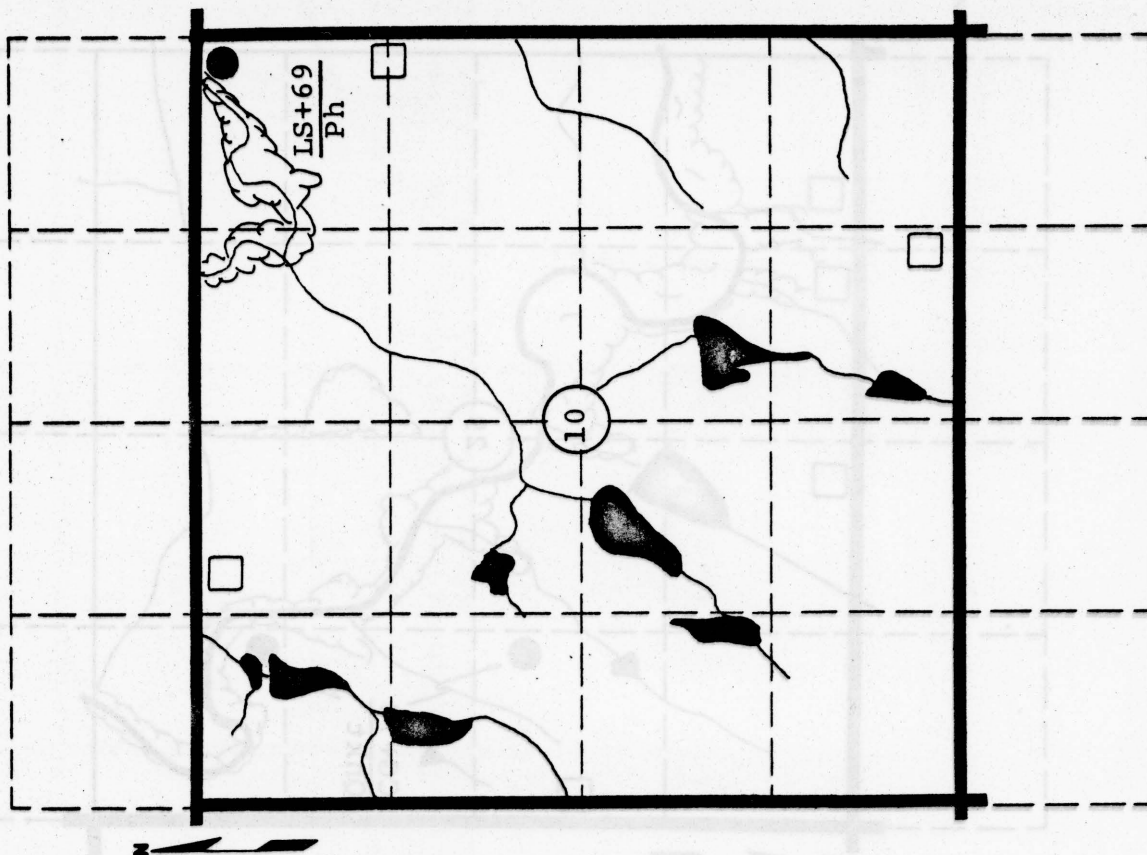
EXPLORATION DATA

[illegible]

CORRELATION DATA

Geological Age Permian
Geological Source Herington Limestone Member
Material Similar To Material reported under SHC Lab. No.
67028

Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Wear 48.6 (A)
 Absorption _____ Soundness _____
 Wt. Cu. Ft. _____ Str. Ratio _____
 Remarks _____



Scale: 1" = $\frac{1}{4}$ Mile

MATERIAL SURVEY REPORT

EXPLORATION DATA

CORRELATION DATA

Remarks: For other test information on this site refer to figure 17 in text.

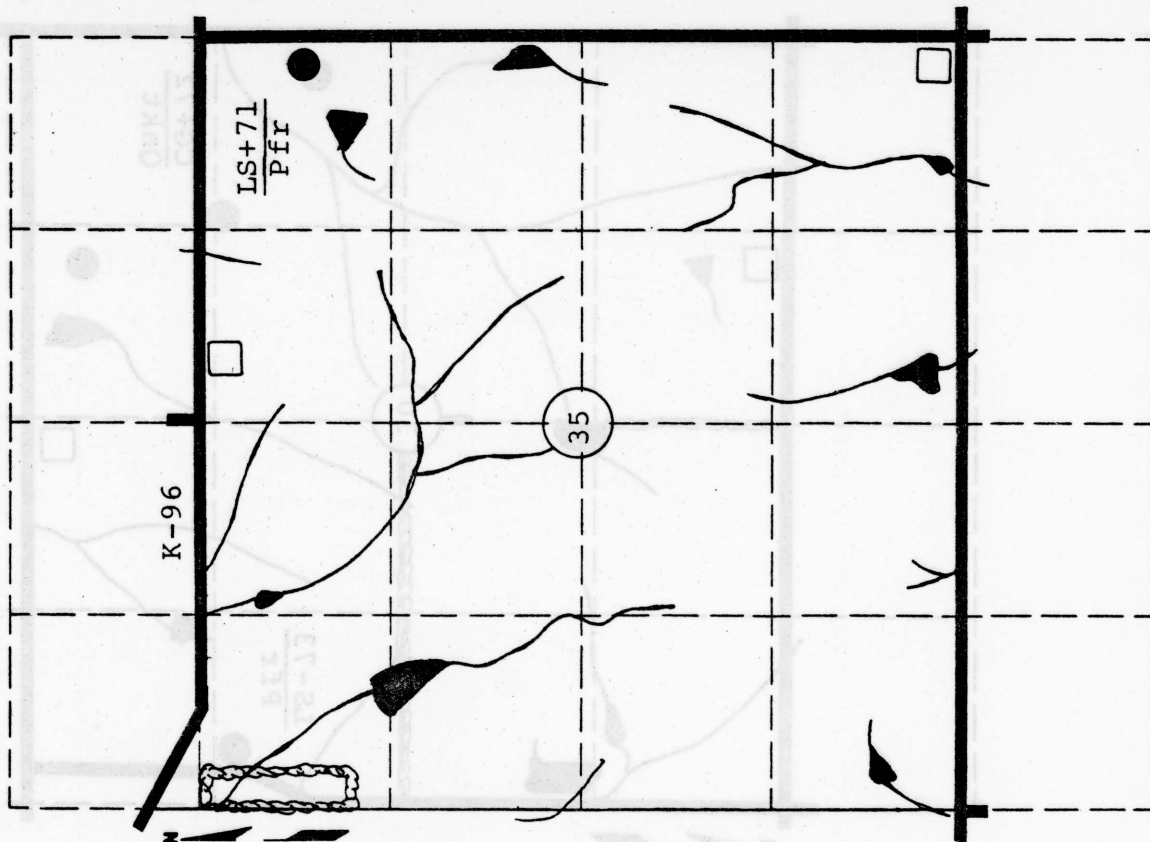


MATERIAL SURVEY REPORT

EXPLORATION DATA

CORRELATION DATA

Scale: 1" = $\frac{1}{4}$ Mile



STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

Site No. CG+72 Date November, 1968
Onkt
Material Chert Gravel County Butler
Location SE 1/4 Sec. 30 Twp. 27S Range 6E
Owner James R. Pettit Box 34 Leon, Kansas
name address
Nature of Deposit Dry Accessibility Good Site Located on Plate VI
Status of Site Open site; sampled

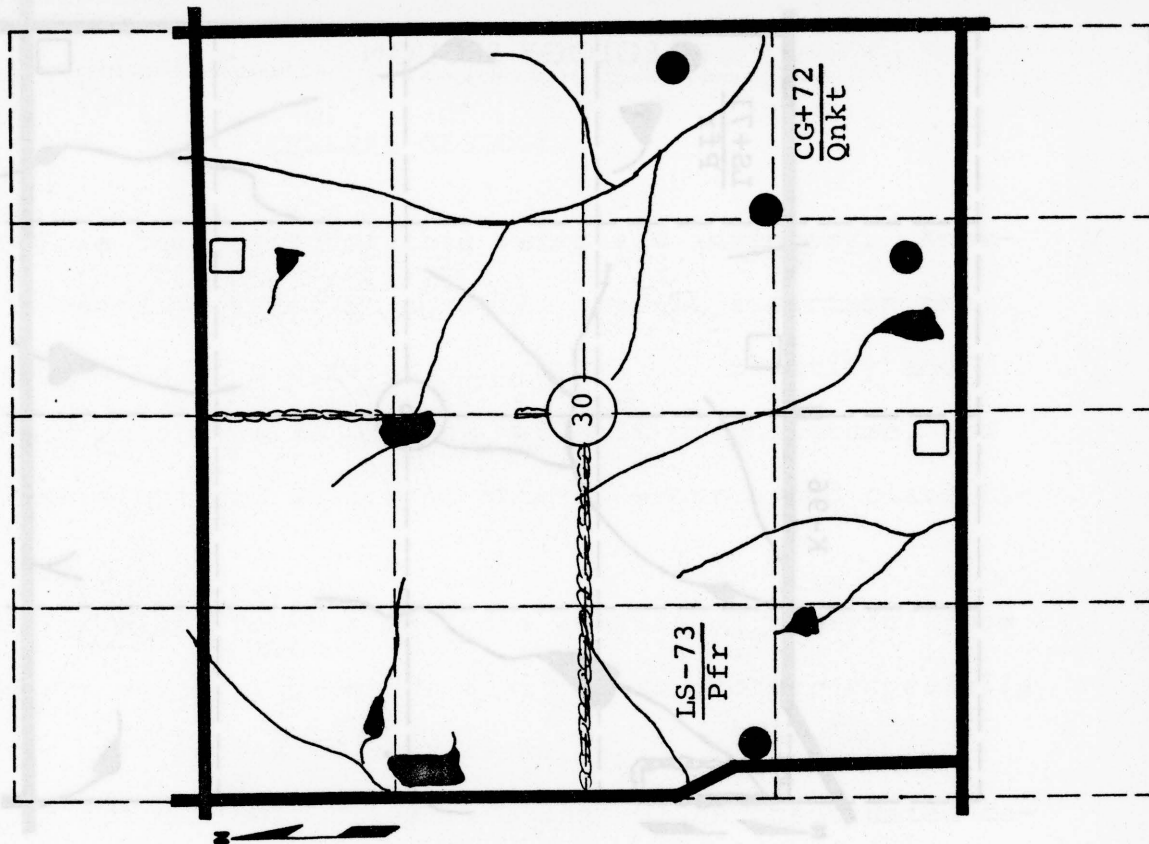
EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of over-Burden | Depth of Material | Percent Retained | | | | | | | | Wash 200 | G.F. | L.L. | P. I. |
|-----------|----------------------------|----------------------|-------------------|------------------|-----|-----|-----|----|----|----|----|----------|------|------|-------|
| | | | | 1 1/2 | 3/4 | 3/8 | 1/4 | 8 | 16 | 30 | 50 | | | | |
| AV | | | | 37 | 53 | 62 | 70 | 74 | 75 | 76 | 77 | 23 | | 50 | 28 |
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CORRELATION DATA

Geological Age Quaternary (Nebraskan-Kansan)
Geological Source Chert Gravel Terrace Deposit
Material Similar to Material reported on SHC form 619 No. 8-18
Lab. No. 81955.

Specific Gravity (Sat.) 19.2(A) (dry)
Los Angeles Wear 0.98
Absorption 0.98
Wt. Cu. Ft. Str. Ratio
Remarks For other test information on this site refer to figure 17 in text.



Scale: 1" = 1/4 Mile

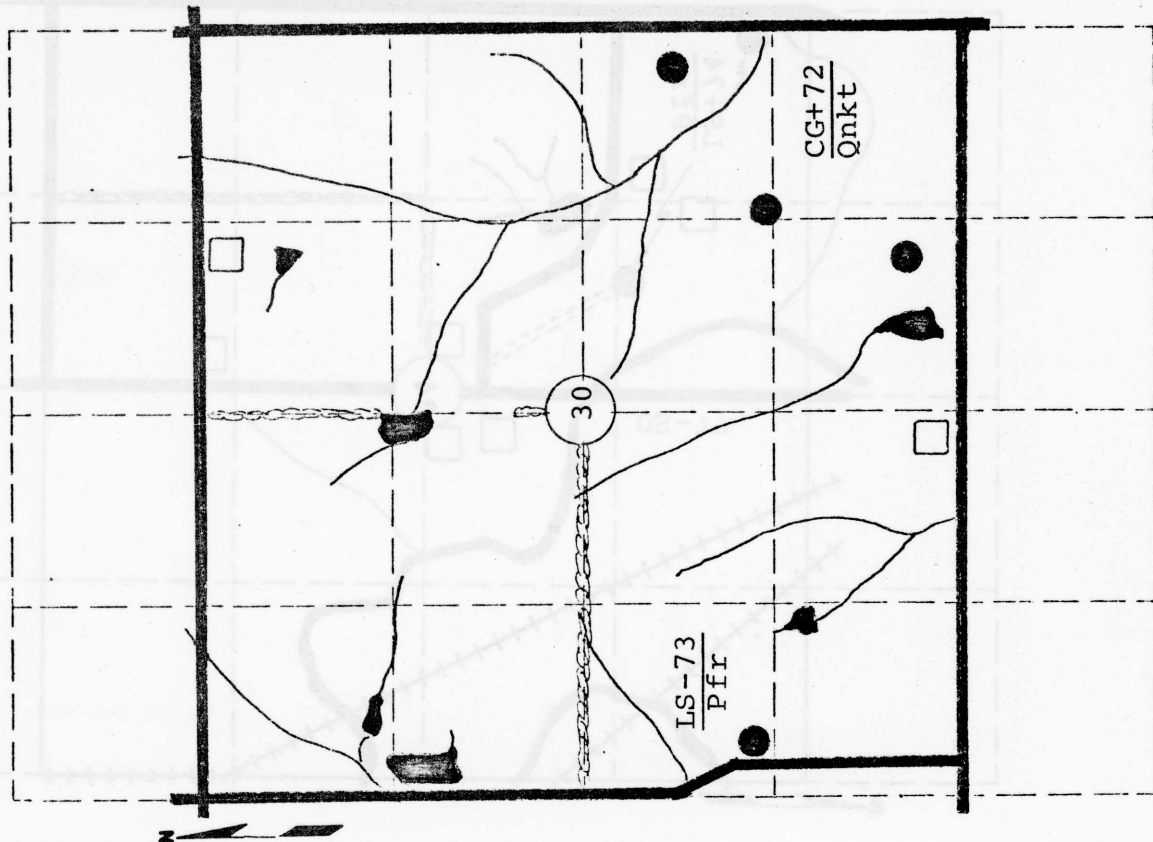
MATERIAL SURVEY REPORT

EXPLORATION DATA

[illegible]

CORRELATION DATA

Geological Age Permian Geological Source Fort Riley Limestone Member
Material Similar To Material reported under SHC Lab. No. 81958
Specific Gravity (Sat.) 2.41 (Dry)
Los Angeles Wear 35.2 (B)
Absorption 5.78 Soundness 0.95
Wt. Cu.Ft. _____ Str. Ratio _____
Remarks For other test information on this site refer to figure 16 in text.



Scale: 1" = $\frac{1}{4}$ Mile

MATERIAL SURVEY REPORT

LS+74
Pfr

Site No. _____ Date November, 1968

Material Limestone County Butler

Location NE $\frac{1}{4}$ Sec. 34 Twp. 27S Range 4E

Owner See Remarks name _____ address _____

Mature of Deposit Dry Accessibility Fair Site Located on Plate V

Status of Site Open site; sampled

EXPLORATION DATA

[illegible]

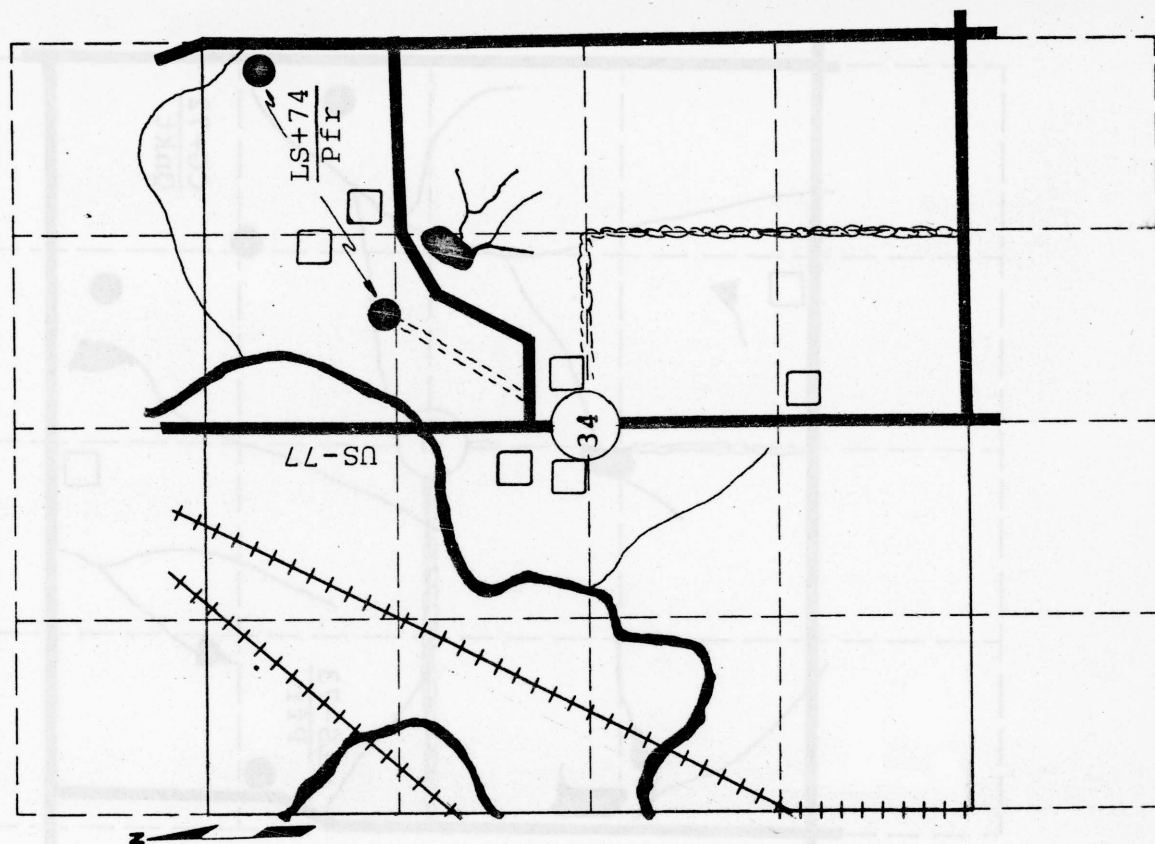
CORRELATION DATA

Geological Age Permian
Geological Source Fort Riley Limestone Member
Material Similar To Material reported under SHC Lab. No.
62074

Specific Gravity (Sat.) 2.26 (Dry) _____
Los Angeles Weir 47.6 (A) _____
Absorption 9.91 Soundness 0.94 _____
Wt. Cu.Ft. _____ Str. Ratio _____

Remarks: For other test information on this site refer to figure 16 in text.

Ralph L. Smith, & J. A. Smith
R. P. 3, August, Kansas



Scale: 1" = $\frac{1}{4}$ Mile

MATERIAL SURVEY REPORT

LS+75
Pfr

Site No. _____ Date November, 1968

Material Limestone County Butler

Location NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 35 Twp. 27S Range 4E

Owner Dorothy Hoopes, 1920 Meadowlake Dr., Augusta, Kansas address _____

Mature of Deposit Dry Accessibility Fair Site Located on Plate V

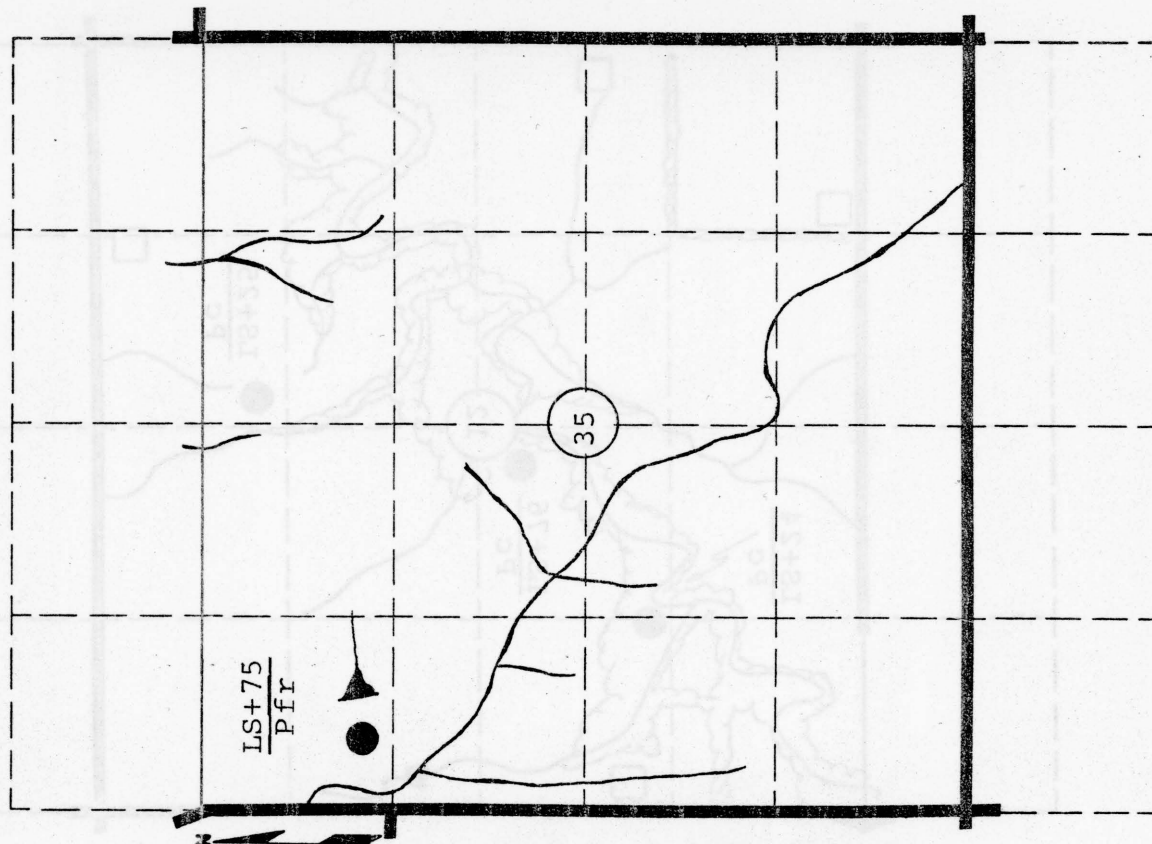
Status of Site Open site; sampled

EXPLORATION DATA

[illegible]

CORRELATION DATA

Geological Age Permian
Geological Source Fort Riley Limestone Member
Material Similar To Material reported under SHC Lab. No.
81962
Specific Gravity (Sat.) 2.25 (Dry)
Los Angeles Wear 48.2(B)
Absorption 11.11 Soundness 0.89
Wt. Cu.Ft. _____ Str. Ratio _____
Remarks For other test information on this site refer
to figure 16 in text.



Scale: 1" = $\frac{1}{4}$ Mile

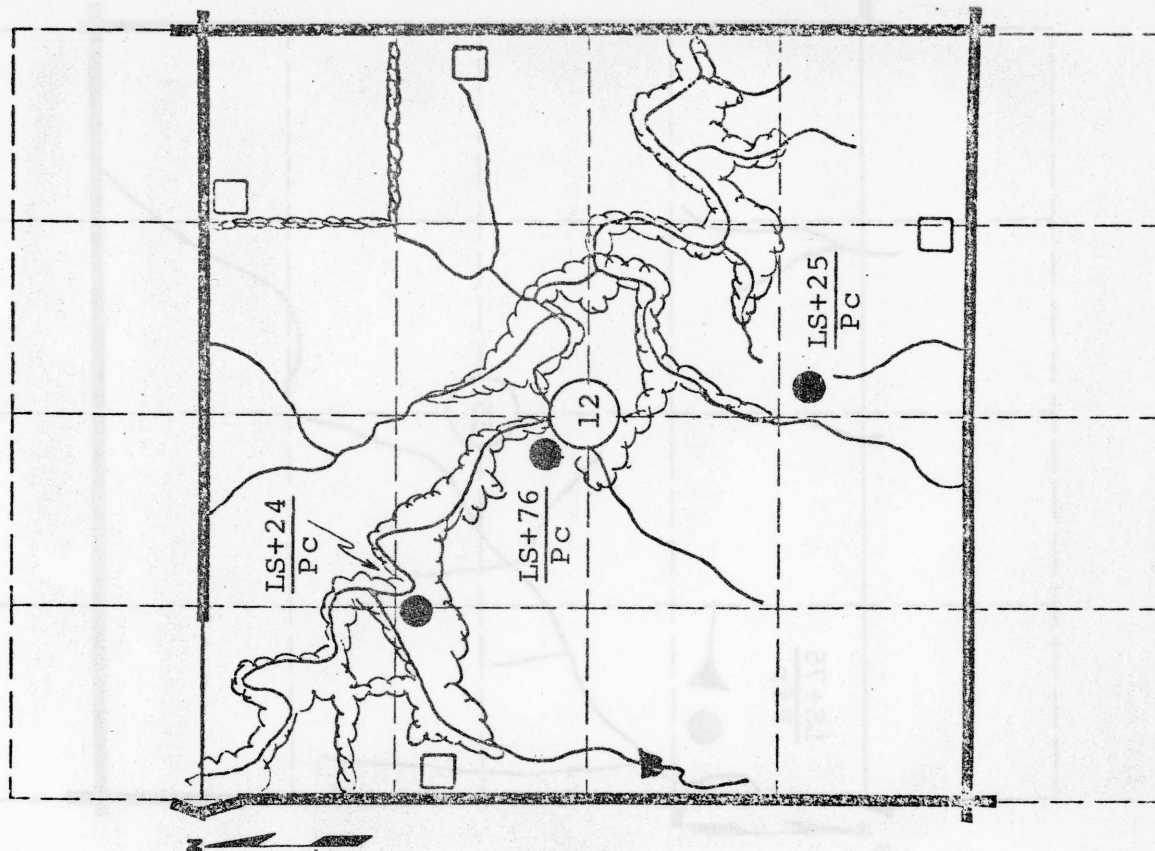
MATERIAL SURVEY REPORT

EXPLORATION DATA

[illegible]

CORRELATION DATA

Geological Age Permian
Geological Source Cresswell Limestone Member
Material Similar To Material reported under SHC Lab. No.
10344
Specific Gravity (Sat.) 2.49 (Dry) 2.40
Los Angeles Wear 31.2 (B)
Absorption 3.72 Soundness 0.89
Wt. Cu. Ft. _____ Str. Ratio _____
Remarks For other test information on this site refer
to figure 16 in text



scale: 1" = $\frac{1}{4}$ Mile

MATERIAL SURVEY REPORT

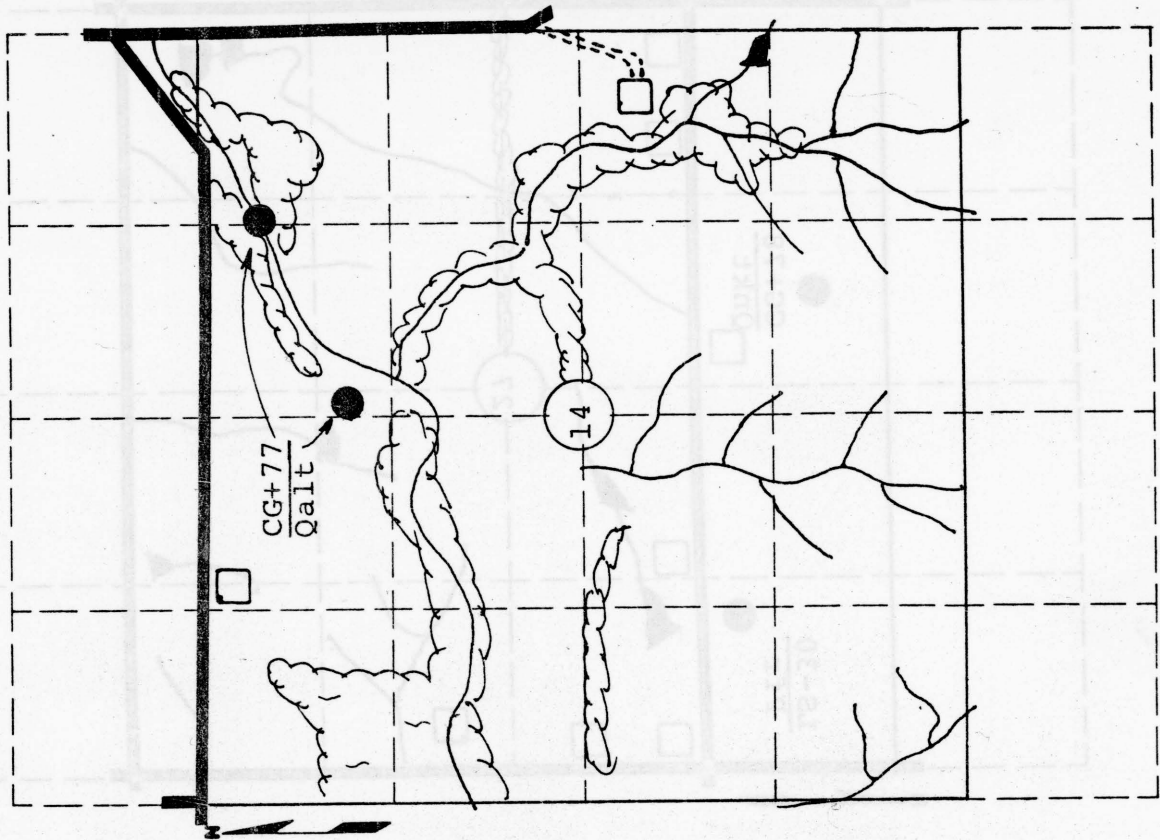
Site No. CG+77 Date November, 1968
Qalt
 Material Chert Gravel County Butler
 Location NW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 14 Twp. 28S Range 6E
 Owner Philip H. Lucas R. R. 3 Leon, Kansas
 name address
 Nature of Deposit Dry accessibility Good Site Located on Plate VIII
 Status of Site Open site; sampled

EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of over-Burden | Depth of Material | Percent Retained | | | | | | | | Wash 200 | G.F. | L.L. | P.I. | |
|-----------|----------------------------|----------------------|-------------------|------------------|-----|-----|-----|---|----|----|----|----------|------|------|------|-----|
| | | | | 1 1/2 | 3/4 | 3/8 | 1/4 | 8 | 16 | 30 | 50 | | | | | 100 |
| | | | | 54 | 100 | " | " | " | " | " | " | " | " | " | " | " |
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CORRELATION DATA

Geological Age Quaternary
 Geological Source Alluvium and Terrace Deposits
 Material Similar To Material reported under SHC Lab. No. 66-3518
 Specific Gravity (Sat.) 2.45 (Dry) 2.37
 Los Angeles Wear 17.9(B)
 Absorption 3.18 Soundness 0.99
 Wt. Cu.ft. Str. Ratio
 Remarks For other test information on this site refer to figure 17 in text.

Scale: 1" = $\frac{1}{4}$ Mile

MATERIAL SURVEY REPORT

CG+78

Onkt

Site No. Qnkt Date November, 1968

Chert Gravel

| Material | County |
|--------------|--------|
| Chert Gravel | |

| Location | $NW\frac{1}{4}$ | $NE\frac{1}{4}$ |
|----------|-----------------|-----------------|
| 27 | 28S | 4E |

Ed Maher R. R. 3 Augusta, Kansas

| | |
|-----------------------------|-----|
| Name _____ | |
| Nature of Deposit ————— Dry | |
| Accessability ————— Good | VII |
| Site Located on Plate _____ | |
| Address _____ | |

status of site _____ Open site; sampled

EXPLORATION DATA

[illegible]

CORRELATION DATA

Quaternary (Nebraskan-Kansan)

Chert Gravel Terrace Deposit

Material similar to _____ Material reported under SHC Lab. No. 86751

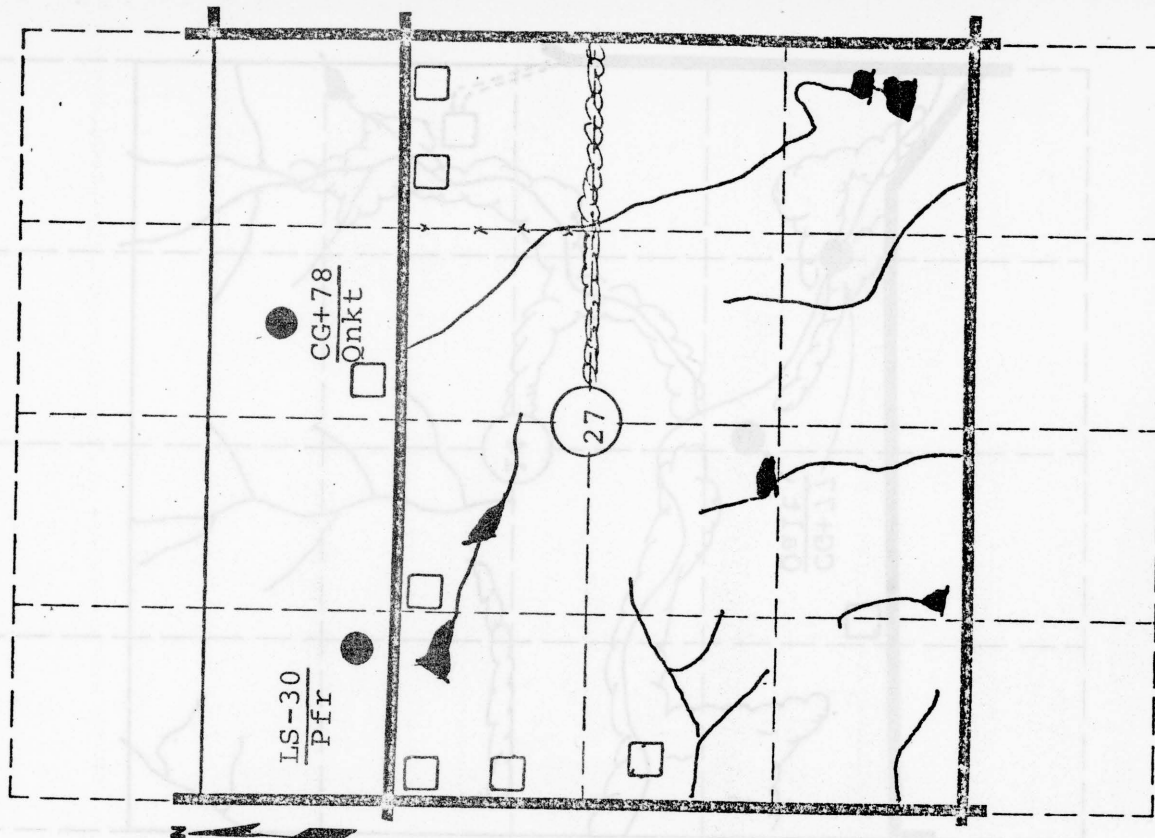
Specific Gravity (Sat.) _____ (Dry) _____

Los Angeles Year 22.7(C)

| | |
|------------|------|
| Absorption | 0.98 |
| Soundness | |

| St. Cu. Ft. | Str. | Ret. to |
|-------------|------|---------|
| | | |

Remarks: For other test information on this site refer to figure 17 in text.



Scale: 1" = $\frac{1}{4}$ Mile

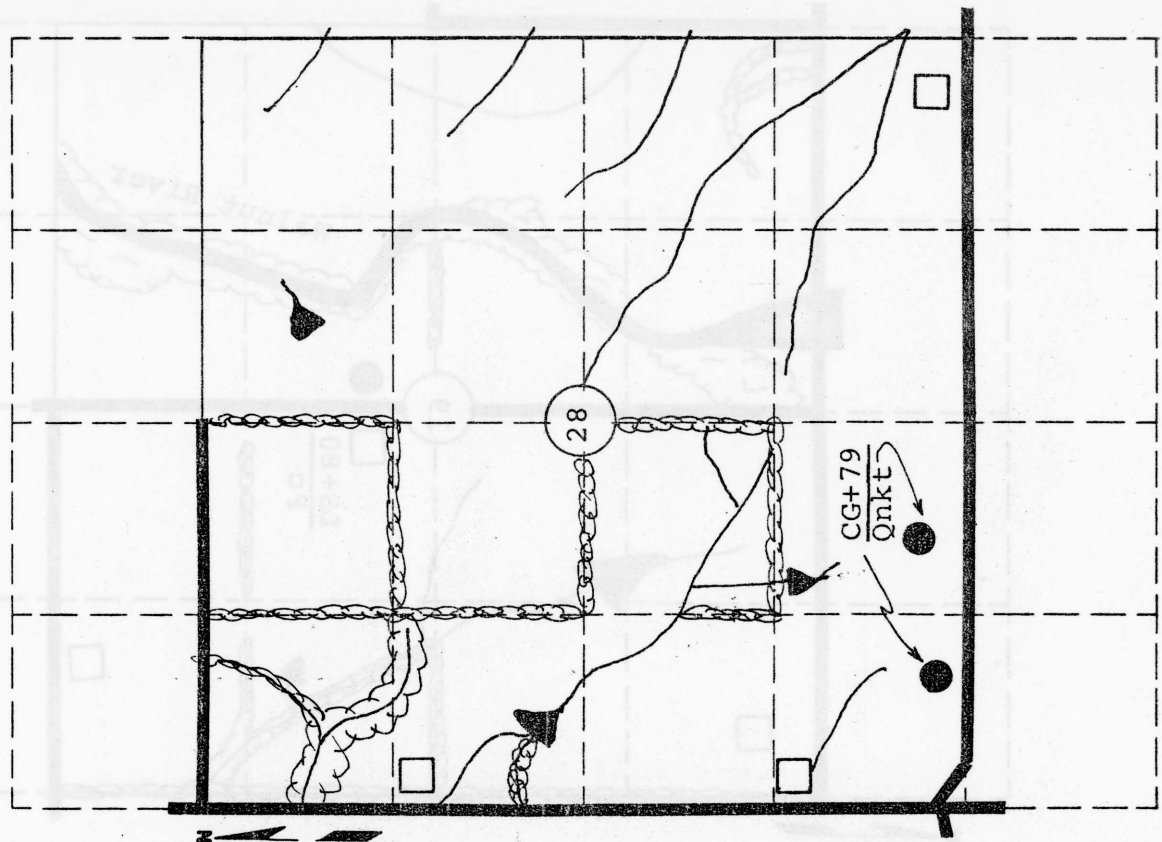
MATERIAL SURVEY REPORT

EXPLORATION DATA

[illegible]

CORRELATION DATA

Quaternary (Nebraskan-Kansan)
Chert Gravel Terrace Deposit
Material reported under SHC Lab. No.
82078
Specific Gravity (Sat.) 2.39 (Dry)
Los Angeles Wear 19.2 (A)
Absorption Soundness 0.99
Wt. Cu.Ft. Str. Ratio
Remarks For other test information on this site refer to figure 17 in text.



Scale: 1" = $\frac{1}{4}$ Mile

MATERIAL SURVEY REPORT

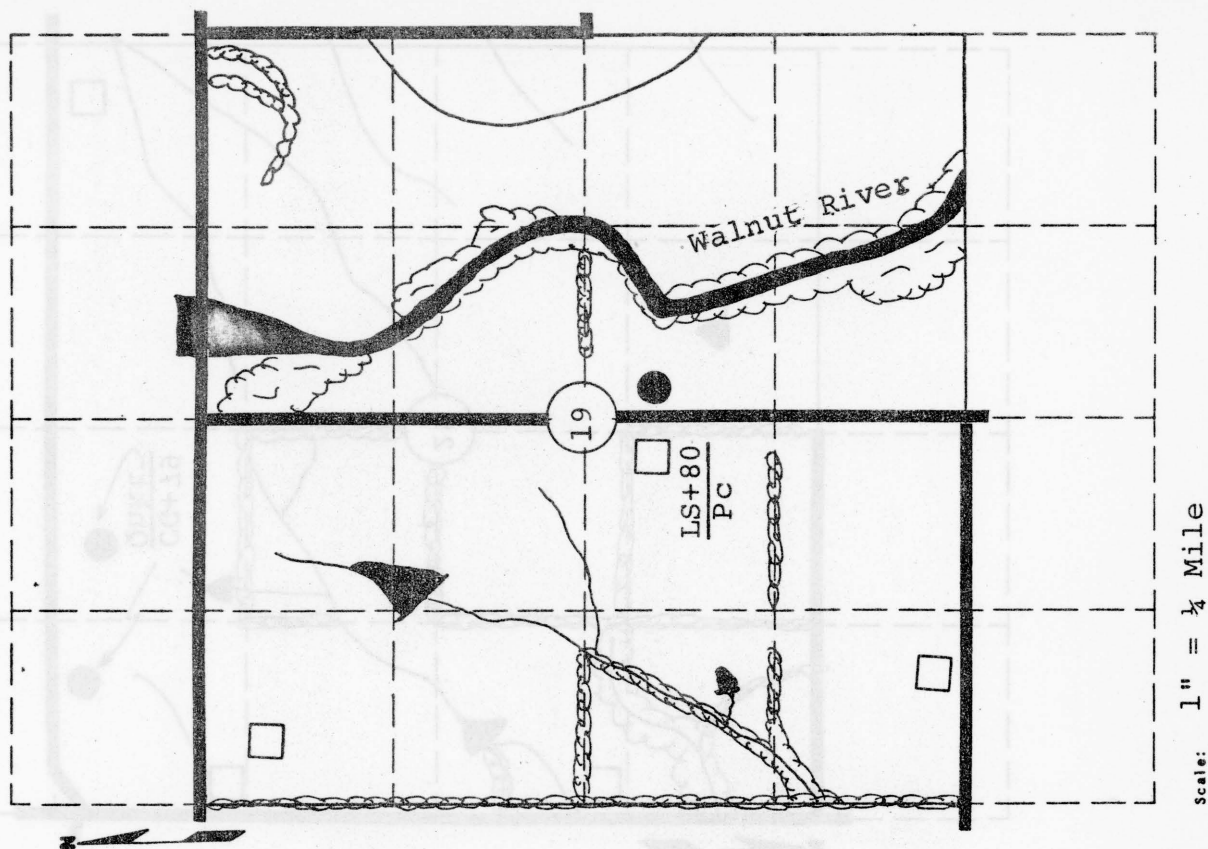
LS+80
Pc
 Site No. _____ Date November, 1968
 Material Limestone County Butler
 Location W $\frac{1}{2}$ E $\frac{1}{2}$ Sec. 19 Twp. 29S Range 4E
 Owner Marshall E. Carr Box 117 Neodesha, Kansas
 Name _____ address _____
 Nature of Deposit Dry Accessibility Good Site Located on Plate VII
 Features of site Open site; sampled

EXPLORATION DATA

[illegible]

CORRELATION DATA

Geological Age Permian
Geological Source Cresswell Limestone Member
Material Similar To Material reported under SHC Lab. No.
68196
Specific Gravity (Sat.) 2.43 (Dry) 2.30
Los Angeles Weir 31.5(B)
Absorption 5.61 Soundness 0.77
Wt. Cu. Ft. _____ Str. Ratio _____
Remarks For information on other test data of this
site refer to figure 16 in text.



MATERIAL SURVEY REPORT

Site No. LS-81 Date November, 1968
PC
 Material Limestone County Butler
 Location SW 1/4 SE 1/4 Sec. 18 Twp. 29S Range 4E
 Owner See Remarks address
 name
 Nature of Deposit Dry Accessibility Good Site Located on Plate VII
 Status of Site Open site; sampled

EXPLORATION DATA

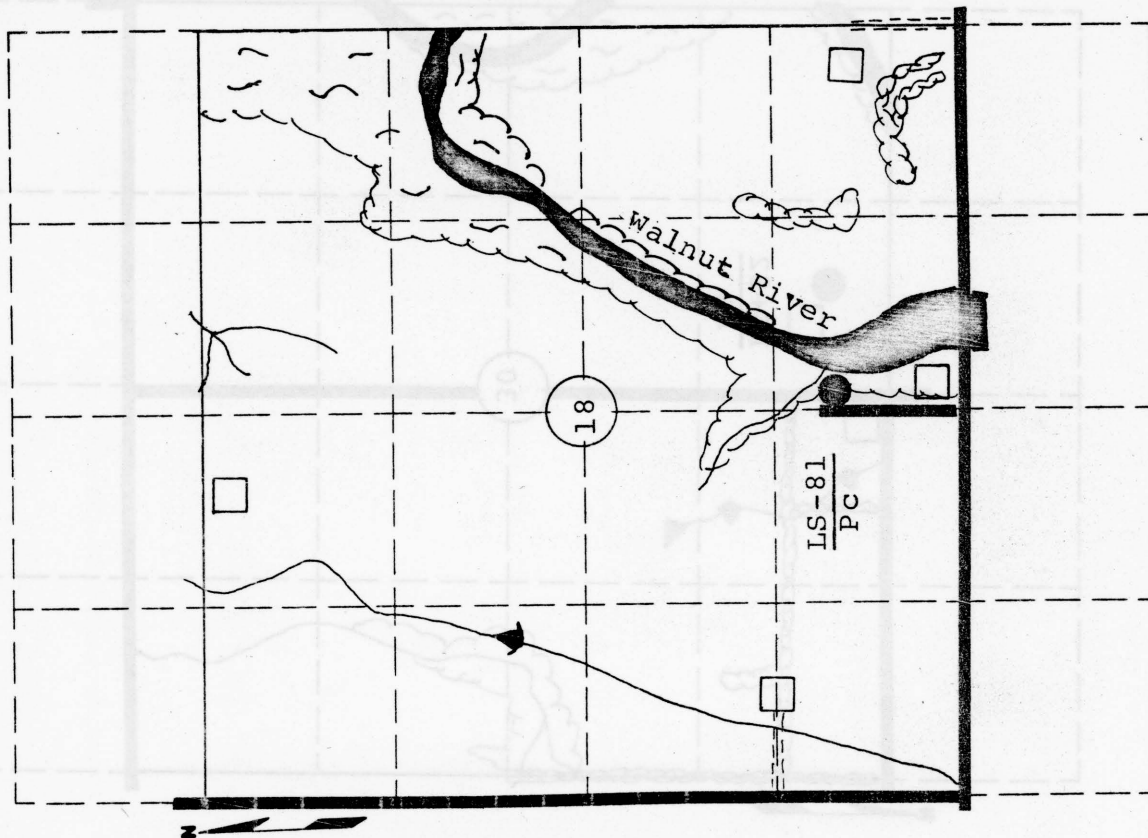
| Test Hole | Material at Bottom of Hole | Depth of over-Burden | Depth of Material | Percent Retained | | | | | | Wash 200 | G.F. | L.L. | P.I. |
|-----------|----------------------------|----------------------|-------------------|------------------|-----|-----|-----|---|----|----------|------|------|------|
| | | | | 1 1/2 | 3/4 | 3/8 | 1/4 | 8 | 16 | 30 | 50 | 100 | |
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CORRELATION DATA

Geological Age Permian
 Geological Source Cresswell Limestone Member
 Material Similar To Material reported under SHC Lab. No. 78809
 Specific Gravity (Sat.) 2.54 (Dry)
 Los Angeles Wear 25.6(A)
 Absorption 3.03 Soundness 0.96
 Wt. Cu.Ft. Str. Ratio

Remarks For other test information on this site refer to figure 16 in text.

Josephine A. Stabler, 3944 N. Athenian
Wichita 4, Kansas



Scale: 1" = 1/4 Mile

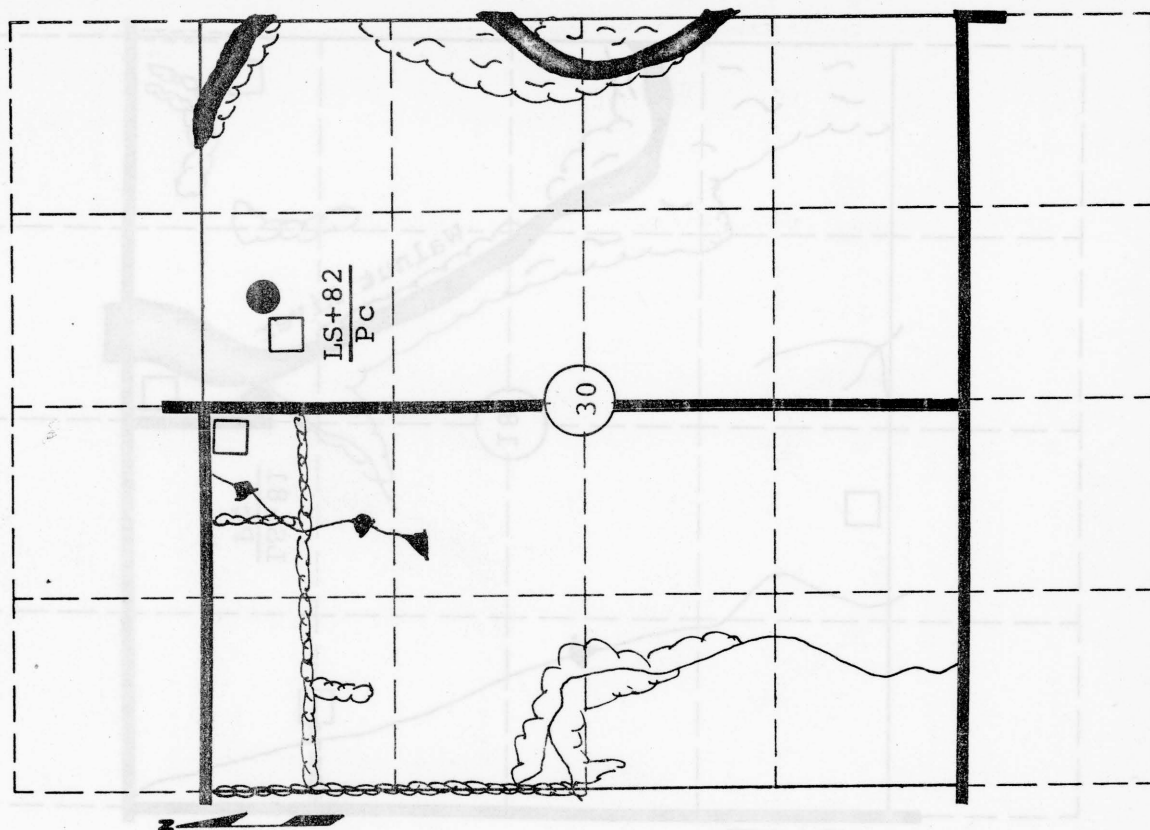
MATERIAL SURVEY REPORT

EXPLORATION DATA

[illegible]

CORRELATION DATA

Geological Age Permian
Geological Source Cresswell Limestone Member
Material Similar To Material reported under SHC Lab. No.
38232
Specific Gravity (Sat.) 2.45 (Dry) 2.37
Los Angeles Wear _____
Absorption 3.61 Soundness _____
Wt. Cu. Ft. _____ Str. Ratio _____
Remarks For other test information on this site refer
to figure 16 in text.



Scale: 1" = $\frac{1}{4}$ Mile

MATERIAL SURVEY REPORT

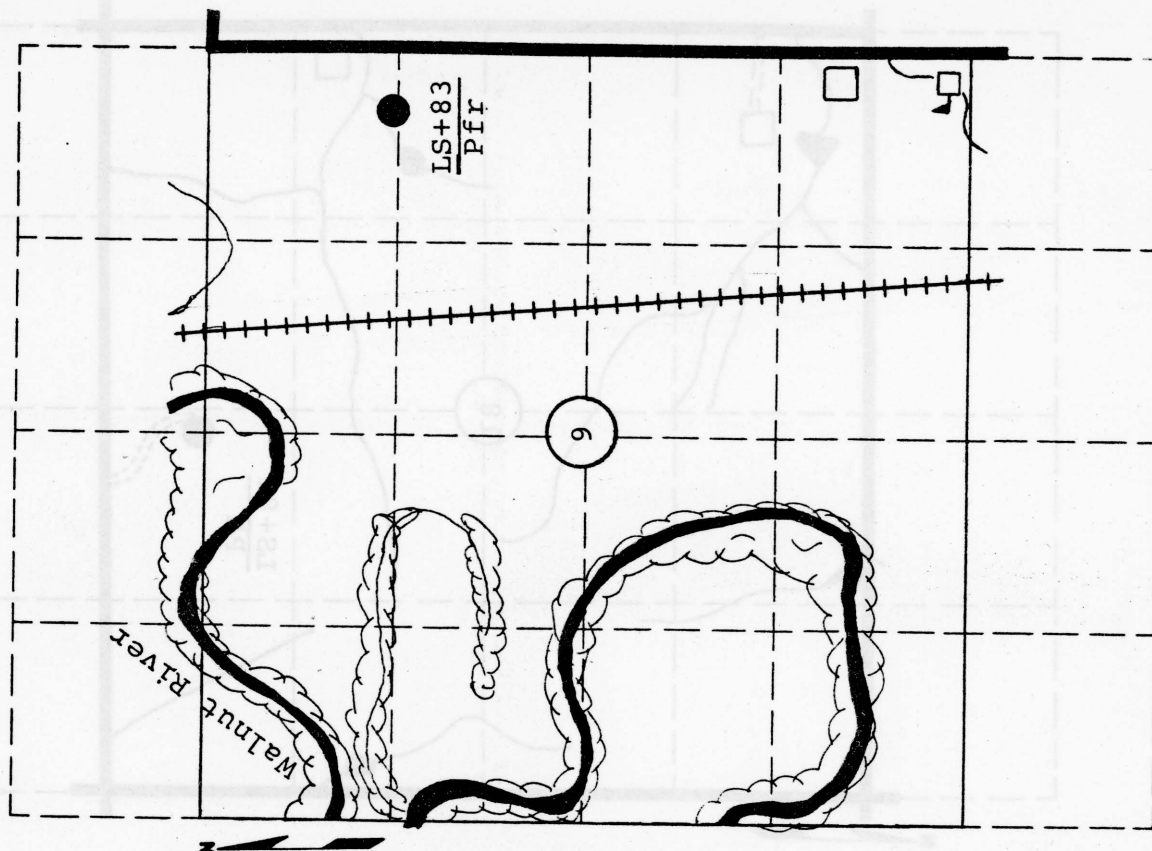
LS+83
Pfr
Site No. _____ Date November, 1968
Material Limestone County Butler
Location NE $\frac{1}{4}$ Sec. 9 Twp. 28S Range 4E
Owner See Remarks name _____ address _____
Nature of Deposit Dry Accessibility Good Site Located on Plate V
Status of Site Open site; sampled

EXPLORATION DATA

[illegible]

CORRELATION DATA

Geological Age Permian
Geological Source Fort Riley Limestone Member
Material Similar To Material reported under SHC Lab. No. 67-529
Specific Gravity (Sat.) 2.29 (Dry) 2.09
Los Angeles Wear 52.5 (B)
Absorption 9.72 Soundness 0.88
Wt. Cu.Ft. _____ Str. Ratio _____
Remarks For other test information on this site refer to figure 16 in text.
William E. Weidensaul, 2044 S. Terrace Dr. Wichita, Kansas



Scale: 1" = $\frac{1}{4}$ Mile

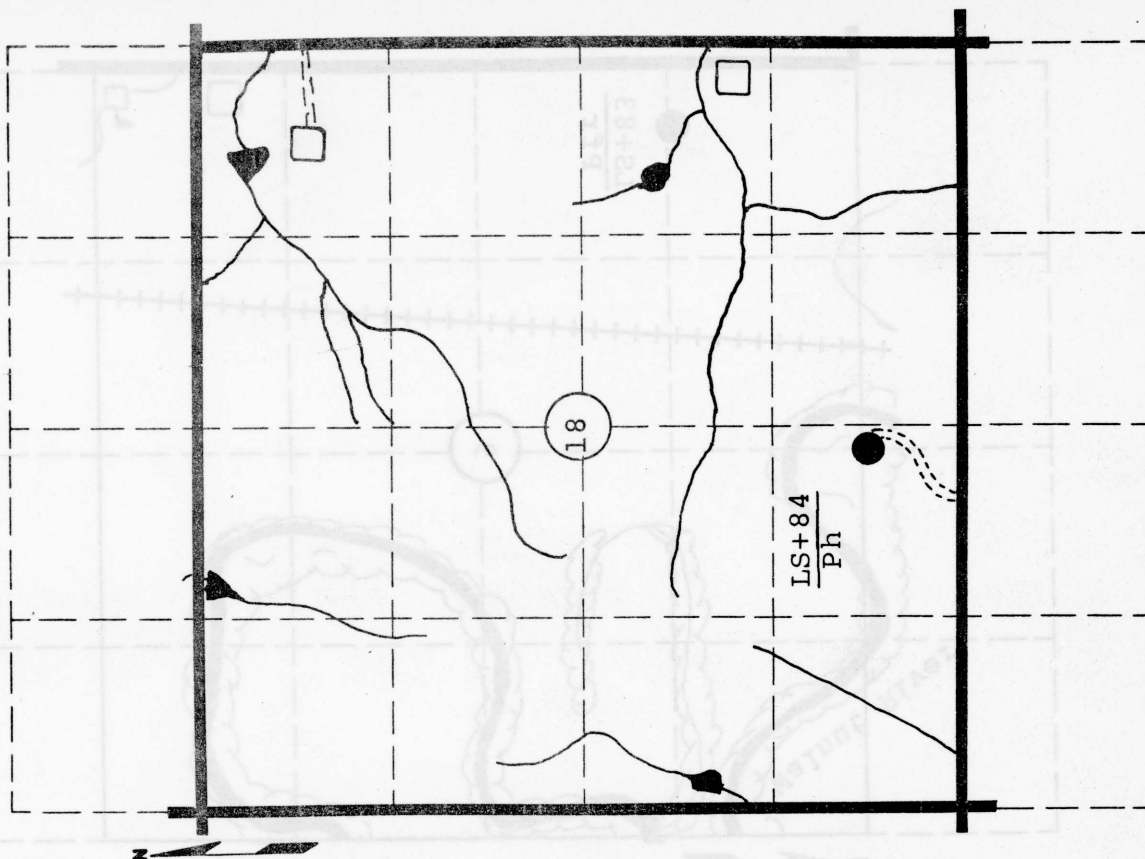
LS+84 _____
Ph _____
 Site No. _____ Date November, 1968
 Material Limestone County _____
 Location SE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 18 Twp. 23S Range 4E
 Owner Johanna Schmidt, 413 Bleckley, Wichita, Kansas
 name _____ address _____
 Nature of Deposit Dry Accessibility Good Site Located on Plate I
 Status of Site Open site; sampled

EXPLORATION DATA

[illegible]

CORRELATION DATA

Geological Age Permian
Geological Source Herington Limestone Member
Material Similar To Material reported under SHC Lab. No. 8999
Specific Gravity (Sat.) 2.53 (Dry) 2.39
Los Angeles Wear 63.8(B)
Absorption 5.77 Soundness 0.73
Wt. Cu.ft. _____ Str. Ratio _____
Remarks For other test information on this site refer figure 16 in text.



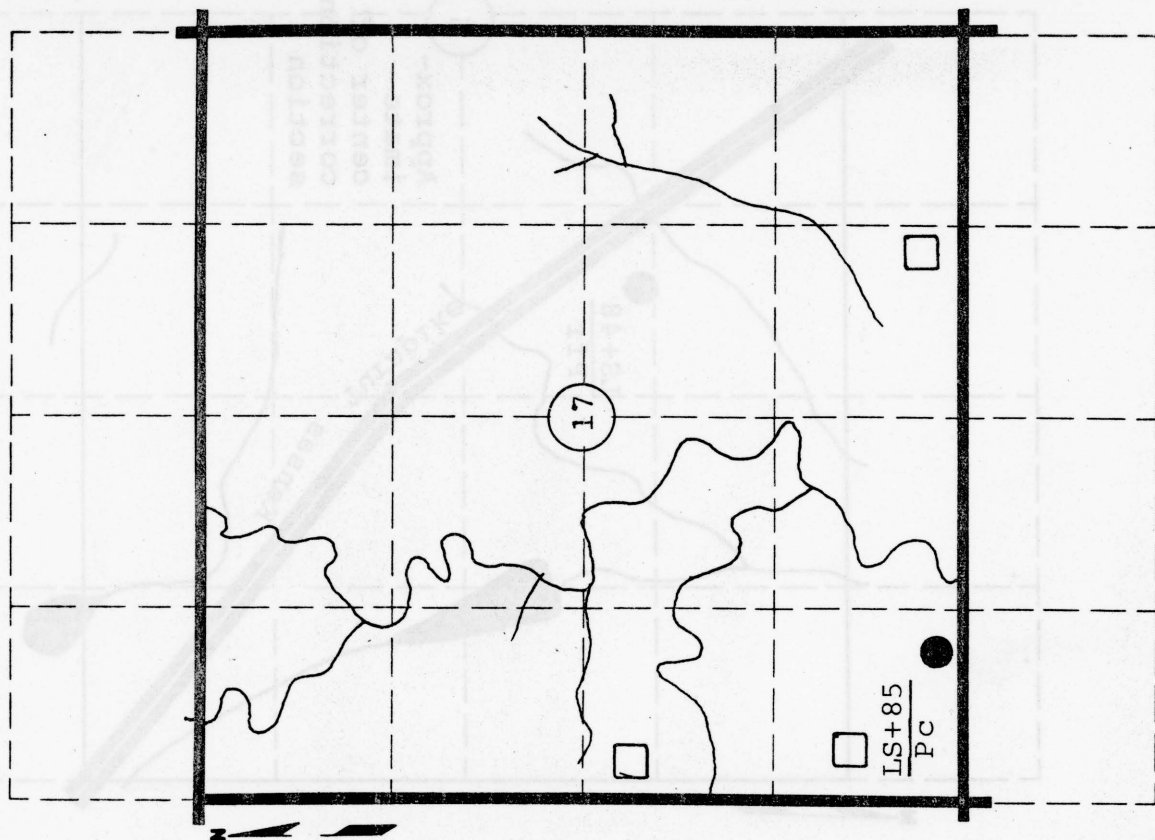
Scale: 1" = $\frac{1}{4}$ Mile

MATERIAL SURVEY REPORT

EXPLORATION DATA

CORRELATION DATA

Scale: 1" = $\frac{1}{4}$ Mile

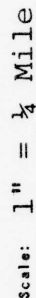


MATERIAL SURVEY REPORT

EXPLORATION DATA

CORRELATION DATA

J. S. Bridwell, Box 1830, 1020 1st Nat. Bank Bldg.
Wichita Falls, Texas



APPENDIX III

The following site data forms are designated as "prospective sites; sampled." The sites described herein are depicted on the county materials maps as a "▼".

LEGEND

----- Trail or lane

———— Road

+ + + + + Railroad

~~~~~ Hedge or trees

~~~~~ Major streams

~~~~~ Intermittent streams

~~~~~ Pond or lake



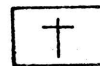
Prospective materials site; sampled



Center of section



Farm site



Cemetery



School



Church



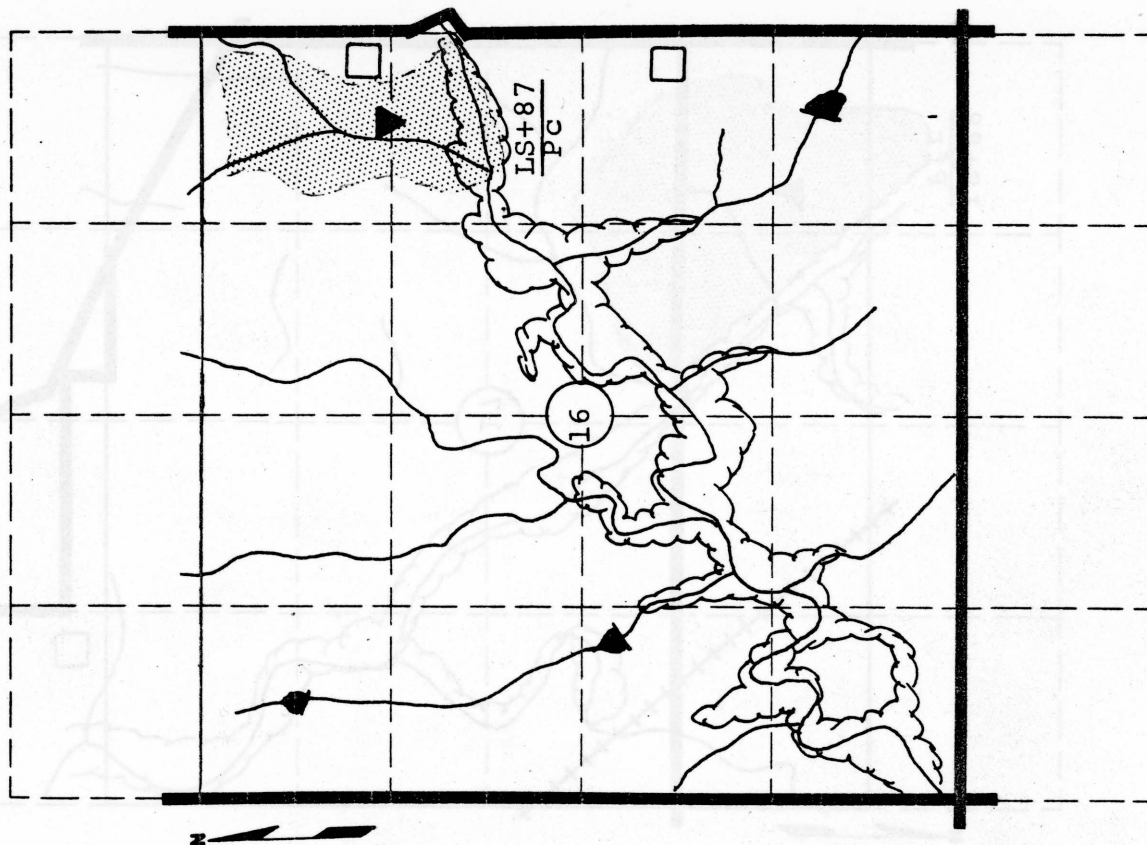
Town or city

MATERIAL SURVEY REPORT

EXPLORATION DATA

CORRELATION DATA

Scale: 1" = $\frac{1}{4}$ Mile



MATERIAL SURVEY REPORT

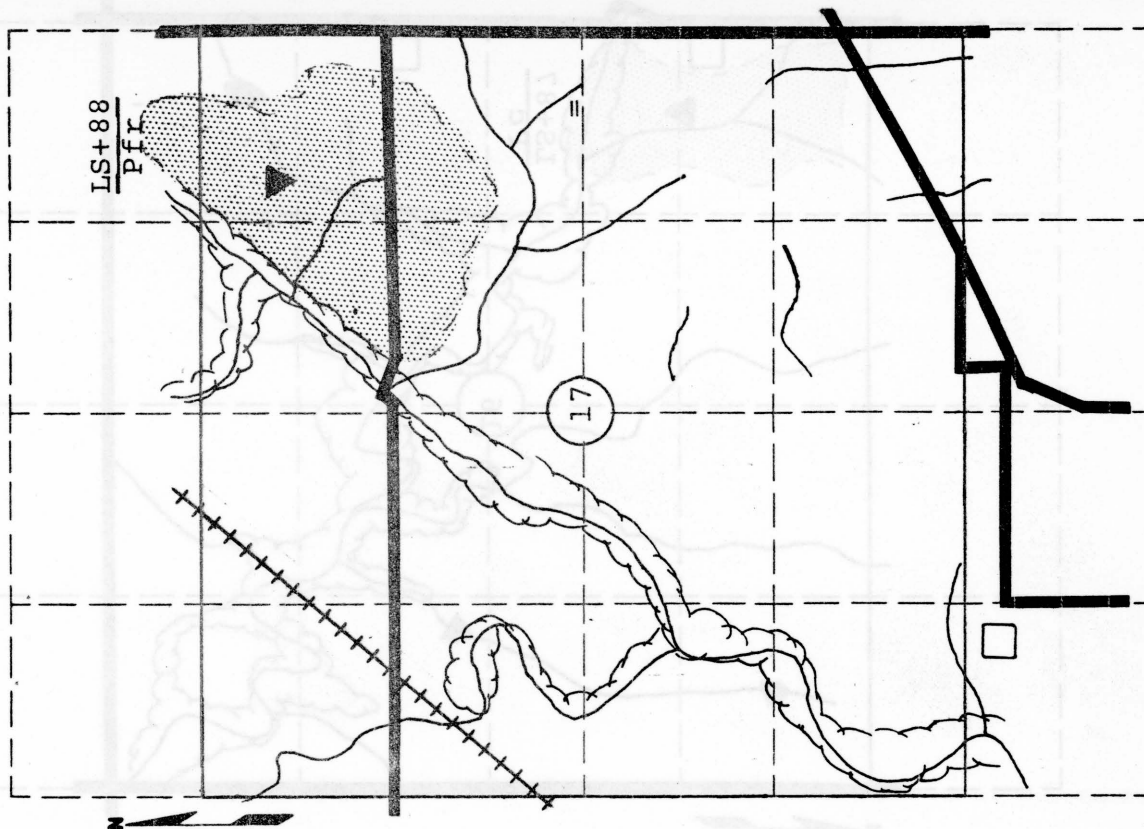
Site No. LS+88 Date November, 1968
Pfr
 Material Limestone County Butler
 Location NE $\frac{1}{4}$ Sec. 17 Twp. 25S Range 6E
 Owner Joseph E. Lewellen R. R. 4 El Dorado, Kansas
address
 Nature of Deposit Dry Accessibility Good Site located on Plate IV
 Status of Site Prospective site; sampled

EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of over-burden | Depth of Material | Percent Retained | | | | | | | | Wash 200 | G. F. | L. L. | P. I. |
|-----------|----------------------------|----------------------|-------------------|------------------|-----|-----|---|---|----|----|----|----------|-------|-------|-------|
| | | | | 1 1/2 | 3/4 | 3/8 | 4 | 8 | 16 | 30 | 50 | | | | |
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CORRELATION DATA

Geological Age Permian
 Geological Source Fort Riley Limestone Member
 Material Similar To Material reported under SHC Lab. No. 61910
 Specific Gravity (Sat.) 2.36 (Dry)
 Los Angeles Wear 43.5(A)
 Absorption 6.55 Soundness 0.84
 Wt. Cu.Ft. Str. Ratio
 Remarks For other test information on this site refer to figure

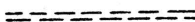
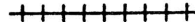
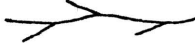


Scale: 1" = 1/4 Mile

APPENDIX IV

The following site data forms are designated as "prospective sites; not sampled." The sites described herein are depicted on the county materials maps as a "●".

LEGEND

| | | | |
|---|----------------------|--|---|
|  | Trail or lane |  | Prospective materials site; not sampled |
|  | Road |  | Center of section |
|  | Railroad |  | Farm site |
|  | Hedge or trees |  | Cemetery |
|  | Major streams |  | School |
|  | Intermittent streams |  | Church |
|  | Pond or lake |  | Town or city |

MATERIAL SURVEY REPORT

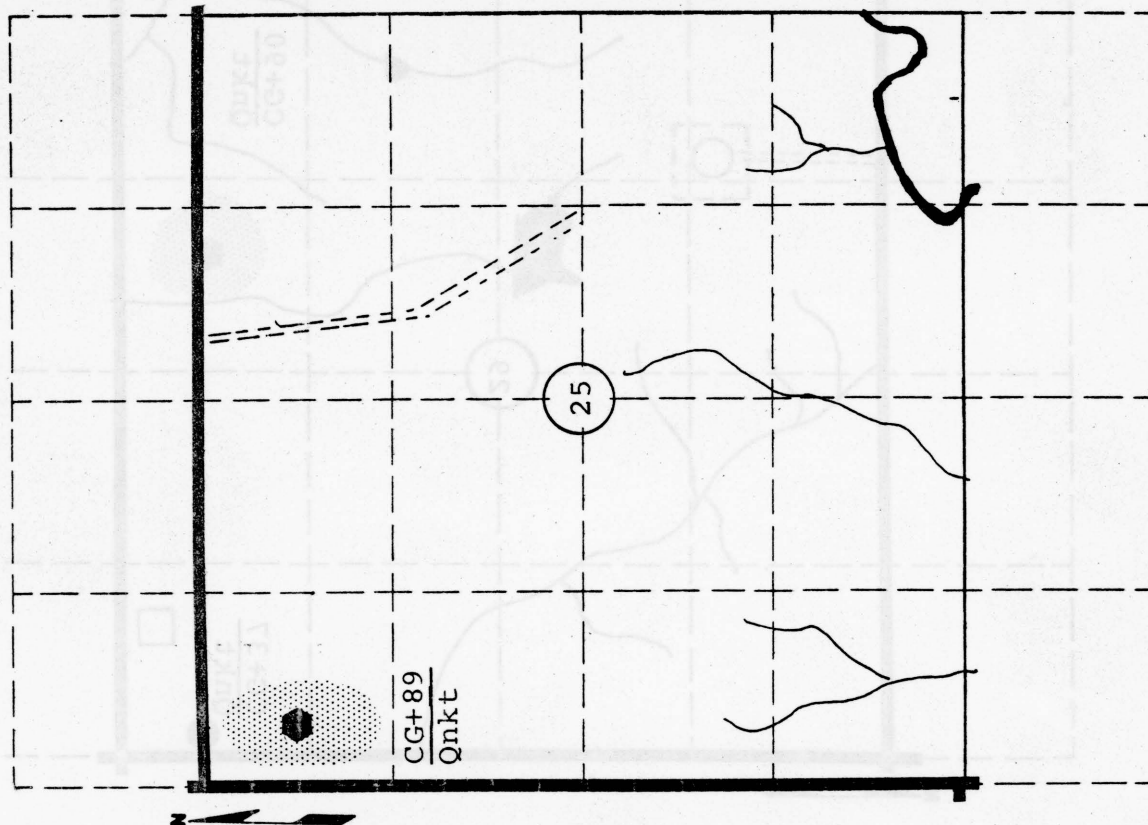
CG+89 _____
Qnkt _____
 Site No. _____ Date November, 1968
 Material Chert Gravel County Butler
 Location NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 25 Twp. 29S Range 5E
 Owner Robert J. Little Douglass, Kansas
 name address
 Nature of Deposit Dry Accessibility Good Site Located on Plate VII
 Status of Site Prospective site; not sampled

EXPLORATION DATA

[illegible]

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 _____



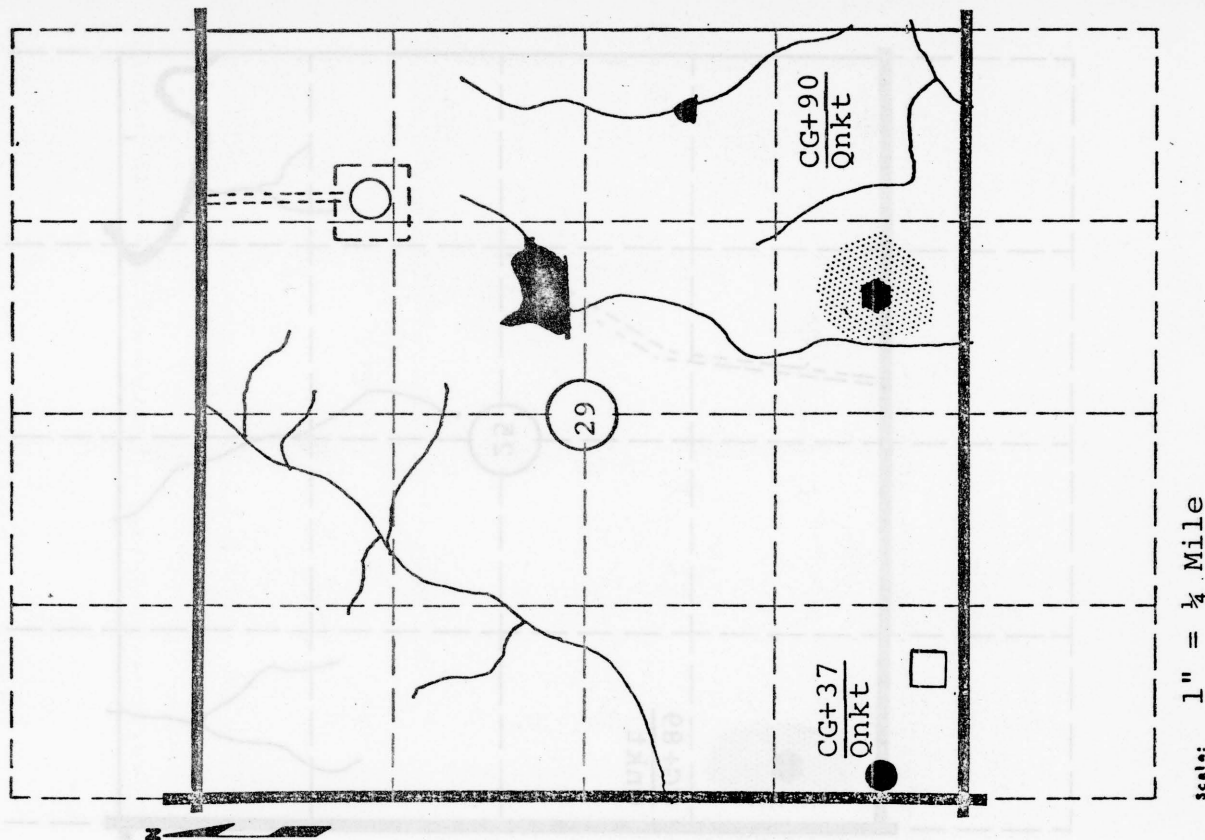
Scale: 1" = $\frac{1}{4}$ Mile

EXPLORATION DATA

[illegible]

CORRELATION DATA

Geological Age Quaternary (Nebraskan-Kansan)
Geological Source Chert Gravel Terrace Deposit
Material Similar To _____
Specific Gravity (Sat.) (Dry)
Loc. Los Angeles Near
Absorption _____ Soundness _____
Wt. Cu. Ft. _____ Str. Ratio _____
Remarks W. L. Zink, & Jean Faulkender
4500 Thompson, Oklahoma City, Oklahoma

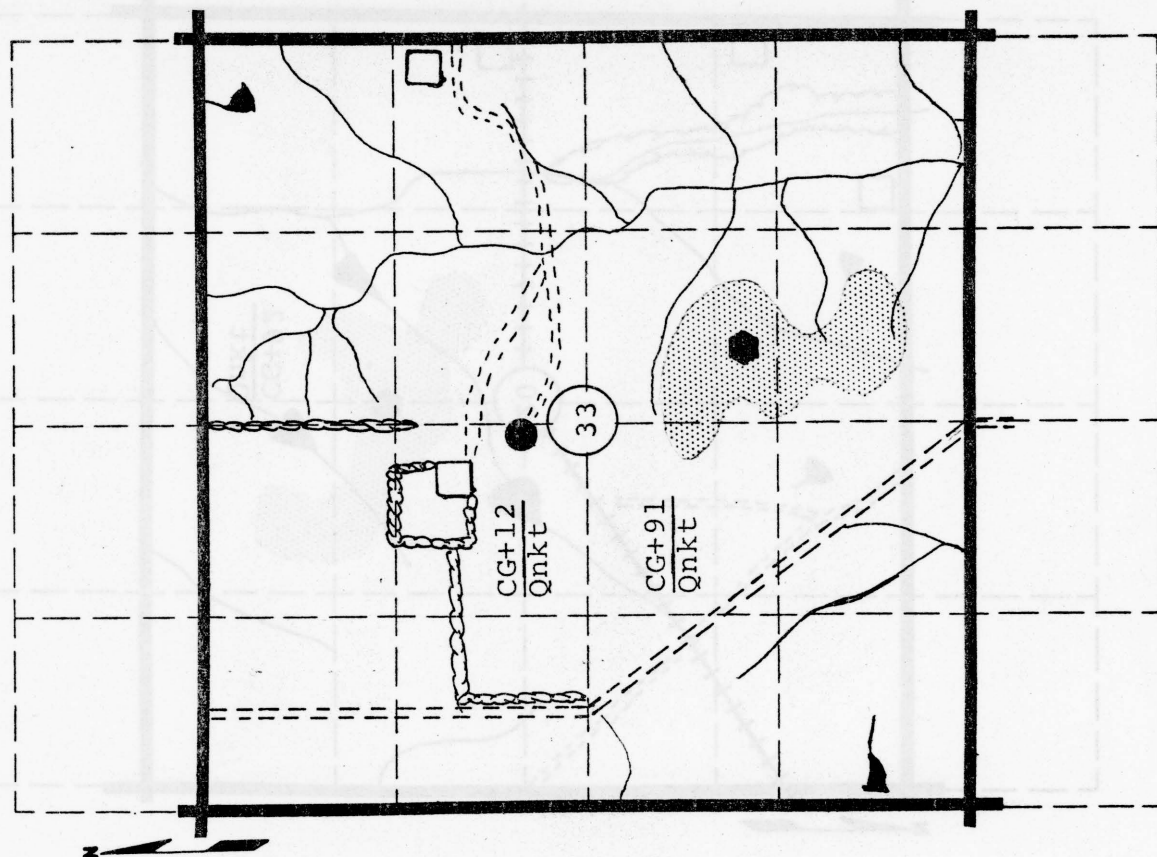


EXPLORATION DATA

[illegible]

CORRELATION DATA

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



Scale: 1" = $\frac{1}{4}$ Mile

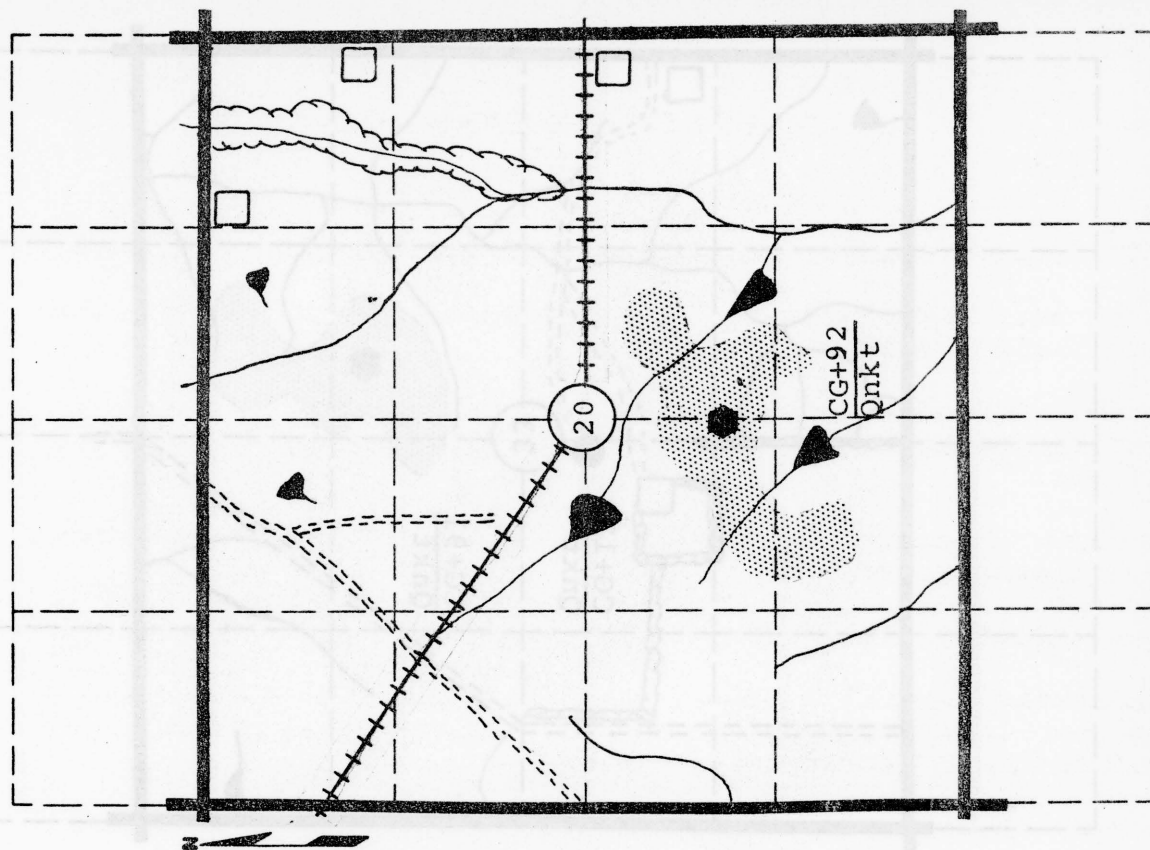
MATERIAL SURVEY REPORT

EXPLORATION DATA

[illegible]

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 SE 1/4 Mable A. Henry, R. R. 2, Box 5, Leon, Kansas
SW 1/4 Claude K. Gilliland, Leon, Kansas



scale: 1" = $\frac{1}{4}$ Mile

GLOSSARY OF SIGNIFICANT TERMS

A.A.S.H.O.: American Association of State Highway Officials.

Absorption: Determined by tests performed in accordance with A.A.S.H.O. designation T 85.

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

Alluvium: A deposit of clay, silt, sand, or gravel laid down by flowing water.

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

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

Degrade: Lowering of the surface of the land by erosive processes, especially by the removal of material through erosion and transportation by flowing water.

Geologic period: A unit of geologic time, Mississippian, Pennsylvanian, and Permian are examples.

Geologic unit: This term is used in this report to denote:
1. a geologic formation, 2. a geologic member, and 3. an unconsolidated deposit of Pleistocene age.

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

Igneous rocks: Rocks produced under conditions involving great heat such as rocks crystallized from a molten material.

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

Liquid limit: Determined by tests performed in accordance with A.A.S.H.O. designation T 96 as modified by section Y1-14 of the State Highway Commission of Kansas Standard Specifications, 1966 edition.

Material source bed: A particular geologic unit, consolidated or unconsolidated, that provides material for construction purposes.

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

Open materials site: A pit or quarry which has produced or is producing material suitable for some phase of road construction.

Plastic index: Determined by tests performed in accordance with section Y1-18 of the State Highway Commission of Kansas Standard Specifications, 1966 edition.

Pleistocene Series: Deposits laid down during the Quaternary Period.

Prospective materials site: A geographical location where the geologic conditions are favorable for the discovery of construction material.

Sink: Sunken area which appears on the ground surface which has resulted from solution and collapse in carbonate rock.

Soundness: Determined by tests performed in accordance with section Y1-15 of the State Highway Commission of Kansas Standard Specifications, 1966 edition.

Specific gravity: Determined by tests performed in accordance with A.A.S.H.O. designation T 84 for sand and gravel and T 85 for crushed stone.

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

Unconsolidated deposits: Deposits of clay, silt, sand, or gravel. These deposits may be laid down by wind or water action.

Wash (Material passing the No. 200 sieve) Determined by tests performed in accordance with A.A.S.H.O. designation T 11.

Weight per cubic foot: Determined by tests performed in accordance with A.A.S.H.O. designation T 19-45.

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