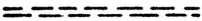



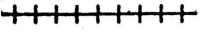





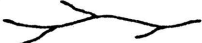





APPENDIX I

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		Open 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

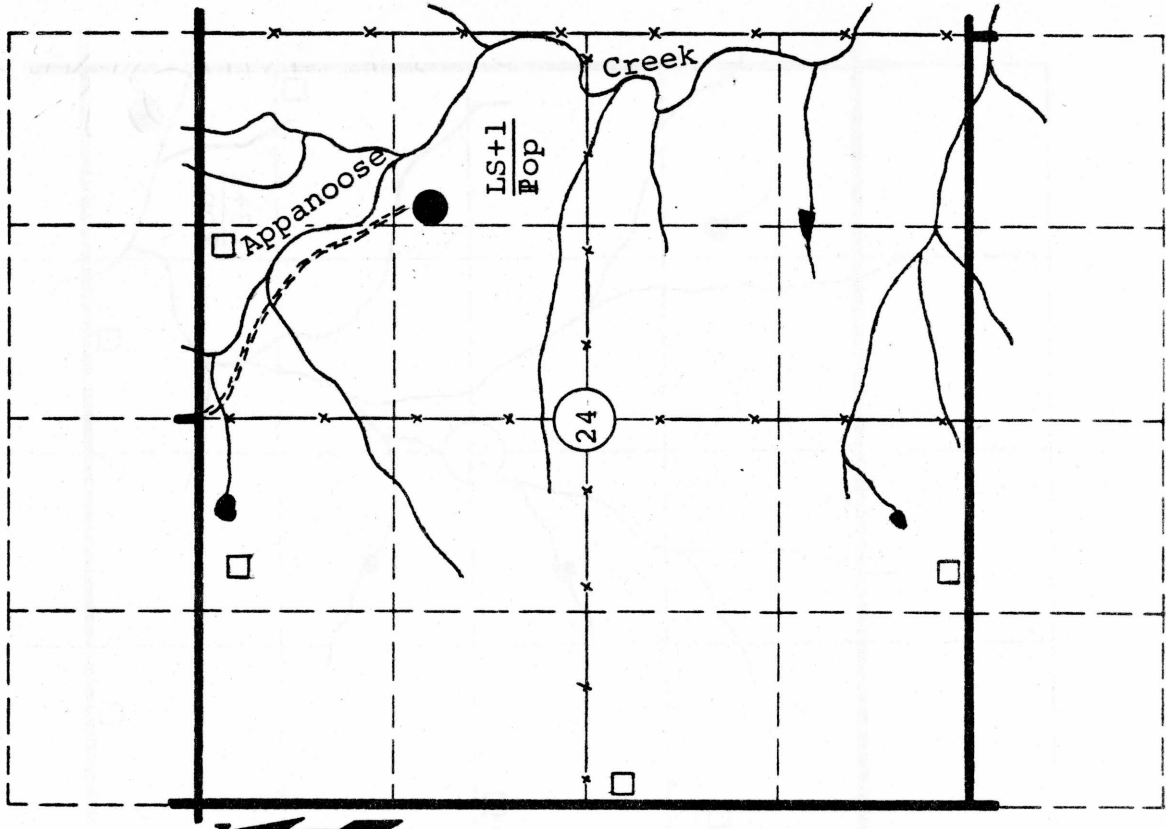
Site No. LS+1 Date August, 1967
Pop
 Material Limestone County Franklin
 Location NE 1/4 Sec. 24 Twp. 15S Range 17E
 Owner Jo. Mesenhimer Overbrook, Kansas
 Nature of Deposit Dry Accessibility Fair Site Located on Plate I
 Status of Site Open site; not sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of overburden	Depth of Material	Percent Retained						G.F.	L.L.	P.I.					
				1 1/2	3/4	3/8	4	8	16				30	50	100	Mesh 200	

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Plattsmouth Limestone
 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

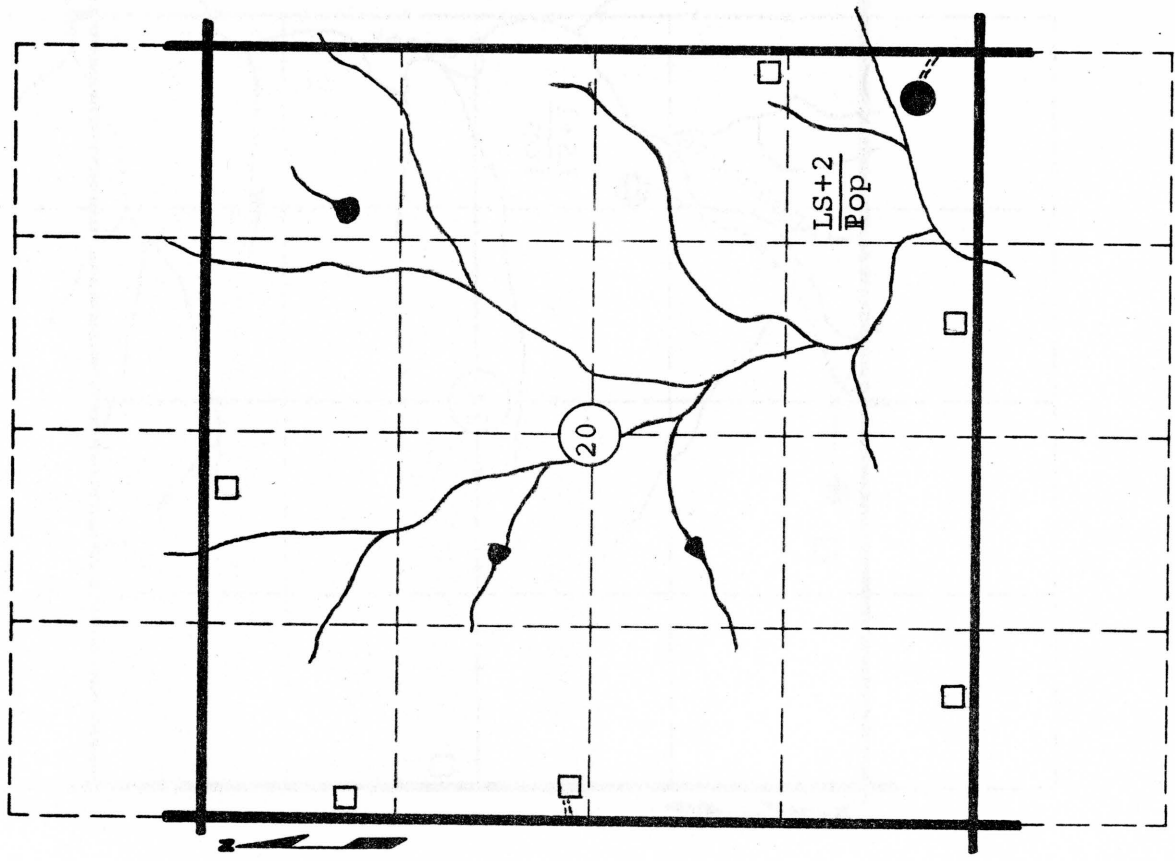
Site No. LS+2 Date August, 1967
Pop
 Material Limestone County Franklin
 Location SE 1/4 Sec. 20 Twp. 15S Range 18E
 Owner R. L. Smay 833 S. Oak Ottawa, Kansas
 name address
 Nature of Deposit DRY Accessibility Fair Site Located on Plate I
 Status of Site Open site; not sampled

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Plattsmouth Limestone
 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

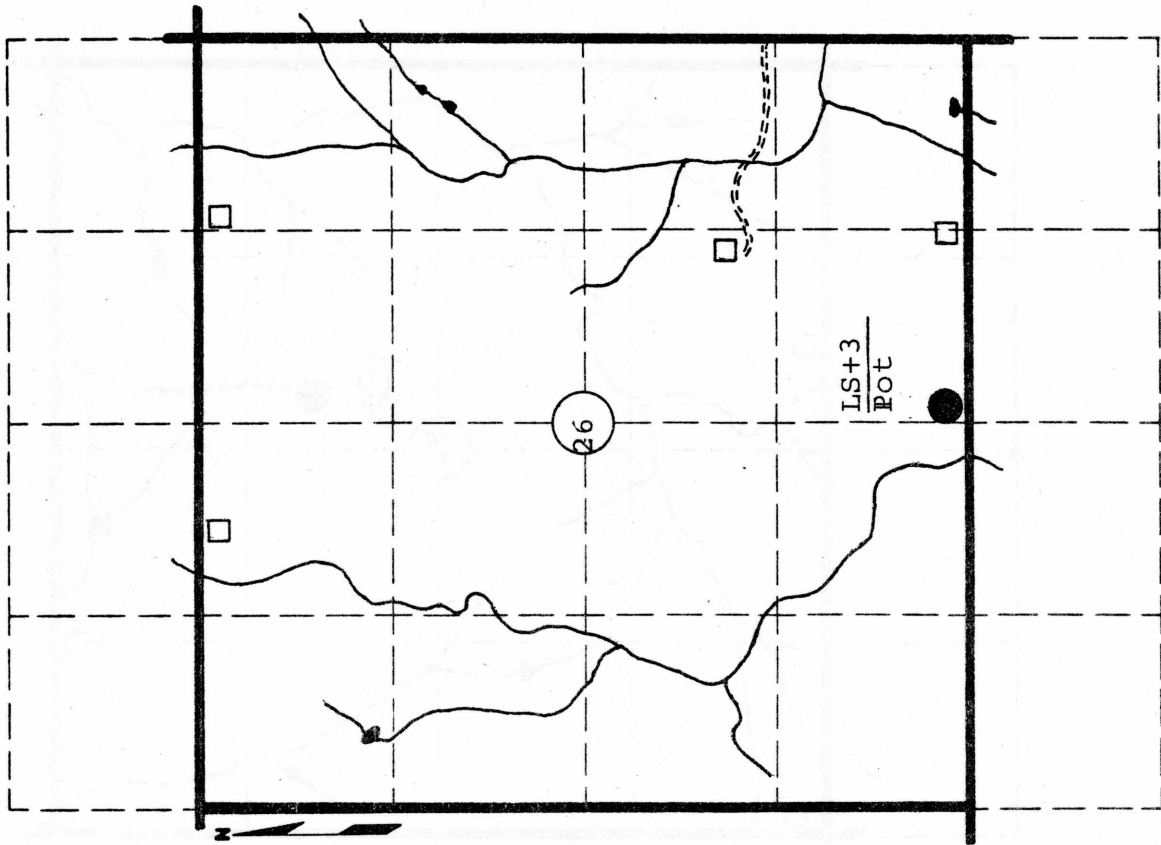
Site No. LS+3
Pot
 Material Limestone
 Location SE 1/4 Sec. 26 Twp. 16S Range 17E
 Owner Daniel Ezra Johnson R.R. 1, Pomona, Kansas
 name address
 Nature of Deposit Dry Accessibility Fair Site Located on Plate I
 Status of Site Open site; not sampled

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Toronto Limestone
 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

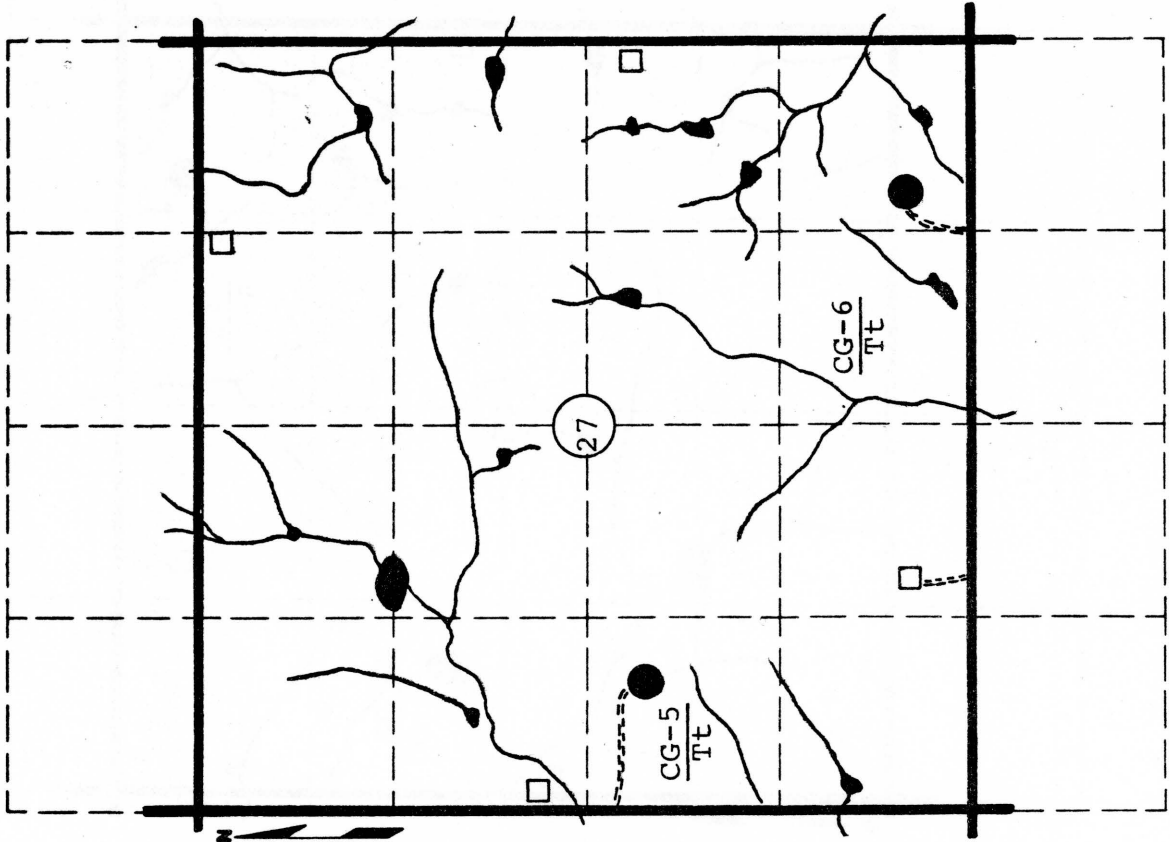
Site No. CG-5
Tt
 Material Chert Gravel
 Location SW 1/4 Sec. 27 Twp. 16S Range 18E
 Owner Gertrude B. Carpenter RFD 2, Pomona, Kansas
 address
 Nature of Deposit Dry Accessibility Fair Site Located on Plate I
 Status of Site Open site; not sampled

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.
				1/2	3/4	3/8	1/4	3/16	1/8	3/32				

CORRELATION DATA

Geological Age Pliocene
 Geological Source Tertiary Terrace
 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

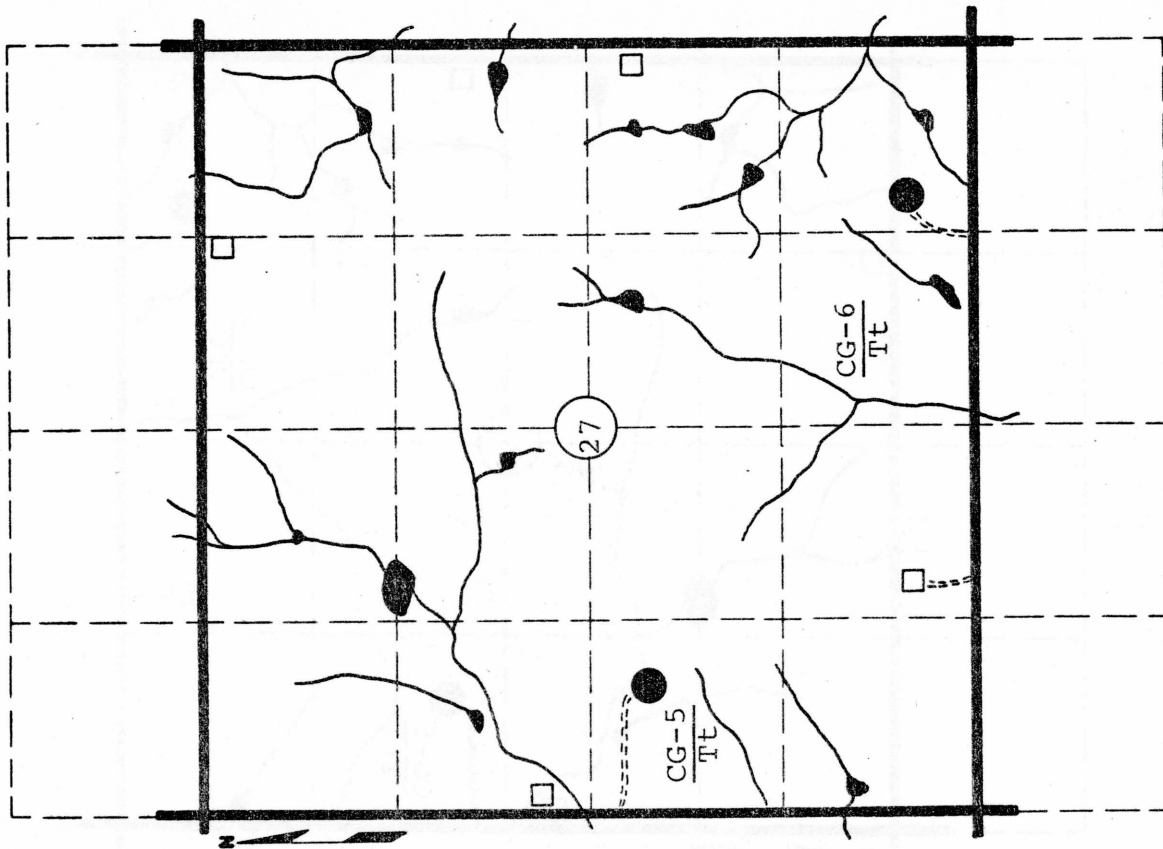
Site No. CG-6 / Tt Date August, 1967
 Material Chert Gravel County Franklin
 Location SE 1/4 Sec. 27 Twp. 16S Range 18E
 Owner Wilbur C. Humphrey RFD 2, Pomona, Kansas
 Nature of Deposit DRY accessibility Fair Site Located on Plate I
 Status of Site Open site; not sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of Material	Percent Retained					Wash 200	G.F.	L.L.	P.I.
			1/2	3/4	4	8	16				

CORRELATION DATA

Geological Age Pliocene
 Geological Source Tertiary Terrace
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Near _____
 Absorption _____ Soundness _____
 Wt. Cu.Ft. _____ Str. Ratio _____
 Remarks _____



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

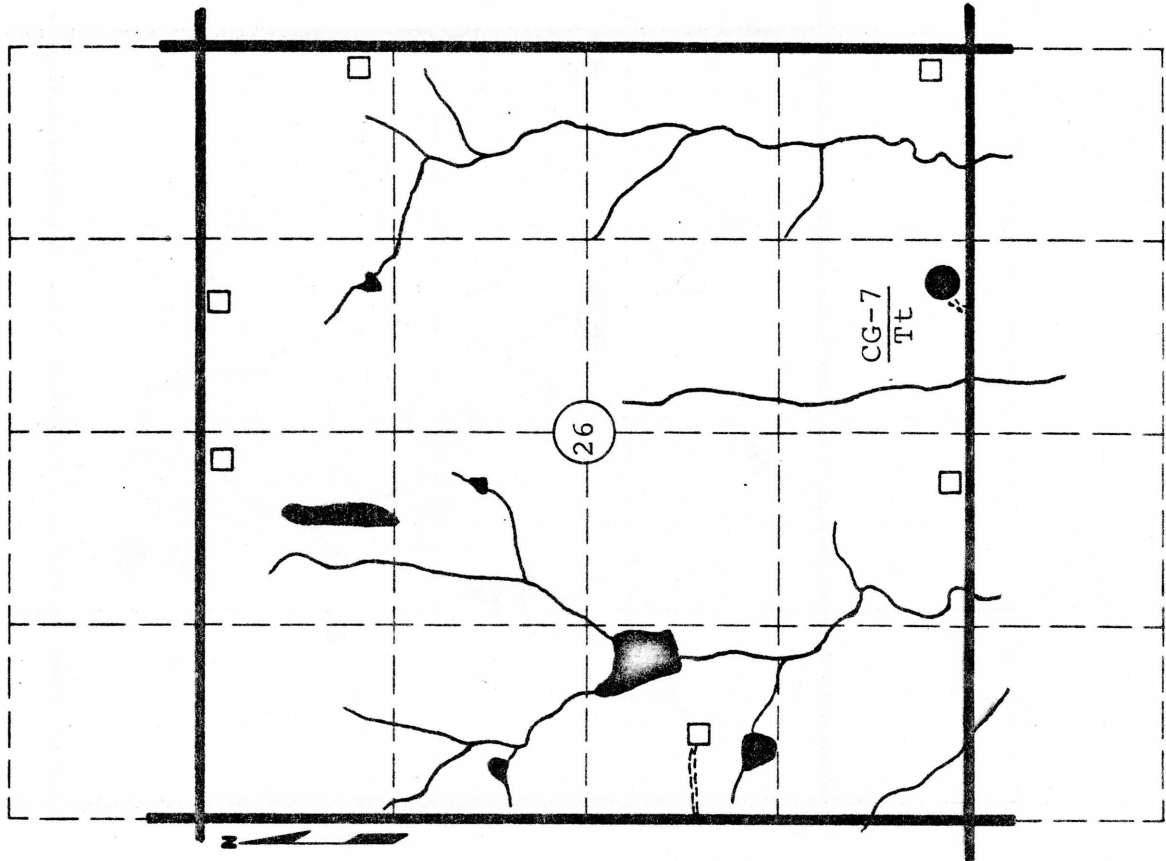
Site No. CG-7 Date August, 1967
Tt
 Material Chert Gravel County Franklin
 Location SE 1/4 Sec. 26 Twp. 16S Range 18E
 Owner Chester D. Burgess RFD 4, Ottawa, Kansas
 name address
 Nature of Deposit DRY Accessibility Good Site located on Plate I
 Status of Site Open site; not sampled

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	100

CORRELATION DATA

Geological Age Pliocene
 Geological Source Tertiary Terrace
 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

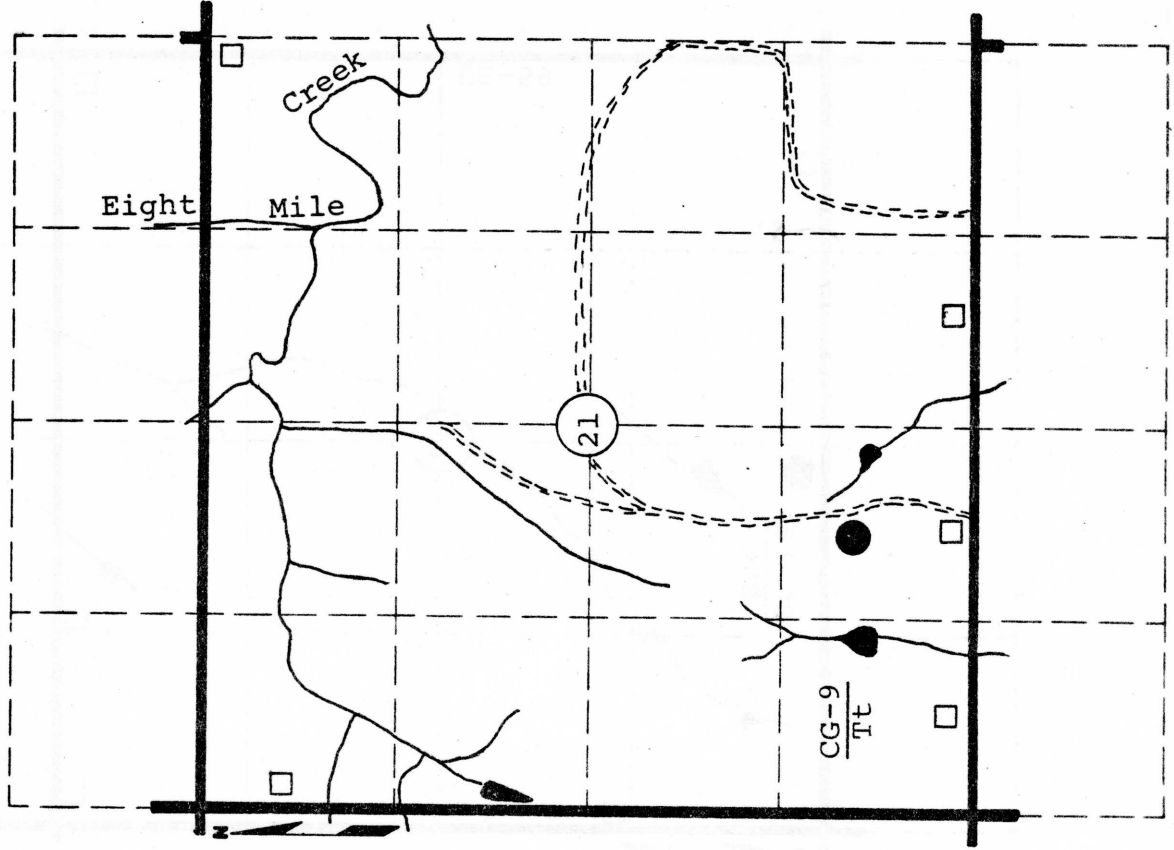
Site No. CG-9 Date August, 1967
Tt
 Material Chert Gravel County Franklin
 Location SW $\frac{1}{4}$ Sec. 21 Twp. 16S Range 19E
 Owner Lewis P. Stewart RFD 3, Ottawa, Kansas
 name address
 Nature of Deposit DRY Accessibility Good Site Located on Plate I
 Status of Site Open site; not sampled

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.
				1/2	3/4	1	16	30	50				

CORRELATION DATA

Geological Age Pliocene
 Geological Source Tertiary Terrace
 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

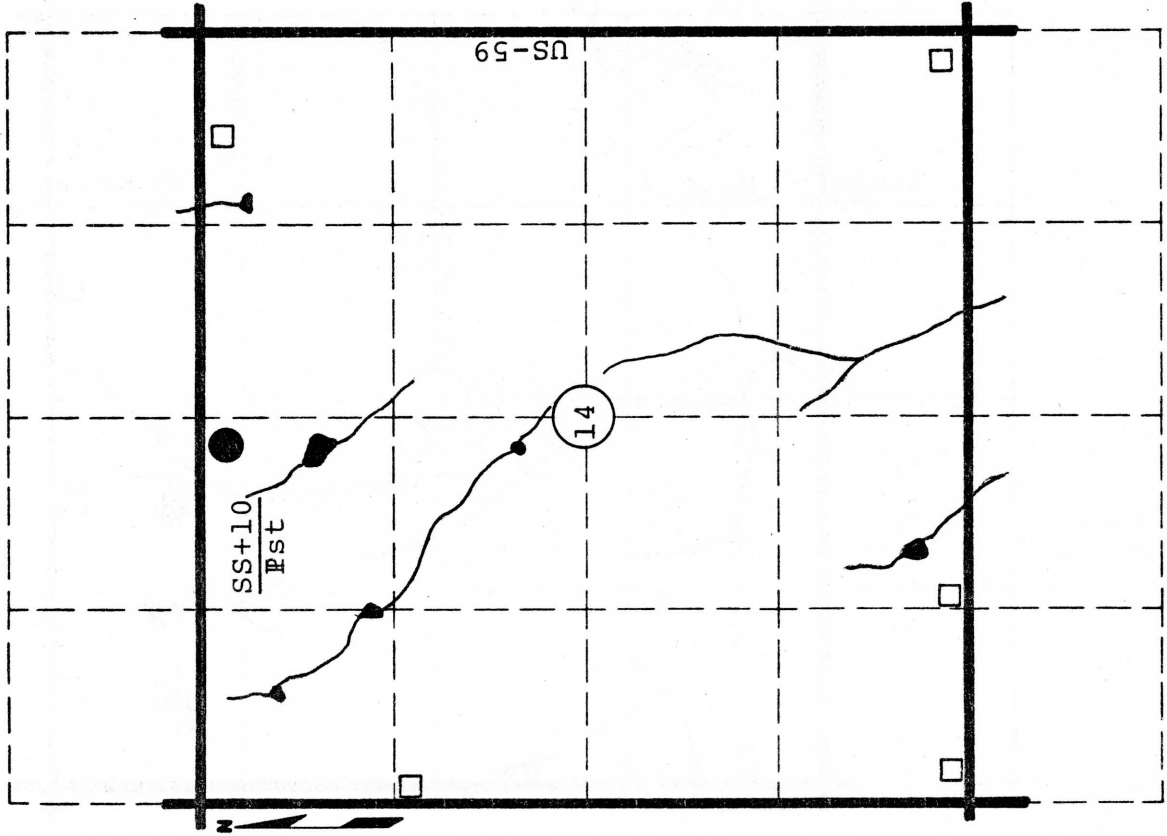
Site No. SS+10 Date August, 1967
Pst
 Material Sandstone County Franklin
 Location NE 1/4 NW 1/4 Sec. 14 Twp. 16S Range 19E
 Owner Verne Robinson RFD 2, Ottawa, Kansas
 Name address
 Nature of Deposit Dry Accessibility Good Site Located on Plate II
 Status of Site Open site; not sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of over-Burden	Depth of Material	Percent Retained							Wash 200	L.L.	P.I.		
				1/2	3/4	1	3/8	4	6	16				30	50

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Stranger Formation
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu.Ft. _____ Str. Ratio _____
 Remarks _____



MATERIAL SURVEY REPORT

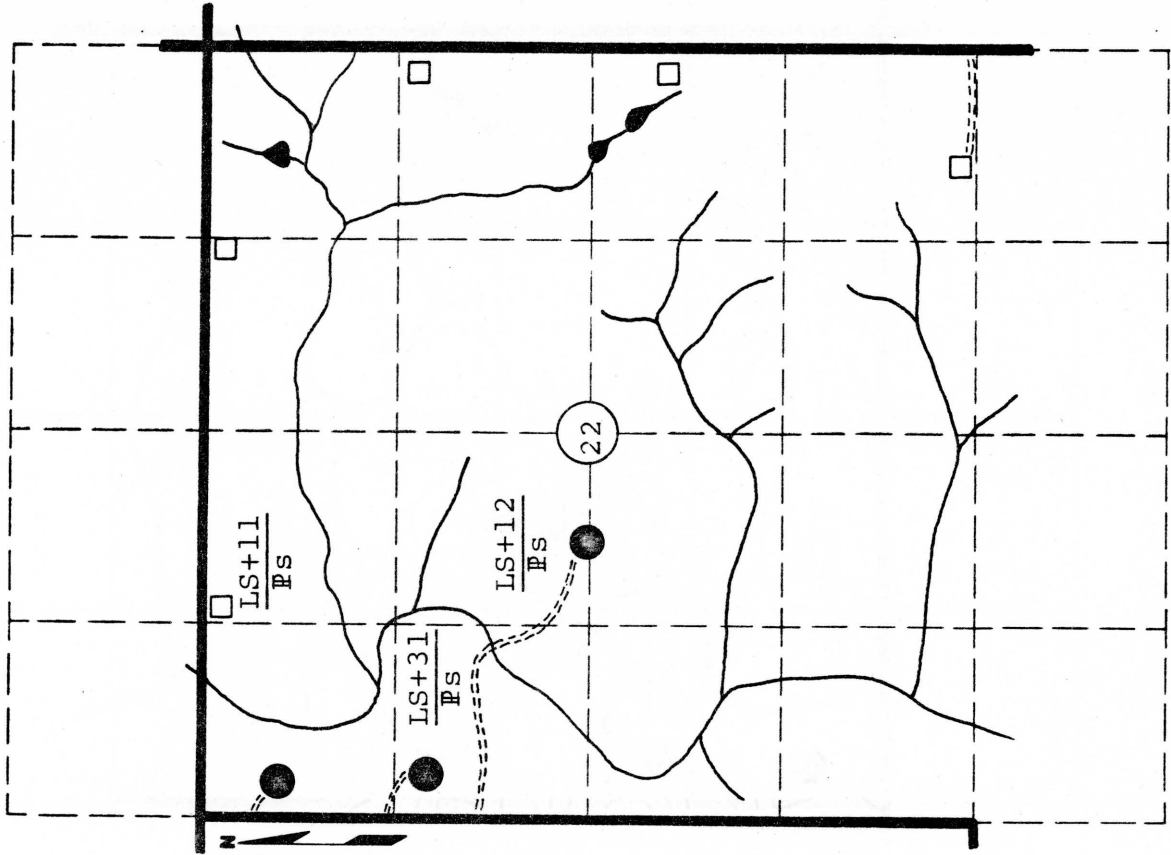
Site No. LS+12 Date August, 1967
PS
 Material Limestone County Franklin
 Location SE 1/4 NW 1/4 Sec. 22 Twp. 16S Range 20E
 Owner William H. Rice R.R. 2, Ottawa, Kansas
 name address
 Nature of Deposit Dry Accessibility Good Site Located on Plate II
 Status of Site Open site; not sampled

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Stanton Formation (Stoner Limestone)
 Material Similar to Material produced at site LS+31
 Specific Gravity (sat.) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu.Ft. _____ Str. Ratio _____
 Remarks _____



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

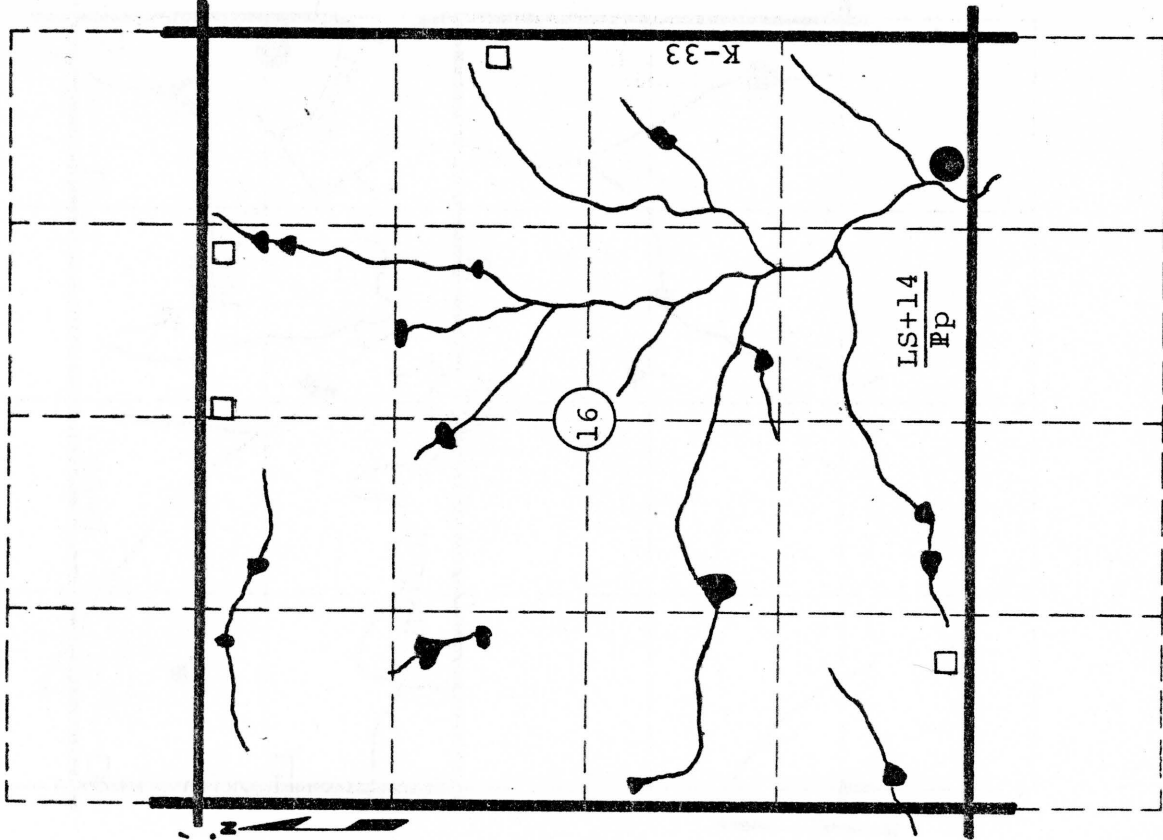
Site No. LS+14 Date August, 1967
PP
 Material Limestone county Franklin
 Location SE 1/4 Sec. 16 Twp. 16S Range 21E
 Owner Ruth Fassnacht 7010 W. 69th Terrace, Overland Park, Kans.
 Name Fair address II
 Nature of Deposit Dry Accessibility Fair Site Located on Plate II
 Status of Site Open site; not sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of Material	Percent Retained						Wash 200	G.F.	L.L.	P.I.
			1 1/2	3/4	3/8	1/8	30	50				

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Plattsburg Limestone
 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

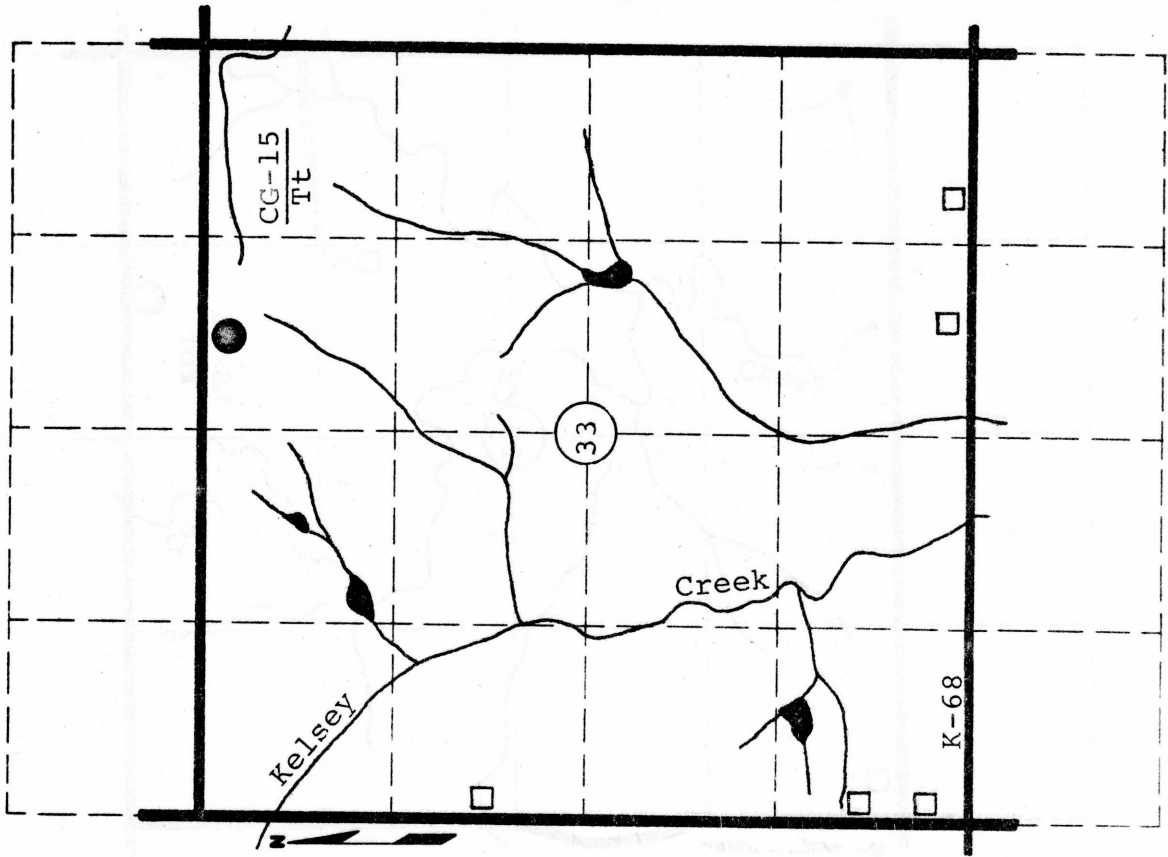
Site No. CG-15
Tt
 Date August, 1967
 Material Chert Gravel County Franklin
 Location NW 1/4 NE 1/4 Sec. 33 Twp. 16S Range 18E
 Owner J. C. Briles R.R. 2, Pomona, Kansas
 name address
 Nature of Deposit Dry Accessibility Good Site Located on Plate III
 Status of Site Open site; not sampled

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

CORRELATION DATA

Geological Age Pliocene
 Geological Source Tertiary Terrace
 Material Similar To _____
 Specific Gravity (sat.) _____ (Dry) _____
 Los Angeles Near _____
 Absorption _____ Soundness _____
 Wt. Cu.Ft. _____ Str. Ratio _____
 Remarks _____



MATERIAL SURVEY REPORT

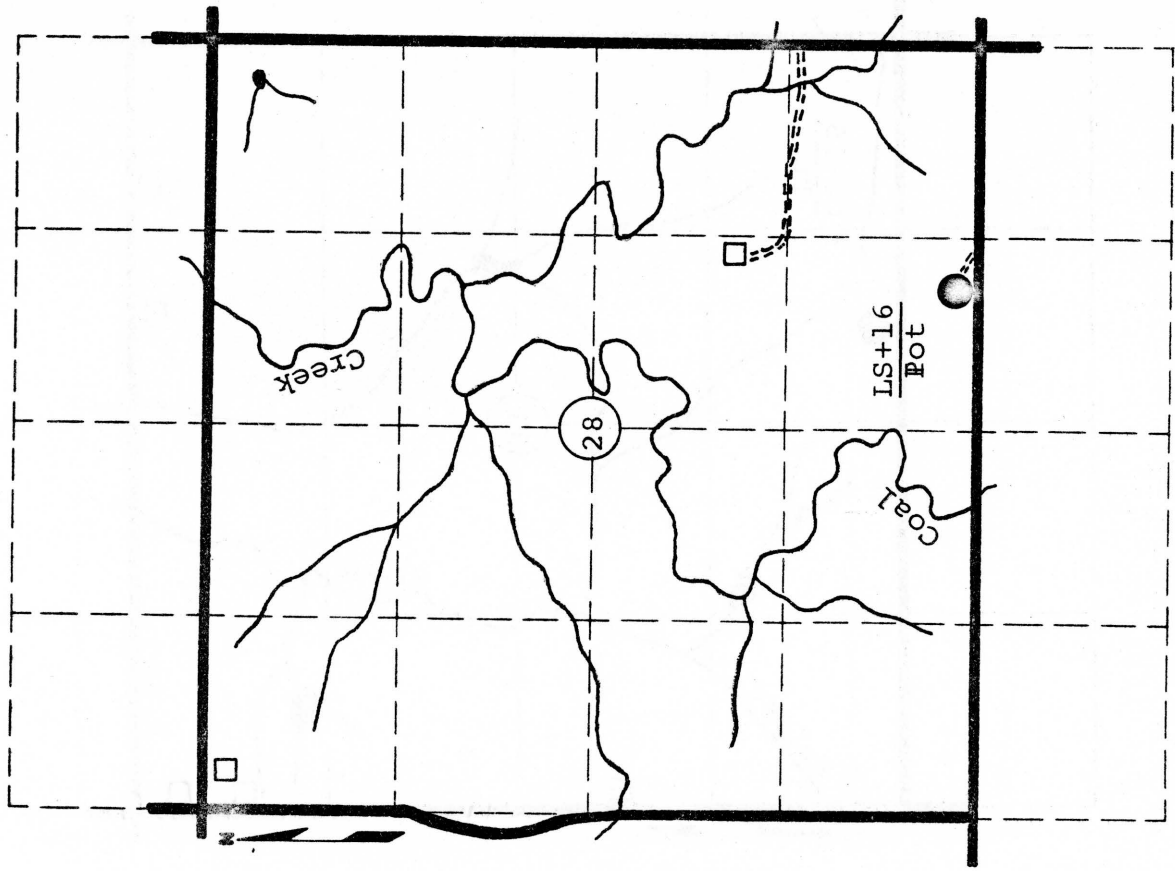
Site No. LS+16 Date August, 1967
POT
 Material Limestone County Franklin
 Location SE 1/4 Sec. 28 Twp. 17S Range 18E
 Owner Robert F. Killough 326 S. Elm, Ottawa, Kansas
 name address
 Nature of Deposit Dry Accessibility Good Site Located on Plate III
 Status of Site Open site; not sampled

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.		
				1/2	3/4	3/8	4	8	16	30					50	100

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Toronto Limestone
 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

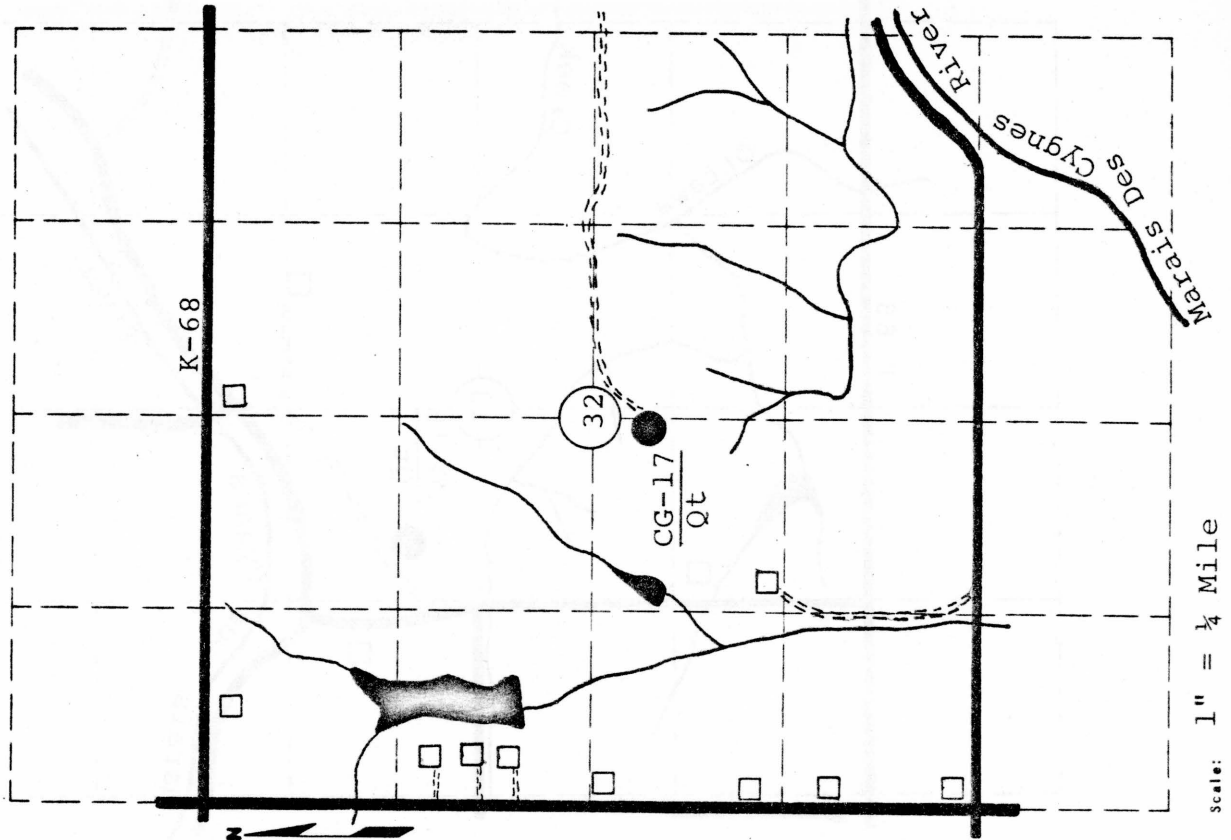
Site No. CG-17
Ot
 Material Chert Gravel
 Location NE 1/4 SW 1/4 Sec. 32 Twp. 16S Range 20E
 Owner Freddie Black RFD 2, Ottawa, Kansas
 name address
 Nature of Deposit DRY Accessibility POOR Site Located on Plate IV
 Status of Site Open site; not sampled

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

CORRELATION DATA

Geological Age Pleistocene
 Geological Source Quaternary Terrace
 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

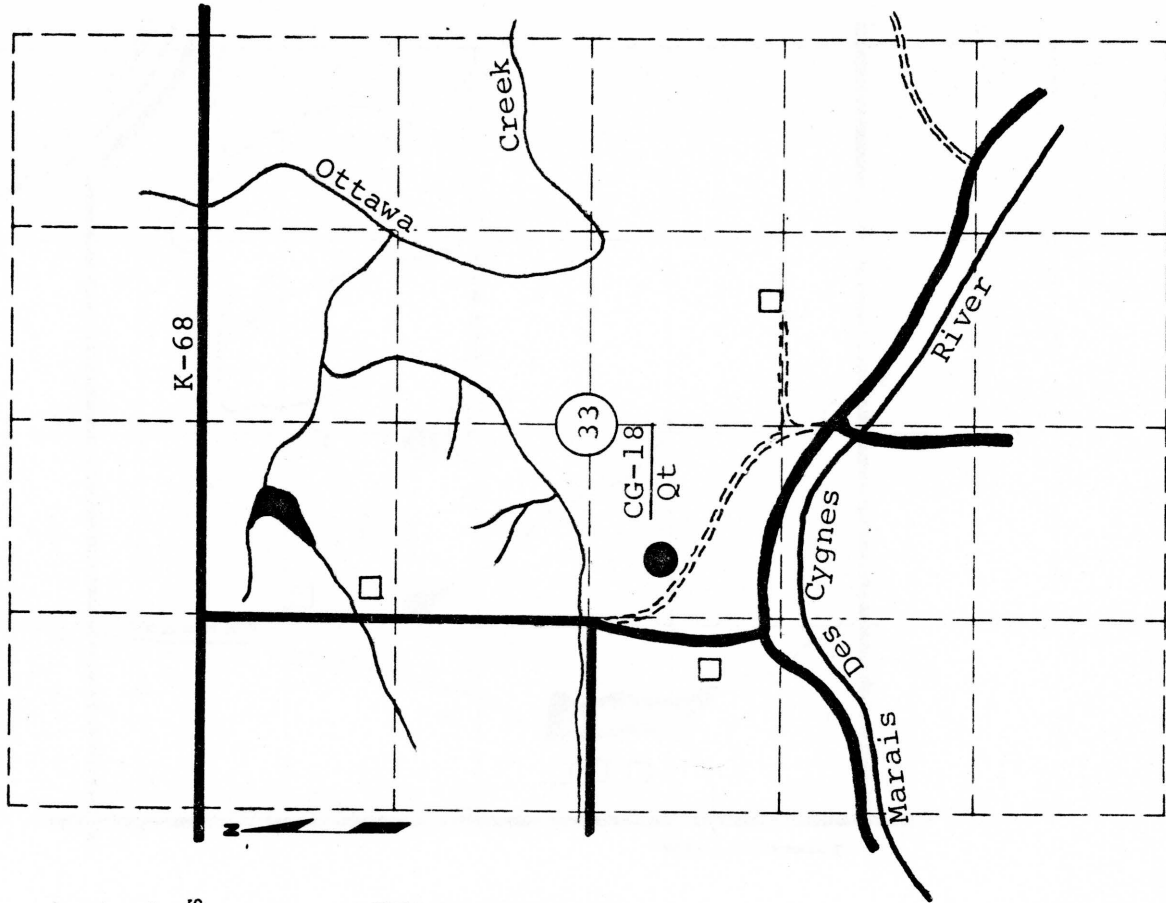
Site No. CG-18
Qt
 Material Chert Gravel
 Location NE 1/4 SW 1/4 Sec. 33 Twp. 16S Range 20E
 Owner Orville B. McNish et al. R.R. 2, Ottawa, Kansas
 address
 Nature of Deposit Dry accessibility Good Site located on Plate IV
 Status of Site Open site; not sampled

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pleistocene
 Geological Source Quaternary Terrace
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry)
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Co. Ft. _____ Str. Ratio _____
 Remarks _____



MATERIAL SURVEY REPORT

Site No. LS+19
PS
 Material Limestone
 Location SW 1/4 SW 1/4
 Owner L. B. Ross
 Nature of Deposit Dry Accessibility Good Site Located on Plate IV
 Status of Site Open site; not sampled

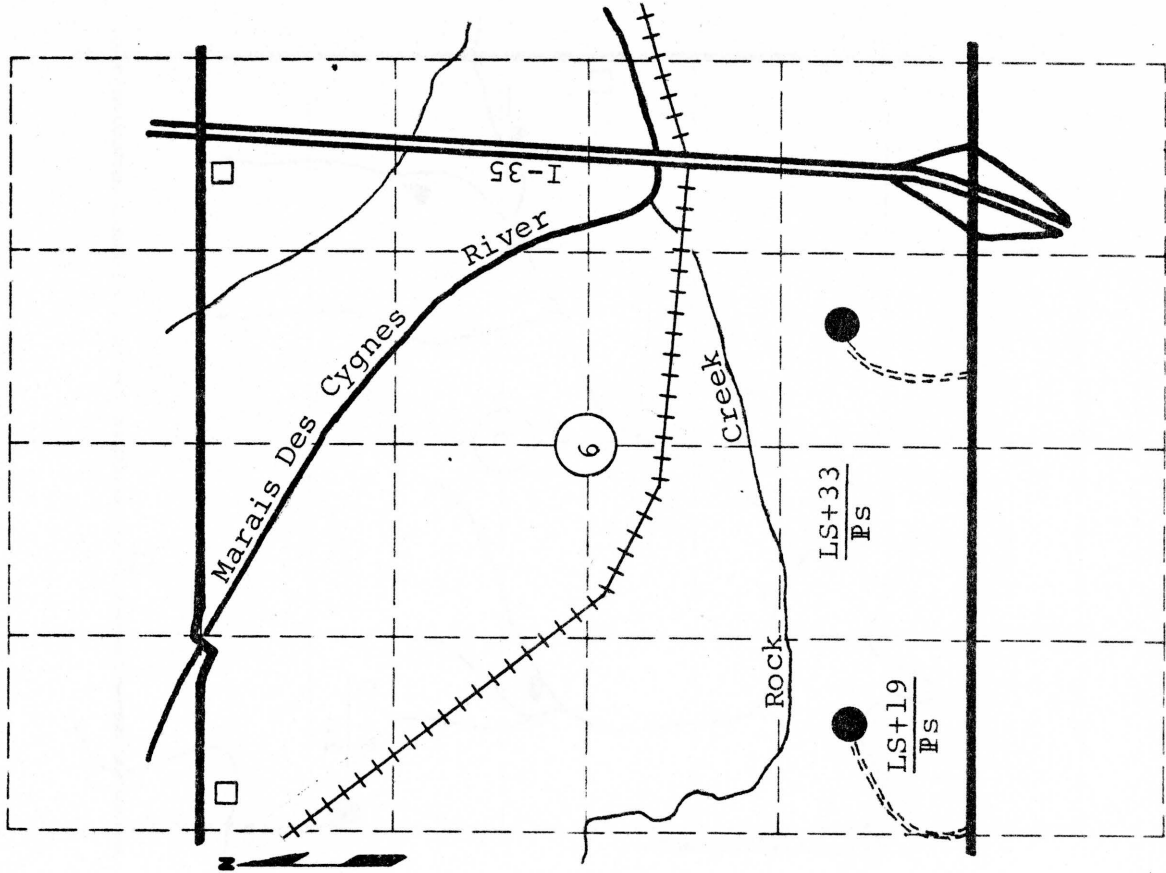
Date August, 1967
 County Franklin
 Sec. 6 Twp. 17S Range 20E
 RFD 1, Ottawa, Kansas
 address

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Stanton Formation (Stoner and Captain Creek Limestones)
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu.Ft. _____ Str. Ratio _____
 Remarks _____



MATERIAL SURVEY REPORT

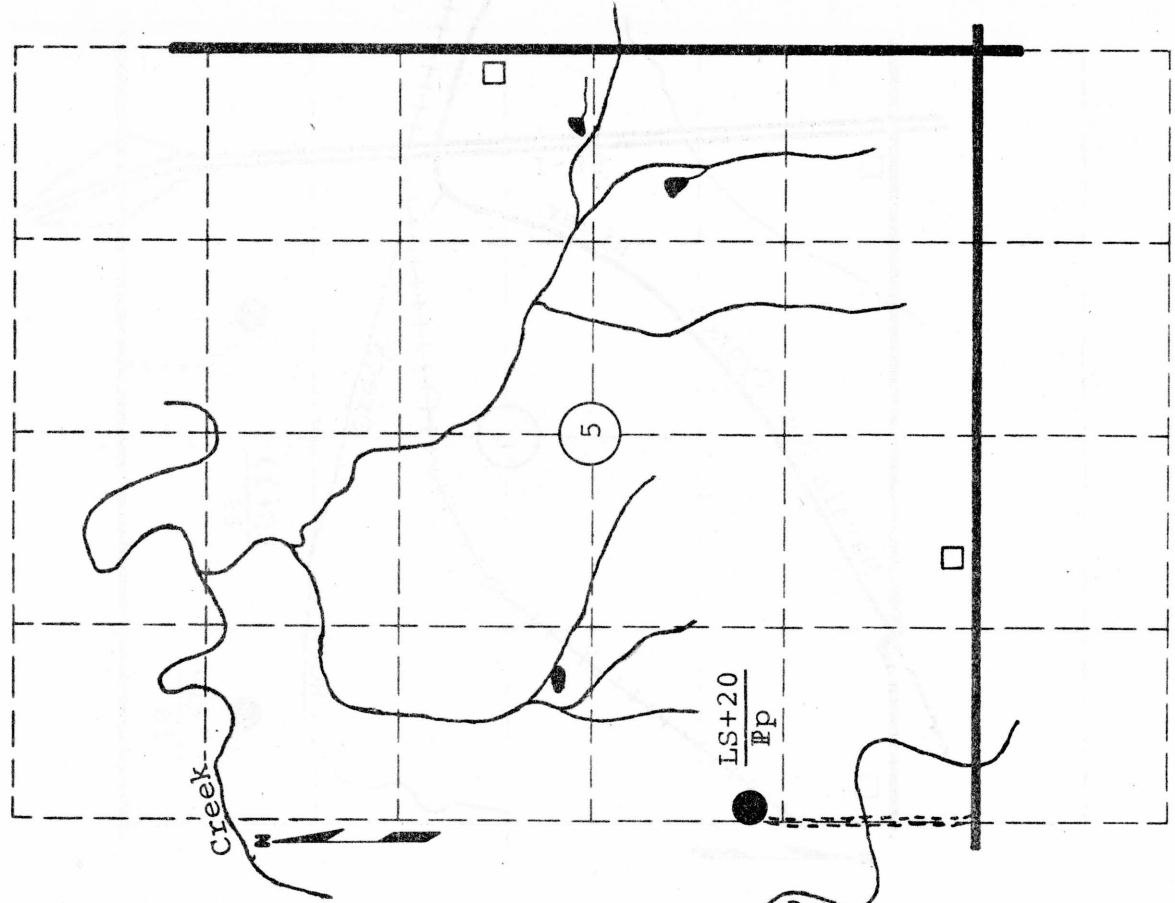
Site No. LS+20 Date August, 1967
Ep
 Material Limestone County Franklin
 Location SW 1/4 Sec. 5 Twp. 18S Range 20E
 Owner Louis W. Denker Princeton, Kansas
 name address
 Nature of Deposit Dry Accessibility Good Site Located on Plate IV
 Status of Site Open site; not sampled

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.		
				1/2	3/4	3/8	4	8	16	30					50	100

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Plattsburg Limestone (Spring Hill
Middle
 Limestone)
 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

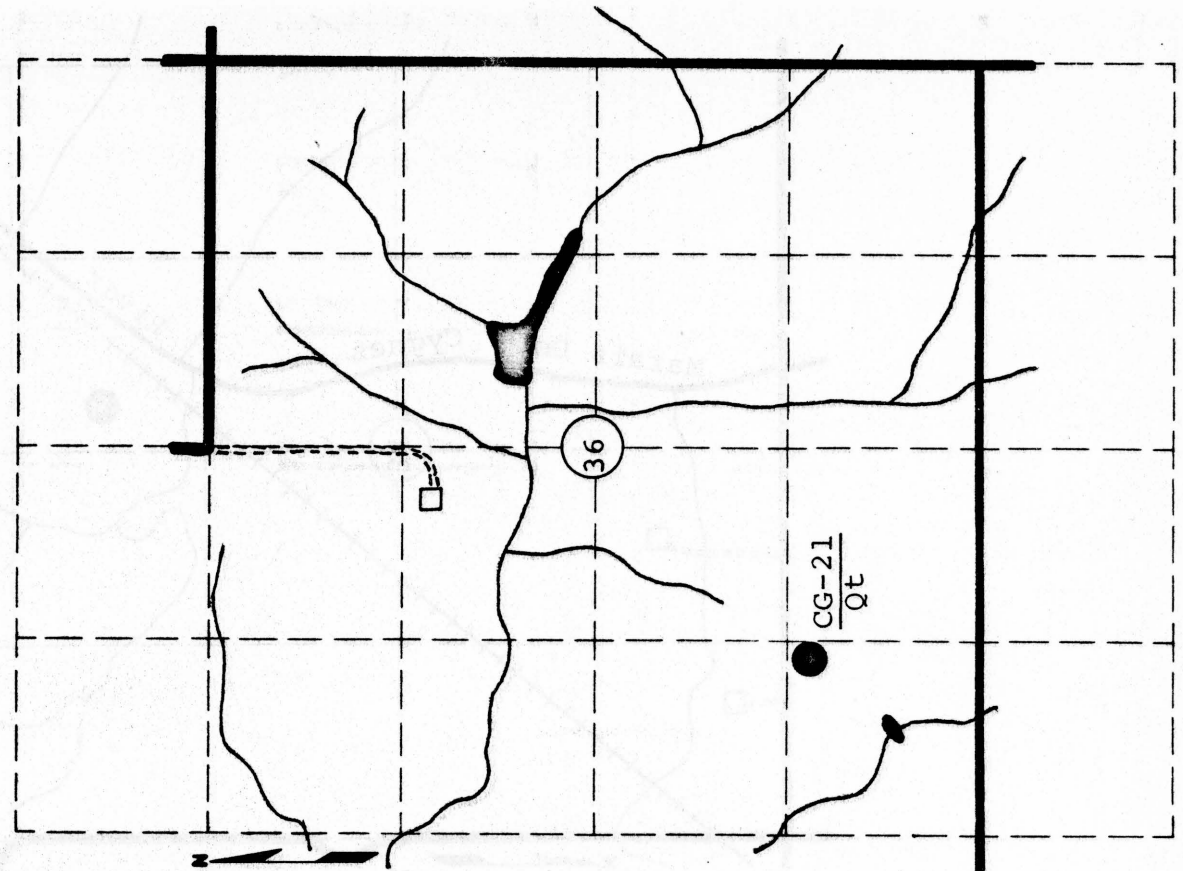
Site No. CG-21
Qt
 Date August, 1967
 Material Chert Gravel County Franklin
 Location SW $\frac{1}{4}$ Sec. 36 Twp. 17S Range 20E
 Owner A. A. Anderson 22 Rockwood Dr., Ottawa, Kansas
name address
 Nature of Deposit Dry Accessibility Poor Site Located on Plate IV
 Status of Site Open site; not sampled

EXPLORATION DATA

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

CORRELATION DATA

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



Scale: 1" = 1/4 Mile

STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

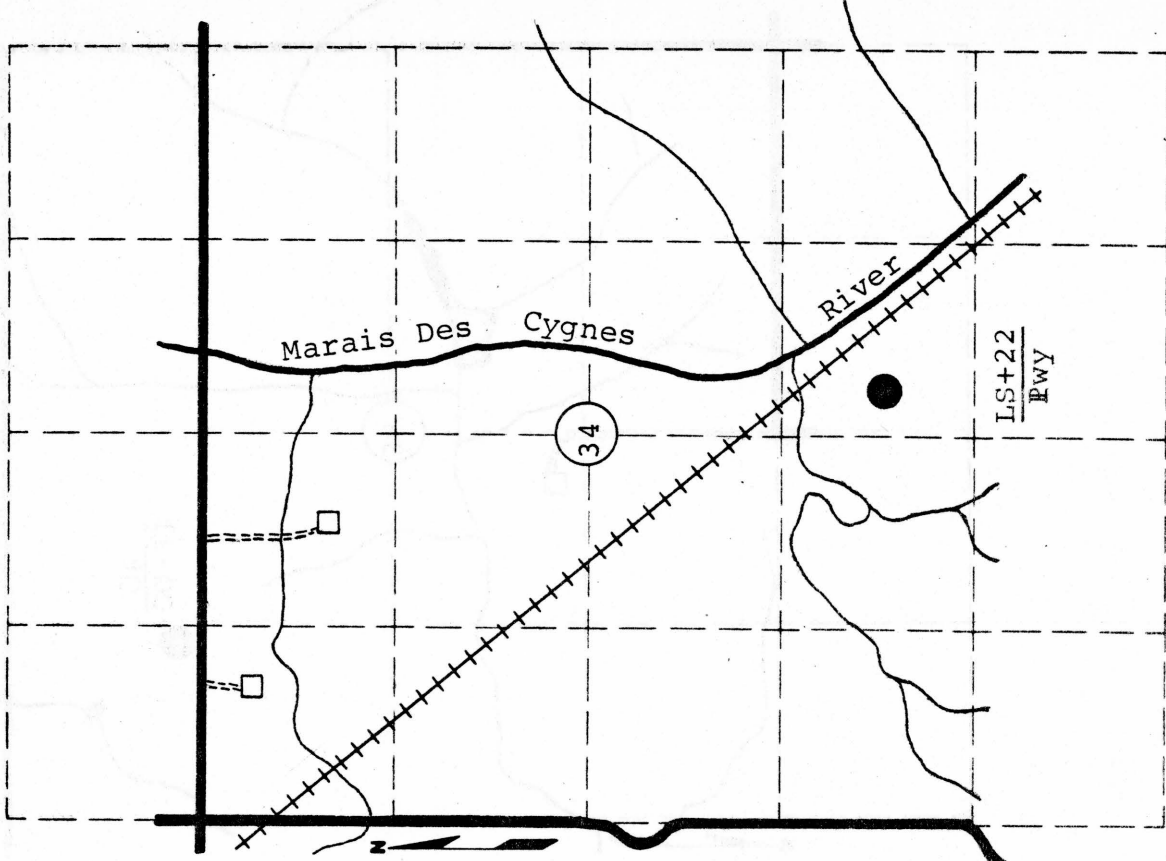
Site No. LS+22
PWY
 Date August, 1967
 Material Limestone County Franklin
 Location SE 1/4 Sec. 34 Twp. 17S Range 21E
 Owner Sarah R. Lewis 921 Market St., Emporia, Kansas
 address
 Nature of Deposit Dry Accessibility POOR Site Located on Plate IV
 Status of Site Open site; not sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of Material	Percent Retained							Wash 200	L.L.	G.F.	P.I.
			1 1/2	3/4	3/8	4	8	16	30				

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Wyandotte Formation
 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

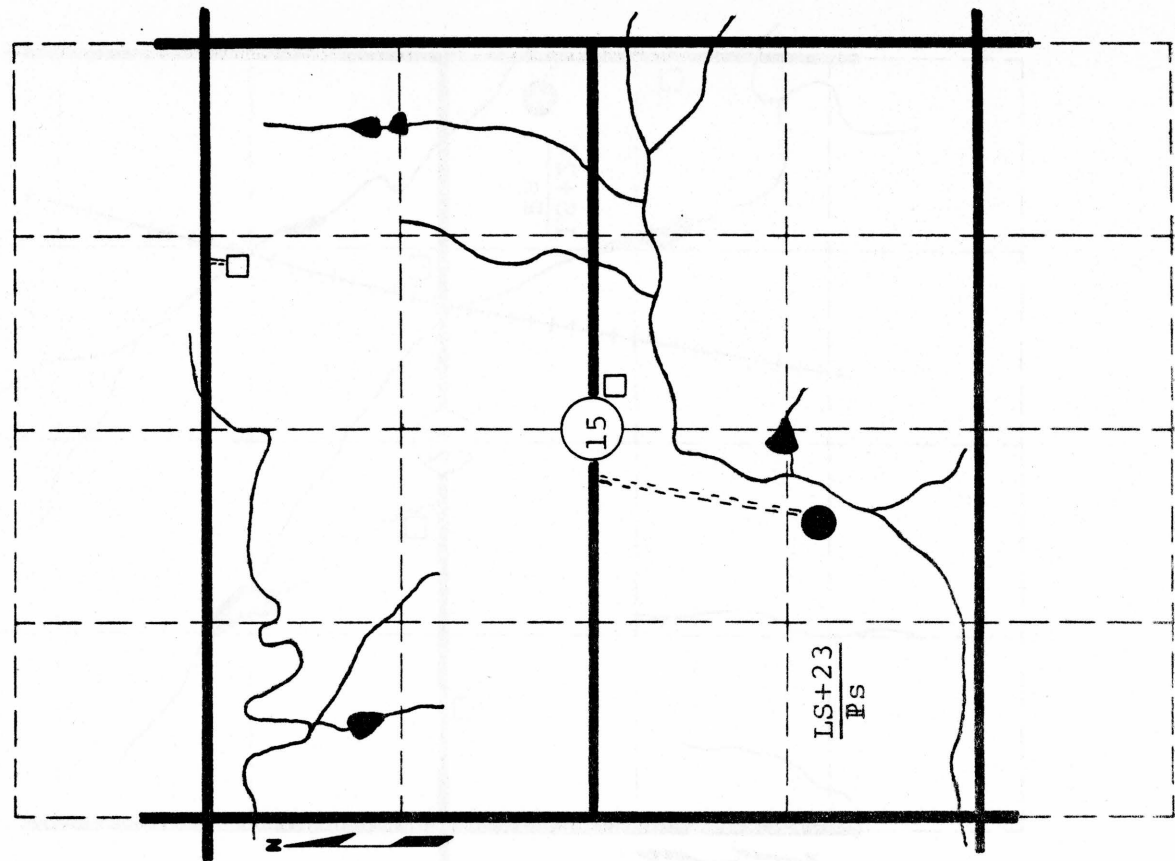
Site No. LS+23 Date August, 1967
PS
 Material Limestone County Franklin
 Location SW 1/4 Sec. 15 Twp. 19S Range 19E
 Owner Herman J. Feverborn Richmond, Kansas
 name address
 Nature of Deposit Dry Accessibility Poor Site Located on Plate V
 Status of Site Open site; not sampled

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Stanton Formation (Stoner Limestone)
 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

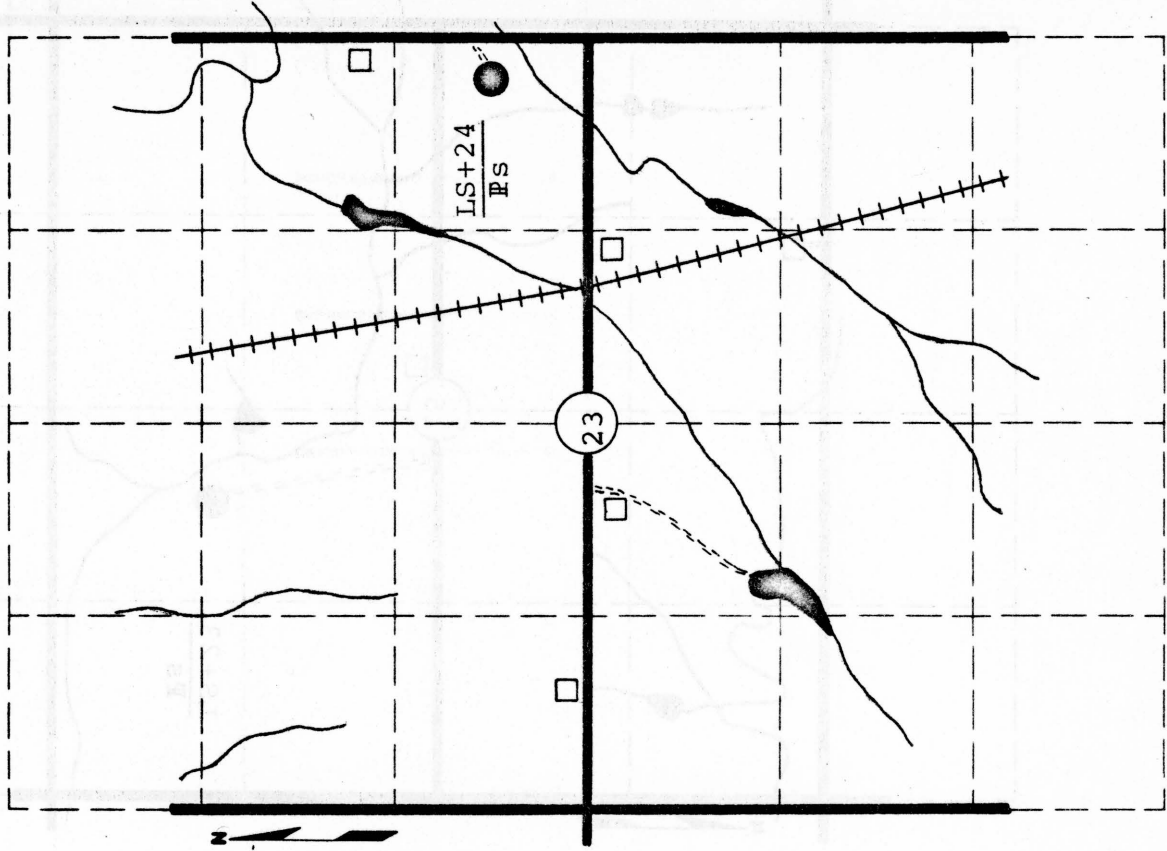
Site No. LS+24
PS
 Date August, 1967
 Material Limestone County Franklin
 Location NE 1/4 Sec. 23 Twp. 18S Range 19E
 Owner E. B. & A. C. Cleveland Princeton, Kansas
 Name VI address
 Nature of Deposit Dry Accessibility Fair Site located on Plate
 Status of Site Open site; not sampled

EXPLORATION DATA

Test Hole	Material at bottom of hole	Depth of overburden	Depth of Material	Percent Retained						Wash 200	G.F.	L.L.	P.I.
				1/2	3/4	8	16	30	50				

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Stanton Formation (Stoner Limestone)
 Material Similar to Material produced at site LS+37
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Near _____
 Absorption _____ Soundness _____
 Wt. Cu.Ft. _____ Str. Ratio _____
 Remarks _____



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

Site No. LS+25
Pp
 Material Limestone
 Location NW 1/4 Sec. 16 Twp. 19S Range 20E
 Owner Charles C. Gilkey et ux 1731 Clay, Topeka, Kansas
 address
 Nature of Deposit Dry accessibility POOR Site Located on Plate VI
 Status of Site Open site; not sampled

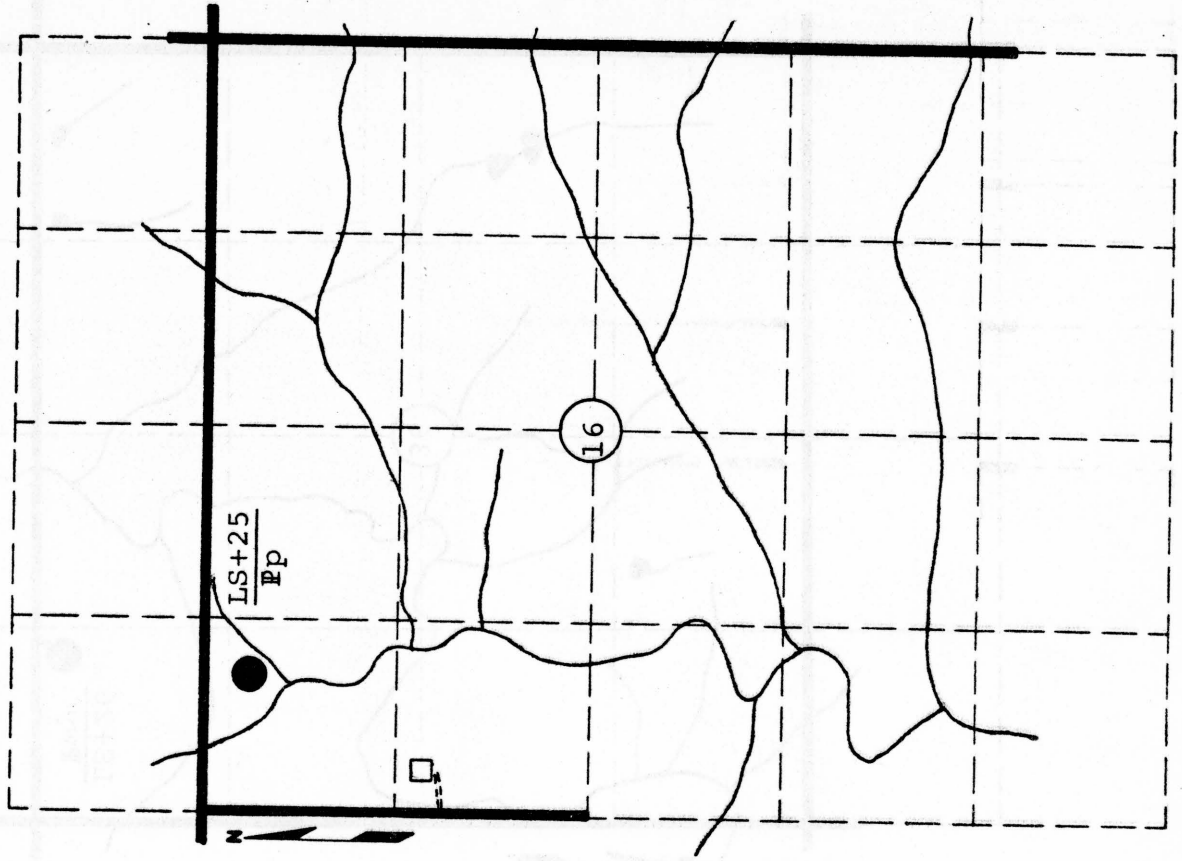
EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Plattsburg Formation (Spring Hill Limestone)

Material Similar To _____
 Specific Gravity (sat.) _____ (Dry)
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu-ft. _____ Str. Ratio _____
 Remarks _____



Scale: 1" = 1/4 Mile

STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

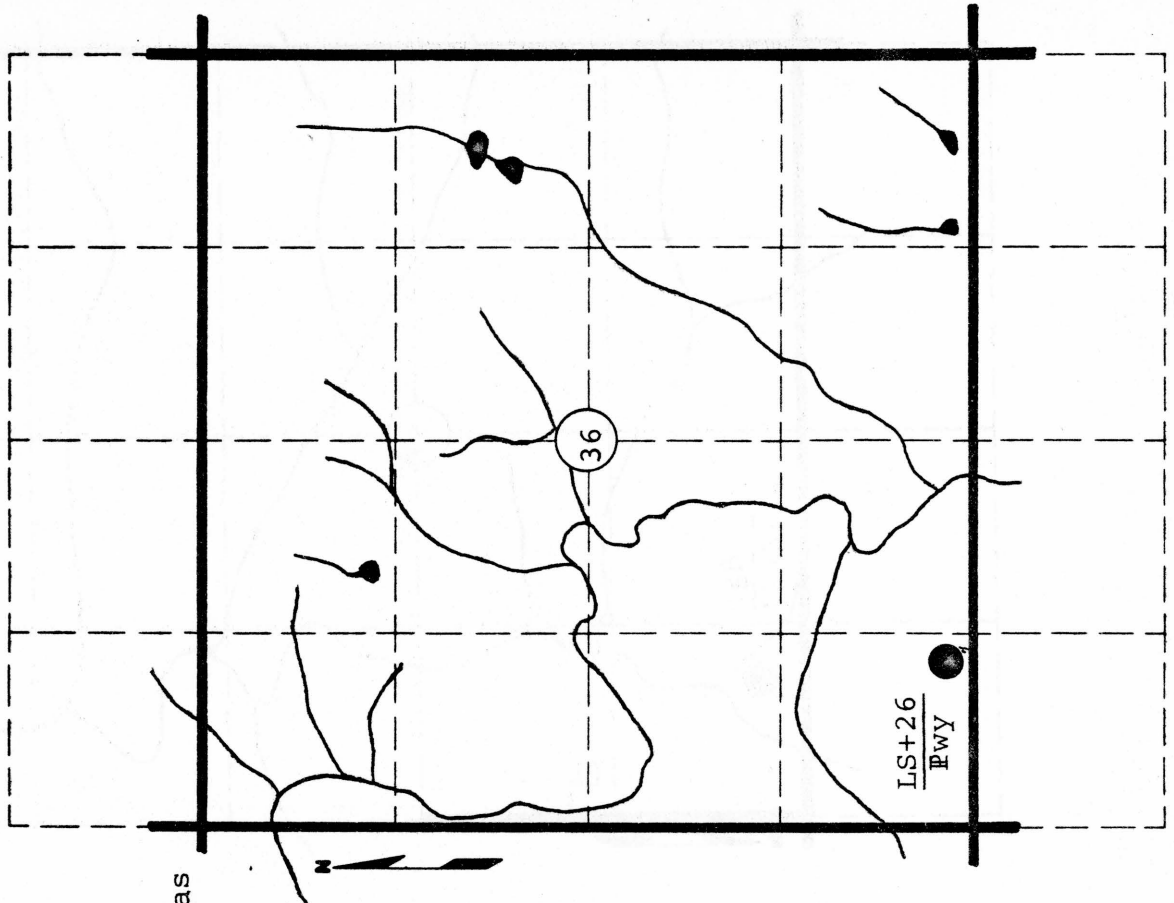
Site No. LS+26 Date August, 1967
PWY
 Material Limestone County Franklin
 Location SW 1/4 Sec. 36 Twp. 18S Range 20E
 Owner Lloyd J. Crowl et al., 801 Grand Ct., Topeka, Kansas
 name address
 Nature of Deposit Dry Accessibility Good Site located on Plate VI
 Status of Site Open site; not sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of Material	Percent Retained							Wash 200	G.F.	L.L.	P.I.
			1 1/2	3/4	3/8	4	8	16	30				

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Wyandotte Formation
 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

Site No. LS+27
PP Date August, 1967
 Material Limestone County Franklin
 Location SW 1/4 Sec. 8 Twp. 18S Range 21E
 Owner Lyle V. Smith 301 S. 9th, Independence, Kansas
 address
 Nature of Deposit Dry Accessibility Good Site located on Plate VI
 Status of Site Open site; not sampled

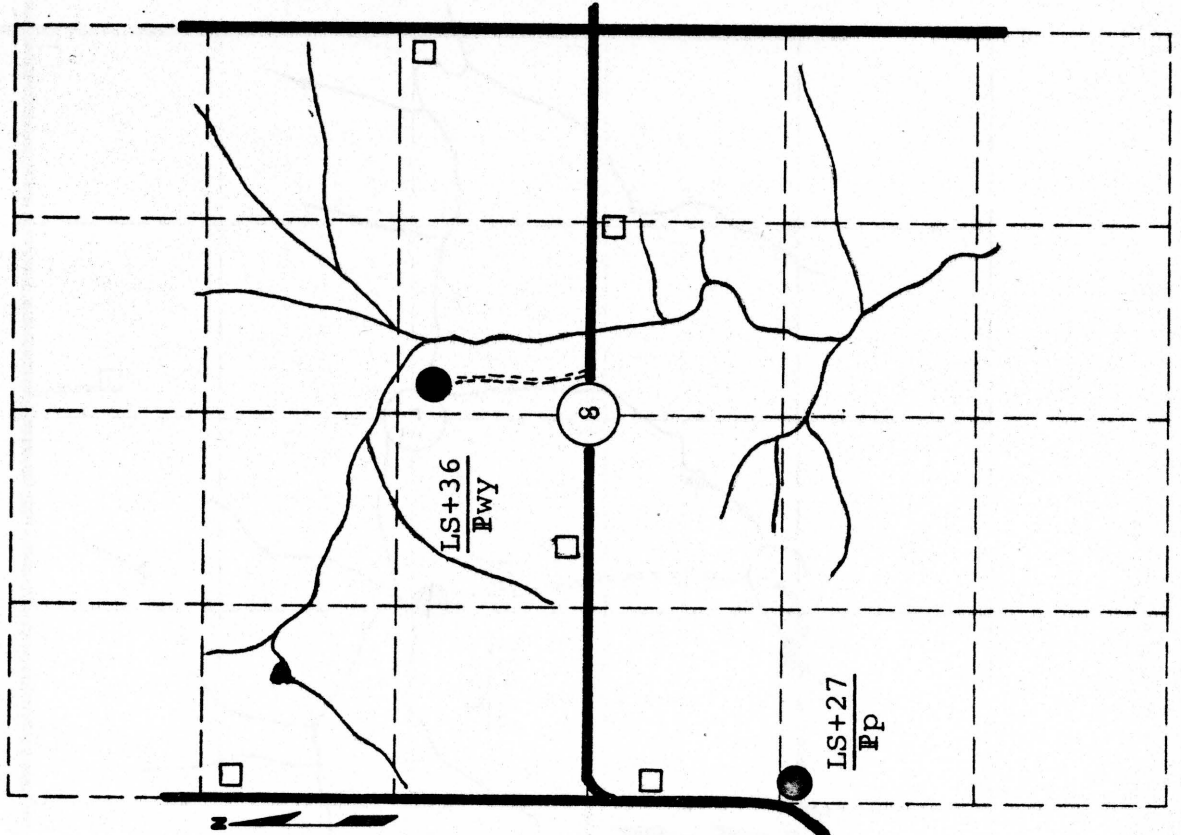
EXPLORATION DATA

Test Mole	Material at Bottom of Mole	Depth of over-burden	Depth of Material	Percent Retained							Wash 200	G.F.	L.L.	P.I.	
				1/2	3/4	3/8	5/8	16	30	50					100

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Plattsburg Formation (Spring Hill Limestone)

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

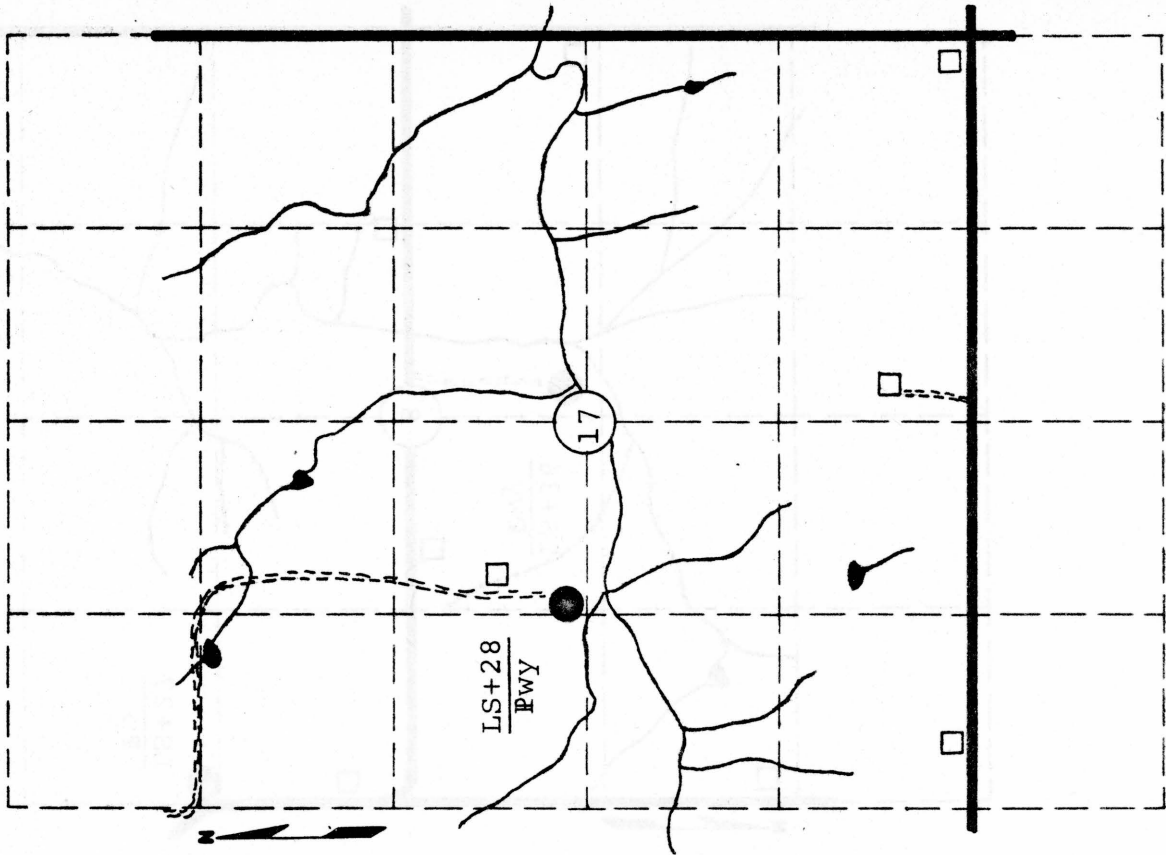
Site No. LS+28 Date August, 1967
PWY
 Material Limestone County Franklin
 Location NW 1/4 Sec. 17 Twp. 18S Range 21E
 Owner See Remarks address VI
 Nature of Deposit Dry Accessibility Good Site Located on Plate _____
 Status of Site Open site; not sampled

EXPLORATION DATA

Test Hole	Material at bottom of Hole	Depth of over-burden	Depth of Material	Percent Retained					Wash 200	S.F.	L.L.	P.I.
				1/2	3/4	1	1 1/4	1 1/2				

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Wyandotte Formation
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu.ft. _____ Str. Ratio _____
 Remarks Benjamin L. Carter et ux 1326 S. Main
Ottawa, Kansas



STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

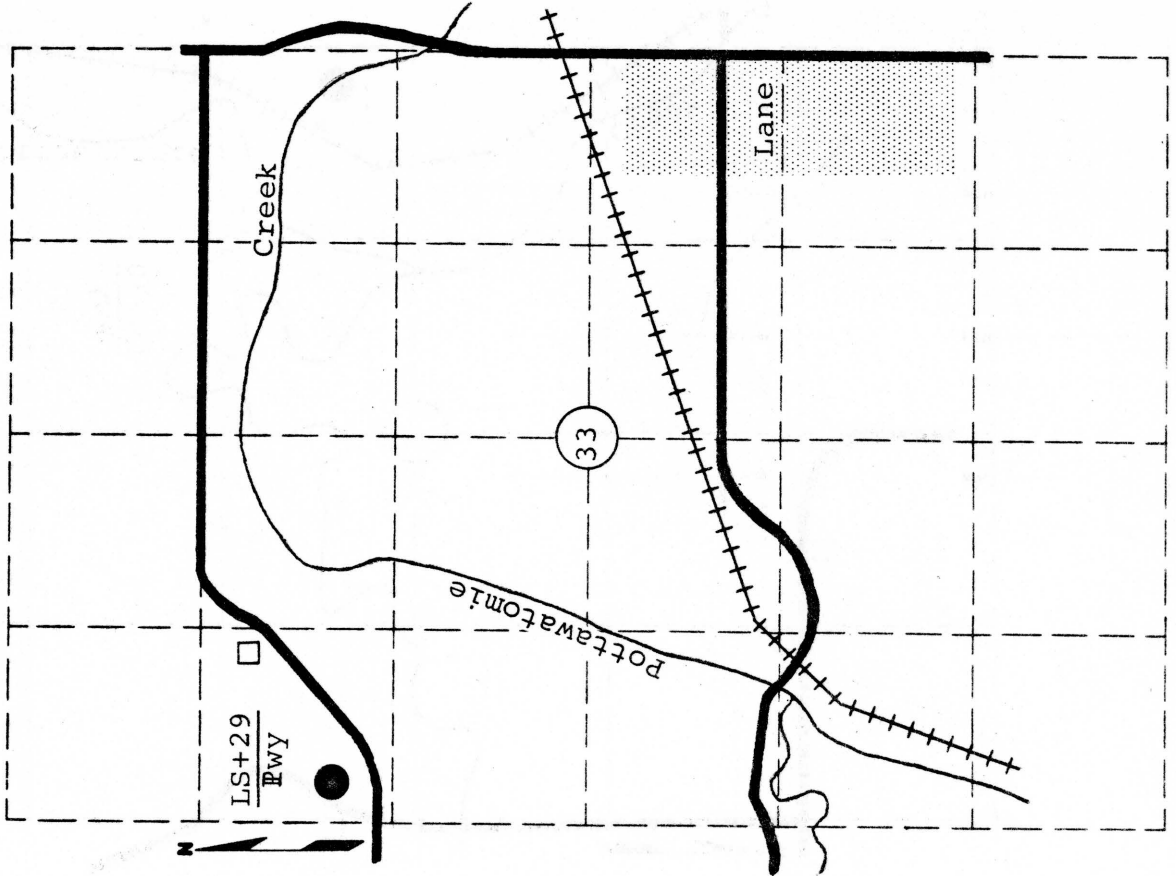
Site No. LS+29
Pwy
 Material Limestone
 Location NW 1/4 Sec. 33 Tp. 18S Range 21E
 Owner Dorothy N. Belt Lane, Kansas
 Nature of Deposit Dry Accessibility POOR Site Located on Plate VI
 Status of Site Open site; not sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of Material	Percent Retained						Wash 200	G.F.	L.L.	P.I.
			1 1/2	3/4	3/8	4	8	16				

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Wyandotte Formation
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Near _____
 Absorption _____ Soundness _____
 Wt. Co.Ft. _____ Str. Ratio _____
 Remarks _____



STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

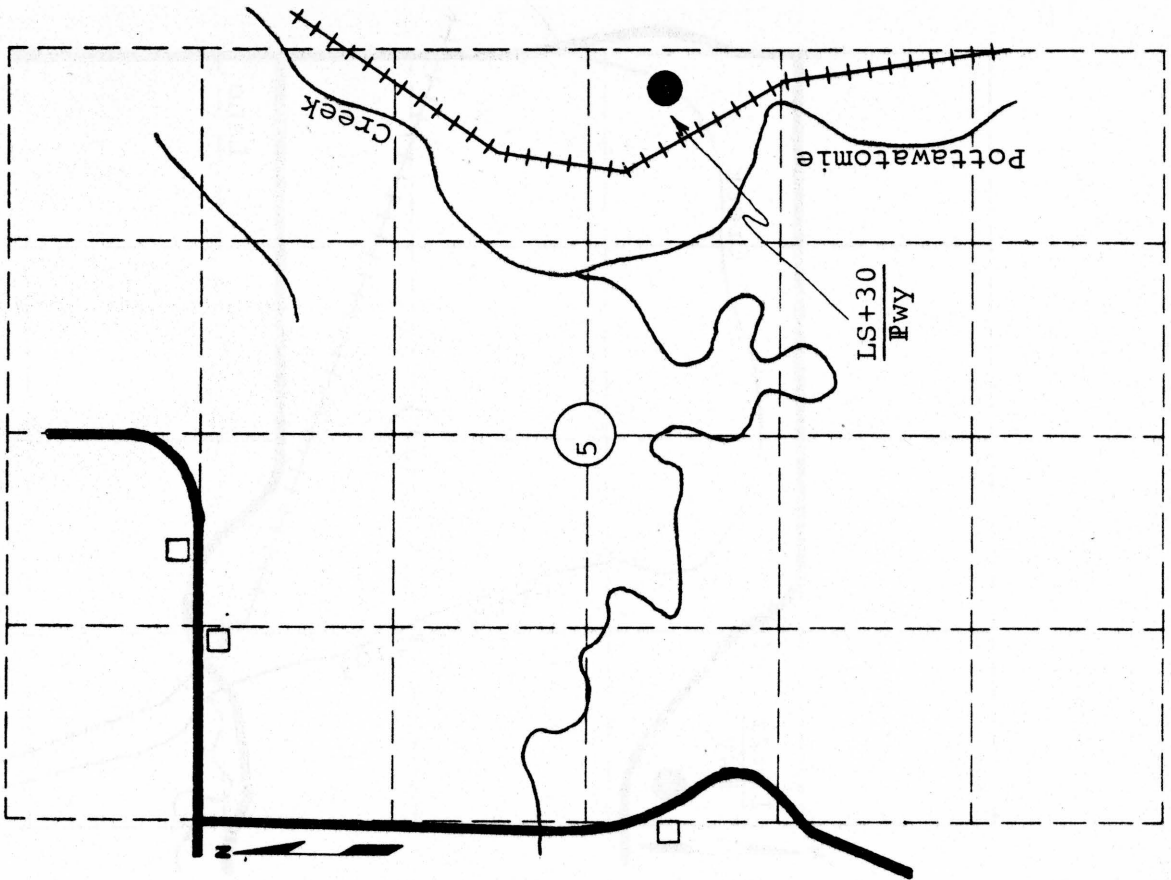
Site No. LS+30
EWY
 Date August, 1967
 Material Limestone County Franklin
 Location SE 1/4 Sec. 5 Twp. 19S Range 21E
 Owner A. J. Forster etux RFD 3, Paola, Kansas
 address
 Nature of Deposit Dry Accessibility Poor Site Located on Plate VI
 Status of Site Open site; not sampled

EXPLORATION DATA

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


CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Wyandotte Formation
 Material Similar to _____
 Specific Gravity (sat.) _____ (dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu.Ft. _____ Str. Ratio _____
 Remarks _____









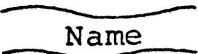

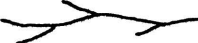





Scale: 1" = 1/4 Mile

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		Open materials site: 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

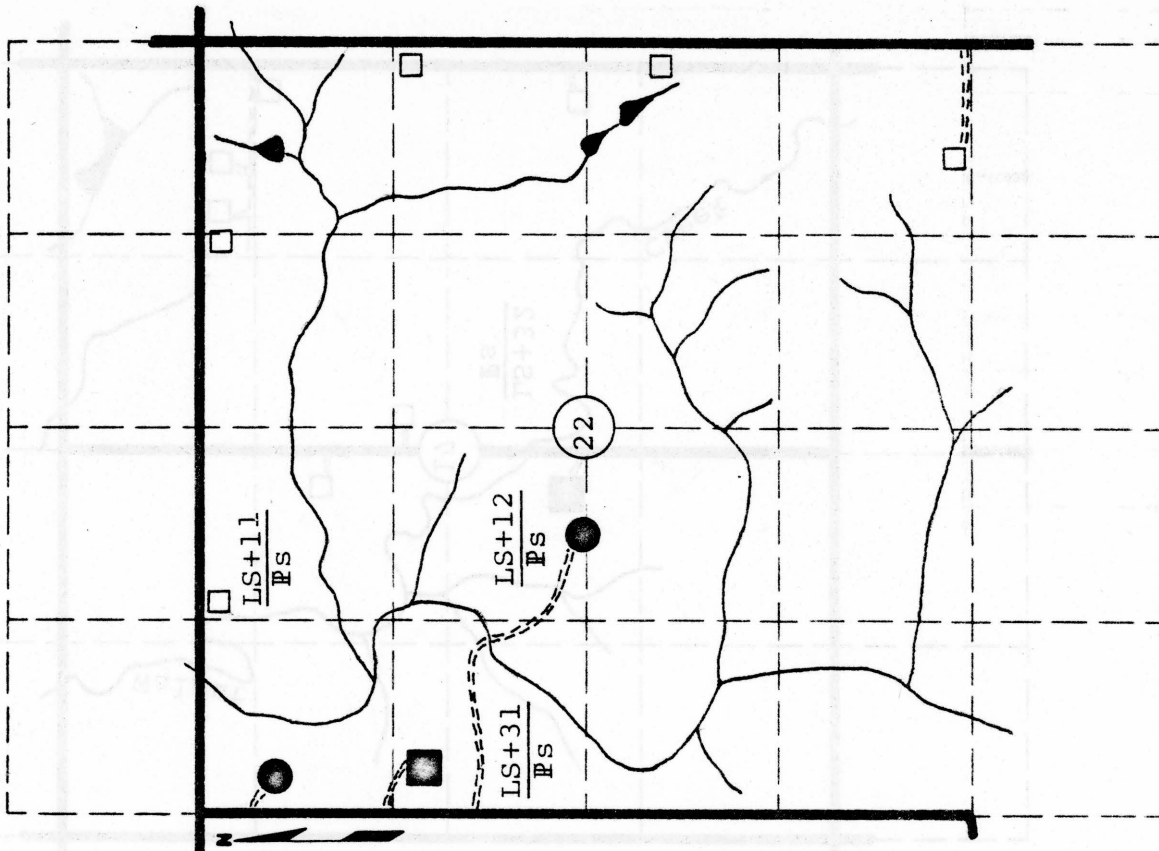
Site No. LS+31 Date August, 1967
PS
 Material Limestone County Franklin
 Location SW 1/4 NW 1/4 Sec. 22 Twp. 16S Range 20E
 Owner William H. Rice R.R. 1 Ottawa, Kansas
name address
 Nature of Deposit Dry Accessibility Good Site located on Plate II
 Status of Site Open site; sampled

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.			
				1/2	3/4	4	8	16	30	50					100		

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Stanton Formation (Stoner Limestone)
 Material Similar To SHC Form 619 No. 30-12
 Specific Gravity (Sat.) 2.58 (Dry) 2.52
 Los Angeles Wear 30.8
 Absorption 2.52 Soundness 0.97
 Wt. Cu.Ft. _____ Str. Ratio _____
 Remarks Periodic portable crushing operation.



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

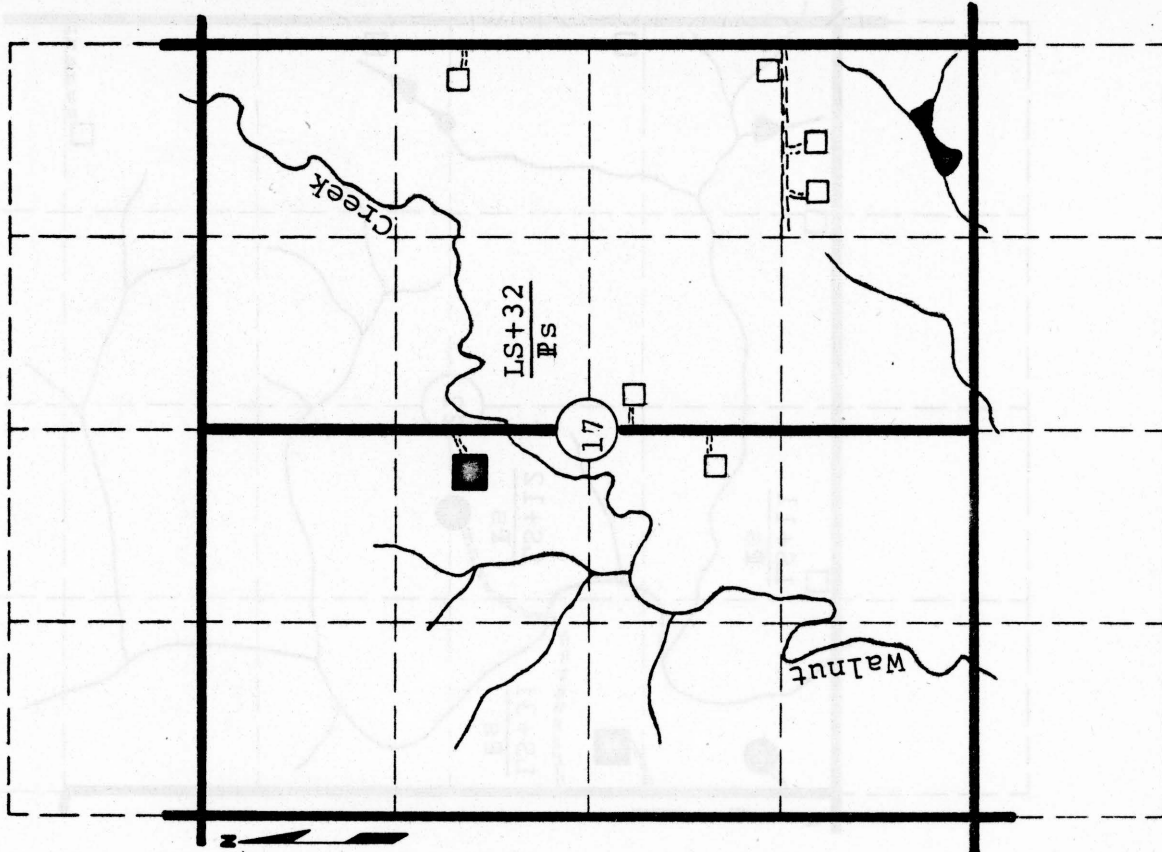
Site No. LS+32 Date August, 1967
PS
 Material Limestone County Franklin
 Location NW 1/4 Sec. 17 Twp. 16S Range 21E
 Owner Robert F. Killough et ux, 326 S. Elm, Ottawa, Kansas
 Name Robert F. Killough et ux, 326 S. Elm, Ottawa, Kansas
 Nature of Deposit Dry accessibility Good Site located on Plate II
 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.						
				1/2	3/4	3/8	4	8	16					30	50	100			

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Stanton Formation (Stoner Limestone)
 Material Similar To SHC Form 619 No. 30-15
 Specific Gravity (Sat.) 2.60 (Dry) 2.55
 Los Angeles Wear 29.5(B)
 Absorption 2.02 Soundness 0.98
 Wt. Cu.Ft. _____ Str. Ratio _____
 Remarks _____



STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

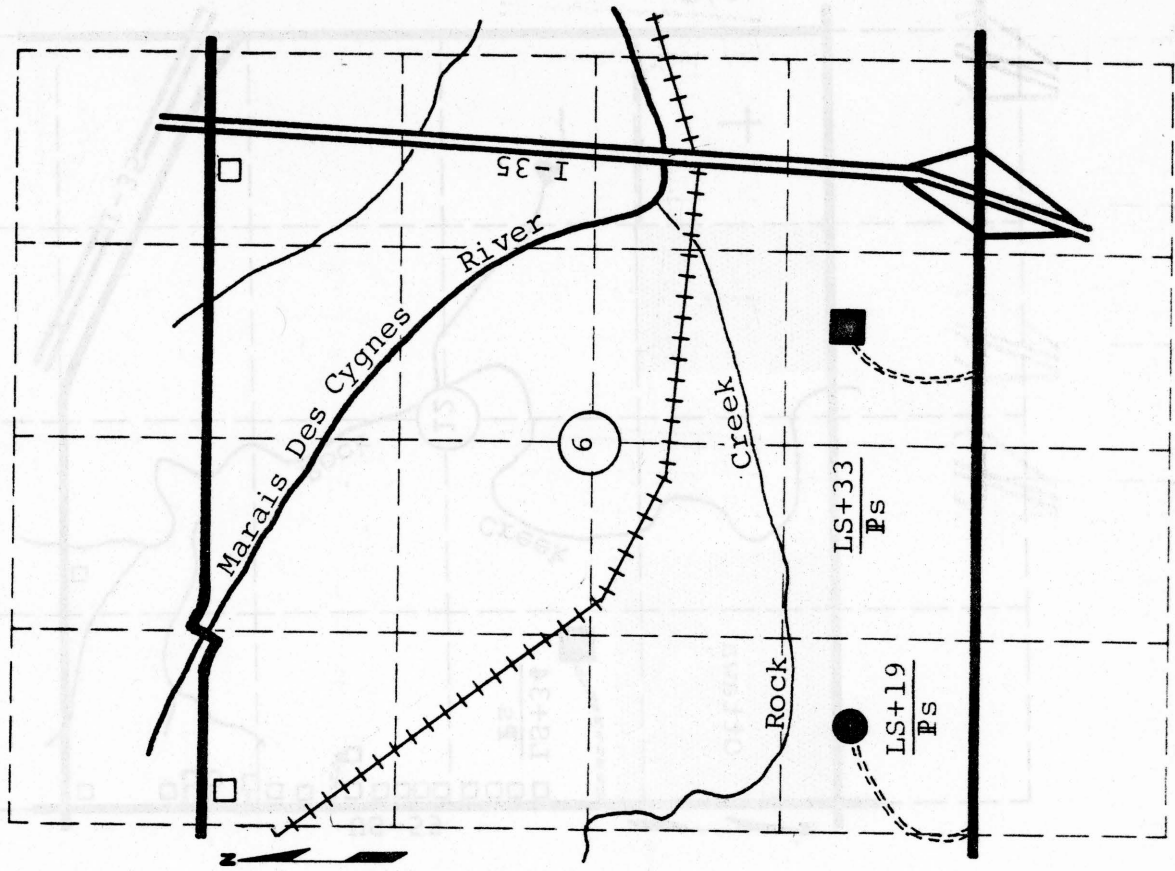
Site No. LS+33
PS
 Material Limestone
 Location SE 1/4 Sec. 6 Twp. 17S Range 20E
 Owner Martin-Marietta Corp., Box 790, Cedar Rapids, Iowa
 Name address
 Nature of Deposit Dry Accessibility Good Site Located on Plate IV
 Status of Site Open site; sampled

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.		
				1/2	3/4	1	16	30	50	100						

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source See Remarks
 Material Similar to SHC Form 619 No. 30-11
(A) Stoner (B) Captain Creek (C) Spring Hill
 Specific Gravity (sat.) (A) 2.59 (B) 2.57 (C) 2.58_(dry) (A) 2.53 (B) 2.48 (C) 2.51
 Los Angeles Wear (A) 27.3 (B) 30.5 (C) 31.8
 Absorption (A) 2.33 (B) 3.68 (C) 3.12 soundness (A) 0.95 (B) 0.95 (C) 0.96
 Wt. Cu.Ft. _____ Str. Ratio _____
 Remarks Stanton Formation (Stoner and Captain Creek
Limestones)
Plattsburg Formation (Spring Hill Limestone)



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

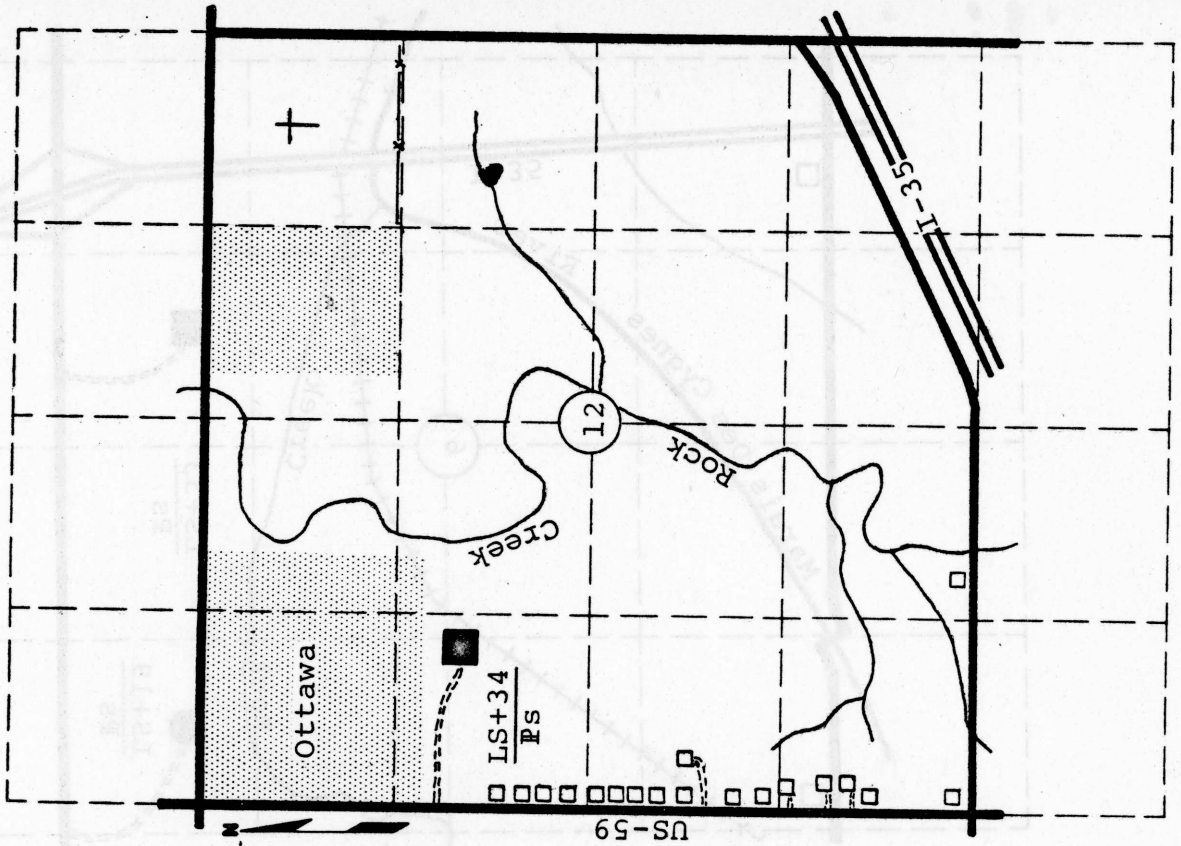
Site No. LS+34 Date August, 1967
Ps
 Material Limestone County Franklin
 Location NW $\frac{1}{4}$ Sec. 12 Twp. 17S Range 19E
 Owner F. O. Fogle etux 18th & Main, Ottawa, Kansas
 Name address
 Nature of Deposit Dry Accessibility Good Site Located on Plate IV
 Status of Site Open site; sampled

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.			
				1/2	3/4	1	1.5	2	3	4							

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Stanton Formation (Stoner Limestone)
 Material Similar To SHC Form 619 No. 30-4
 Specific Gravity (Sat.) 2.56 (Dry) 2.48
 Los Angeles Wear 33.1(B)
 Absorption 3.25 Soundness 0.99
 Wt. Cu.ft. _____ Str. Ratio _____
 Remarks _____



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

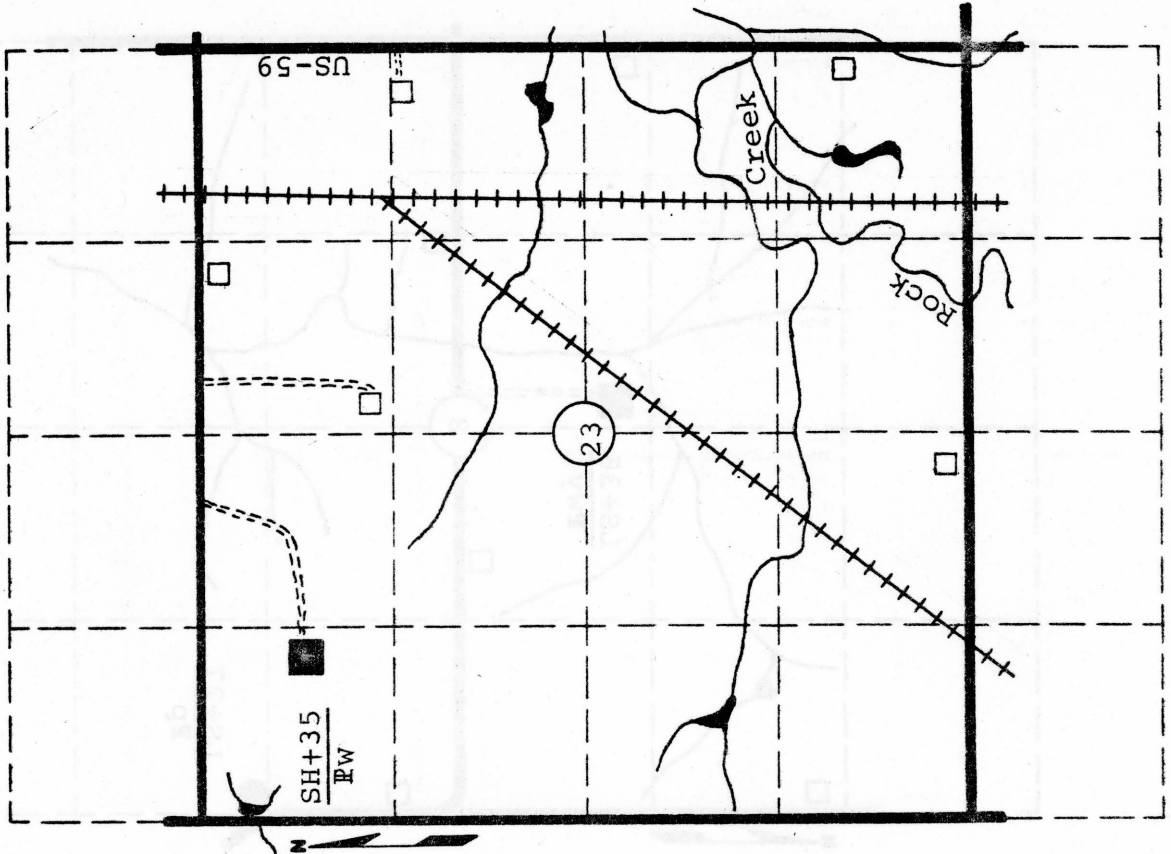
Site No. SH+35
PW
 Date August, 1967
 Material Shale County Franklin
 Location NW 1/4 Sec. 23 Twp. 17S Range 19E
 Owner Buildex Inc. RFD 1, Ottawa, Kansas
 address
 Nature of Deposit Dry Accessibility Good Site Located on Plate IV
 Status of Site Open site; sampled

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		

CORRELATION DATA

Geological Age Pennsylvanian
 Geological source Weston Shale
 Material similar to SHC Form 619 No. 30-13
 Specific Gravity (Sat.) 1.76 (Dry) 1.80
 Los Angeles Near 23.0(D)
 Absorption 8.51 Soundness 0.95
 Wt. Cu.Ft. _____ Str. Ratio _____
 Remarks _____



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

Site No. LS+36 Date August, 1967
Pwy
 Material Limestone County Franklin
 Location NE 1/4 Sec. 8 Twp. 18S Range 21E
 Owner Florence E. Betz Lane, Kansas
 Name address
 Nature of Deposit Dry accessibility Good Site located on Plate VI
 Status of Site Open site; sampled

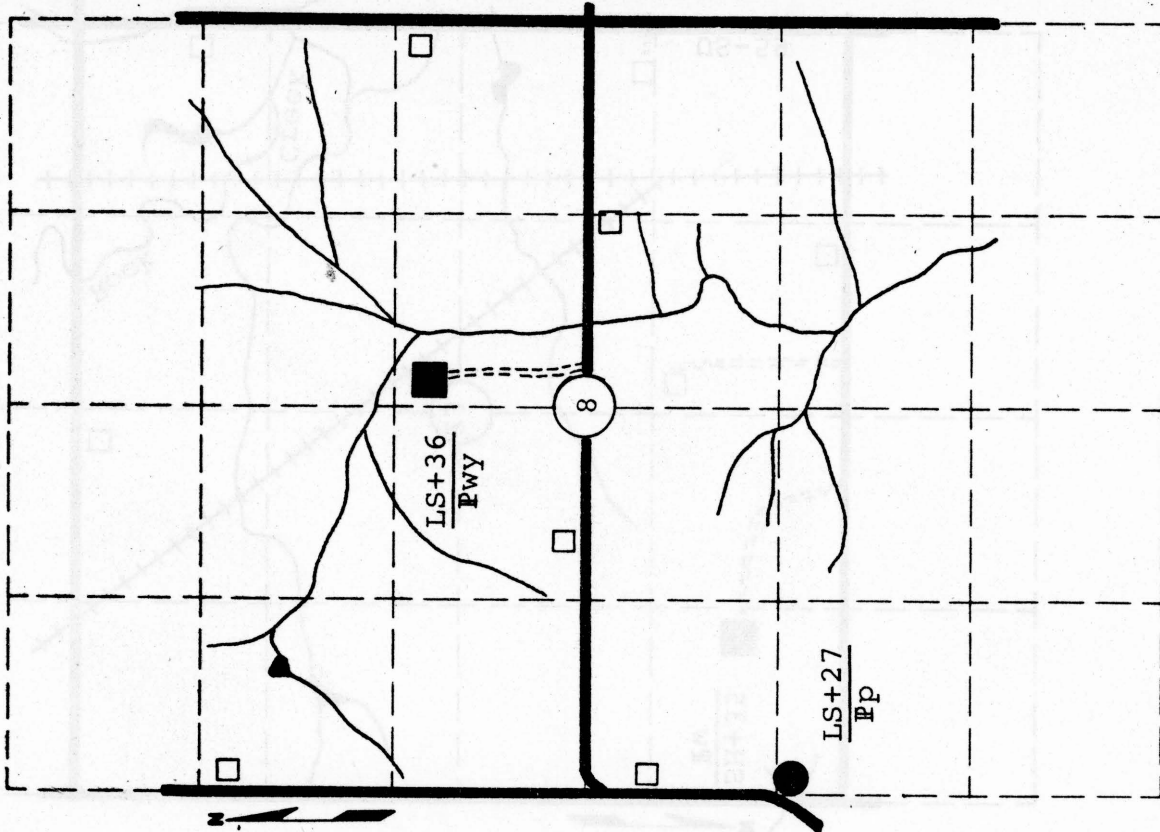
EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Wyandotte Formation
 Material Similar To SHC Form 619 No. 30-14

Specific Gravity (Sat.) 2.50 (Dry) 2.40
 Los Angeles Near 35.0 (B)
 Absorption 4.38 Soundness 0.97
 Wt. Cu.Ft. Str. Ratio
 Remarks



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

Site No. LS+37 Date August, 1967
PS
 Material Limestone County Franklin
 Location NW 1/4 Sec. 24 Twp. 18S Range 19E
 Owner H. B. Wheeler 627 S. Maple, Ottawa, Kansas
 name address
 Nature of Deposit Dry Accessibility Good Site located on Plate VI
 Status of Site Open site; sampled

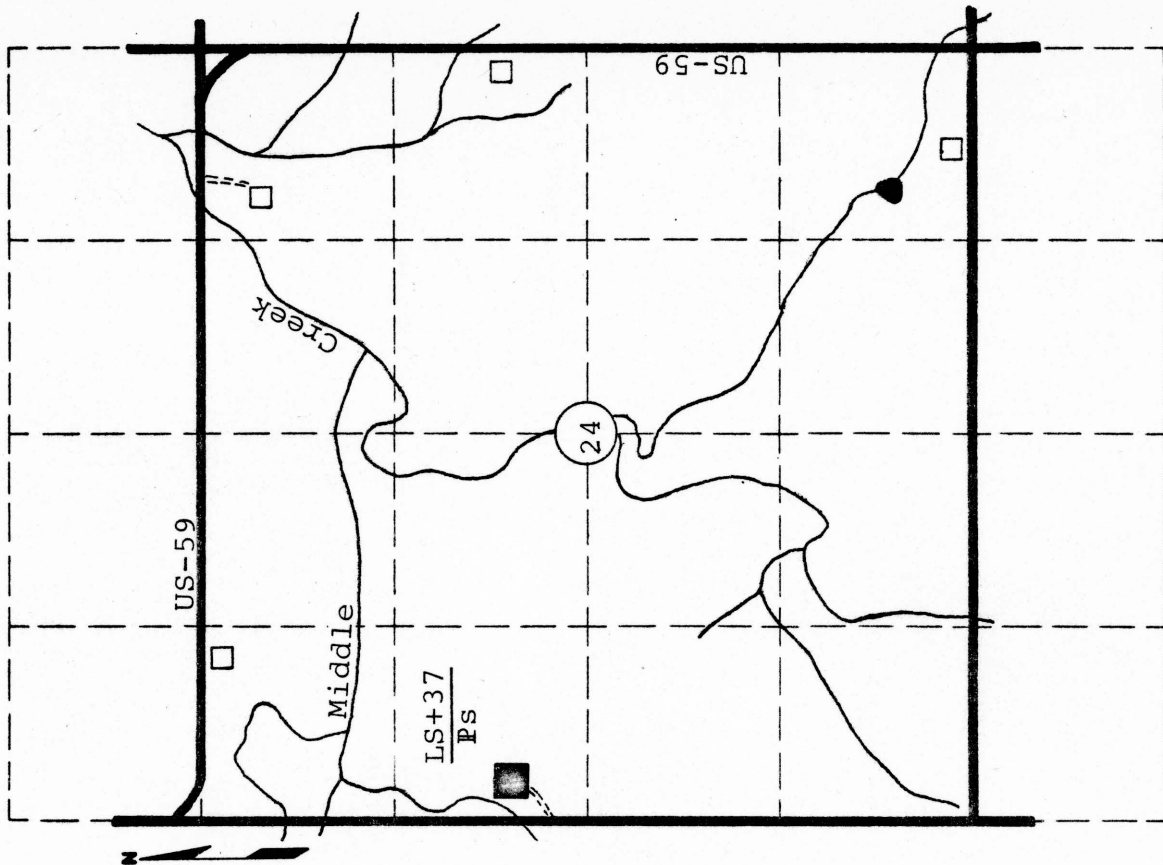
EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Stanton Formation (Stoner Limestone)
 Material Similar To SHC Form 619 No. 30-9

Specific Gravity (Sat.) 2.52 (Dry) 2.42
 Los Angeles Wear 37.3(B)
 Absorption 4.06 Soundness 0.95
 Wt. Cu.Ft. Str. Ratio
 Remarks This material not acceptable for asphaltic concrete.



Scale: 1" = 1/4 Mile

GLOSSARY OF SIGNIFICANT TERMS

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

Alluvium: A general term for all detrital material deposited permanently or in transit by streams. Unless otherwise stated, Alluvium is unconsolidated.

Aquifer: Geologic formations or units that are water-bearing.

Connate water: Water that was trapped during the deposition of sedimentary rocks. Such water usually has a high salinity.

Consolidated geologic units: Usually refers to strata older than Pleistocene where there is some cementation of the individual grains (i.e. shale, sandstone, and limestone).

Detrital: Material made up of pieces of other rock.

Eolian deposits: Wind-deposited sediments such as Loess.

Fine sand: An aggregation of unconsolidated mineral or rock particles the dimensions of which are usually considered to be less than five-tenths of a millimeter and greater than five-hundredths of a millimeter. The term refers to size of grain and not composition; however, since most sands are composed of quartz and are used without qualification, a siliceous composition is implied.

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

Geologic system: Refers to the sediments that were laid down during a particular geologic period, e.g. the Pennsylvanian System refers to the rocks that were deposited during the Pennsylvanian Period.

Geologic unit: The term is used in this report to refer to a geologic formation or member and unconsolidated deposits of Tertiary or Pleistocene age.

Ground-water: Water in the zone of saturation, that is, below the water table. In a more general and popular sense, any water that is standing or passing through the ground may be called "ground-water".

Light type surfacing material: Chert gravel, crushed limestone or other material placed on roads to provide an all weather surface or more commonly "a gravel road".

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

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

Lithology: A term referring to the physical properties of a geologic unit such as grain size, mineral content and color.

Marine deposits: Deposits laid down in the sea as contrasted with those laid down on land or in lakes.

Material source bed: A geologic unit from which usable construction material can be produced or is being produced.

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

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

Pleistocene age: A period of geologic time representing approximately the last one million years on the geologic time scale.

Pliocene age: The last and youngest major subdivision of the Tertiary Period.

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

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

Stratigraphic position: The vertical position of a geologic unit in relation to other geologic units.

Terrace: A plain located above the present floodplain, which is usually made up of older stream-laid deposits.

Unconsolidated deposits: A geologic unit where the basic constituents of the material have not been cemented or do not adhere together as a unit bed. Silt, clay, sand, and gravel are the main constituents of unconsolidated deposits. Most unconsolidated deposits were laid down in Pleistocene time.

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

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

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