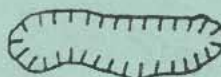


## APPENDIX I

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

### LEGEND



This symbol on the site data form represents an open site.



MATERIAL SURVEY REPORT

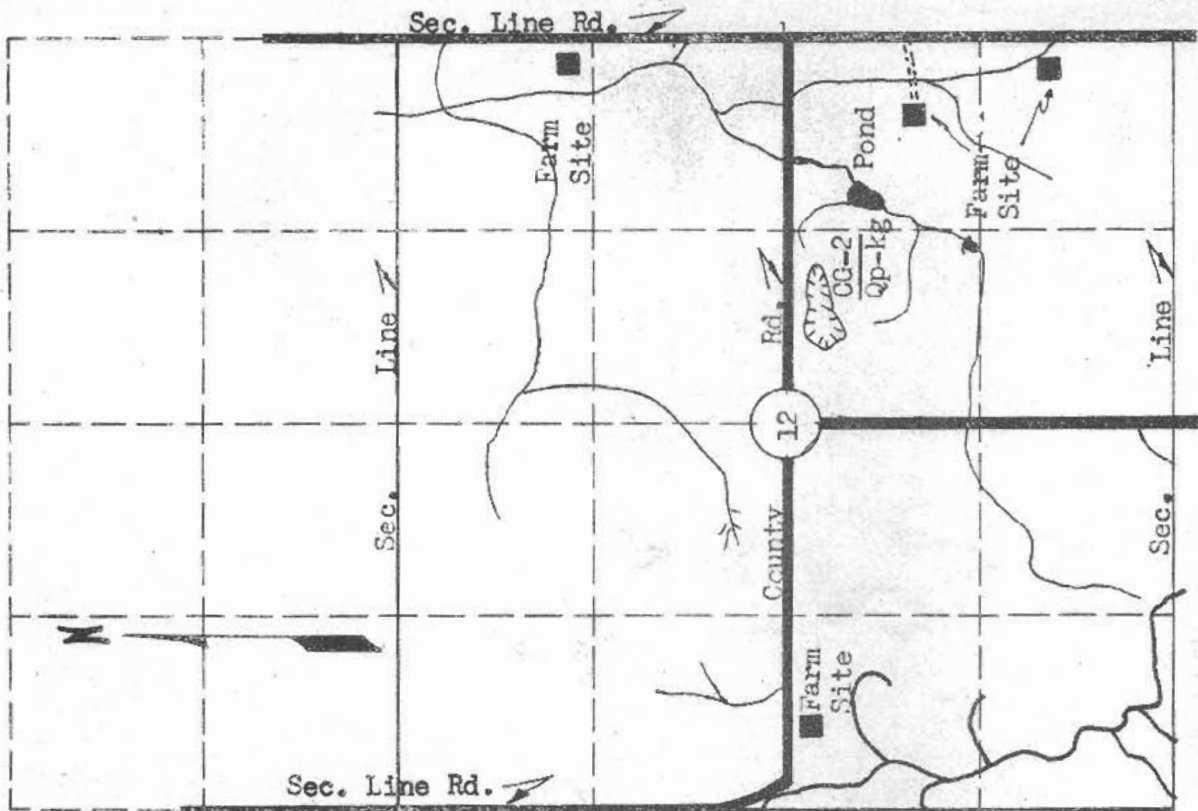
Site No. CG-2 Date June, 1965  
Qp-kg  
 Material Chert Gravel County Marshall  
 Location NW 1/4 SE 1/4 Sec. 12 Twp. 5S Range 8E  
 Owner Albert W. Miller Frankfort, Kansas  
 address  
 Nature of Deposit Dry Accessibility Good  
 Status of Site Open site; not sampled

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 Quaternary  
 Geological Source Pre-Kansan Gravel  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu-ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks \_\_\_\_\_



MATERIAL SURVEY REPORT

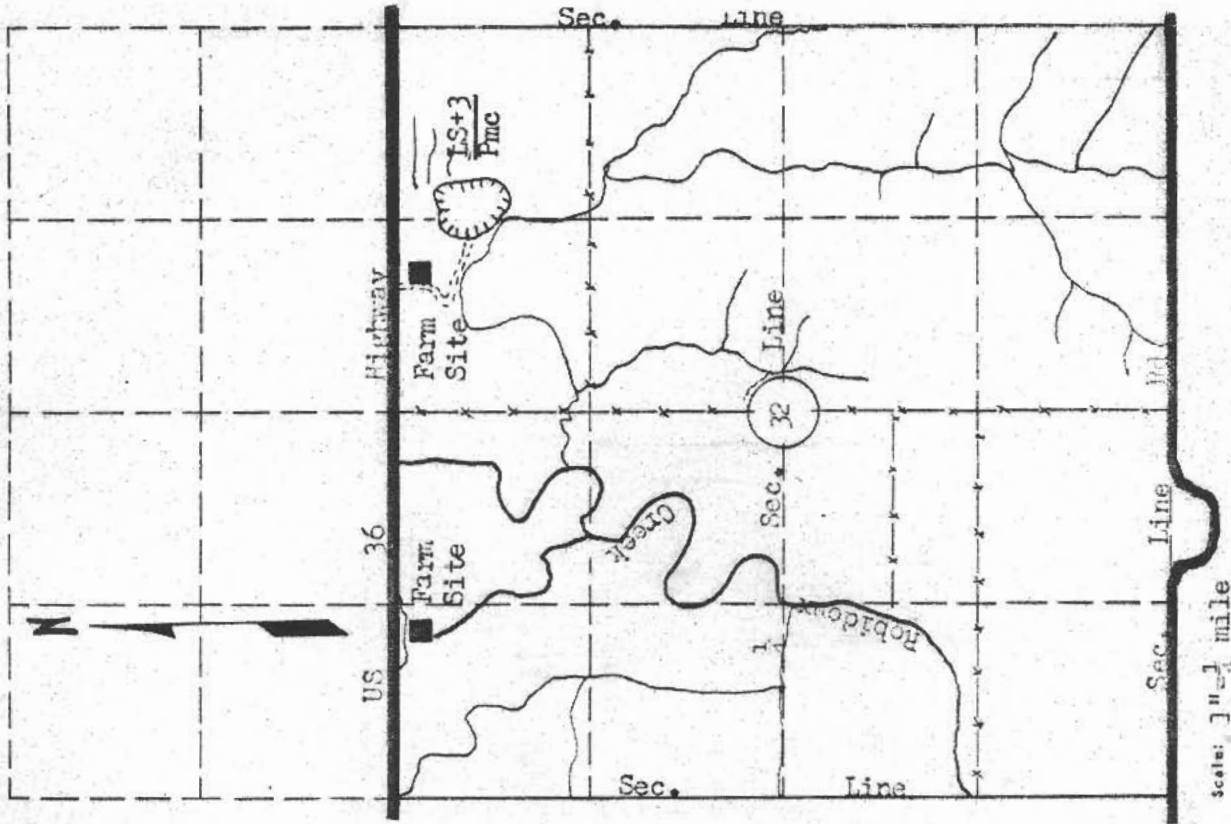
Site No. LS+3  
Pmc  
 Date June, 1965  
 Material Limestone County Marshall  
 Location NW 1/4 NE 1/4 Sec. 32 Twp. 2S Range 9E  
 Owner Leslie T. and Sara V. Harry Beattie, Kansas  
 name address  
 Nature of Deposit Dry Accessibility Good  
 Status of Site Open site; not sampled

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 Permian  
 Geological Source Morrill and Cottonwood Limestone Members  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry)  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks \_\_\_\_\_



MATERIAL SURVEY REPORT

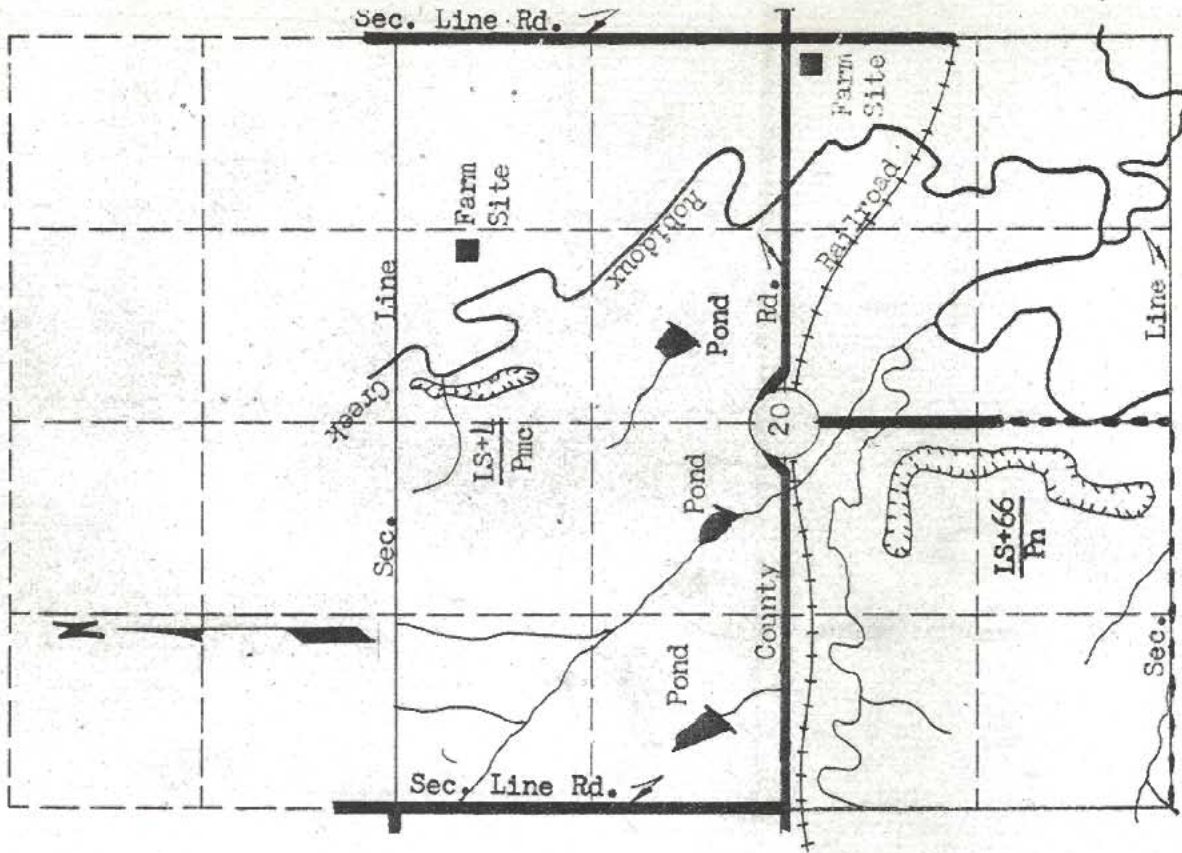
Site No. IS+4 Date June, 1965  
Pnc  
 Material Limestone County Marshall  
 Location NW $\frac{1}{4}$  NE $\frac{1}{4}$  Sec. 20 Twp. 2S Range 9E  
 Owner William J. and Gertrude A. Cain Beattie, Kansas  
name address  
 Nature of Deposit Dry Accessibility Fair  
 Status of Site Open site; not sampled

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Permian  
 Geological Source Morrill and Cottonwood Limestone Members  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks \_\_\_\_\_



STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

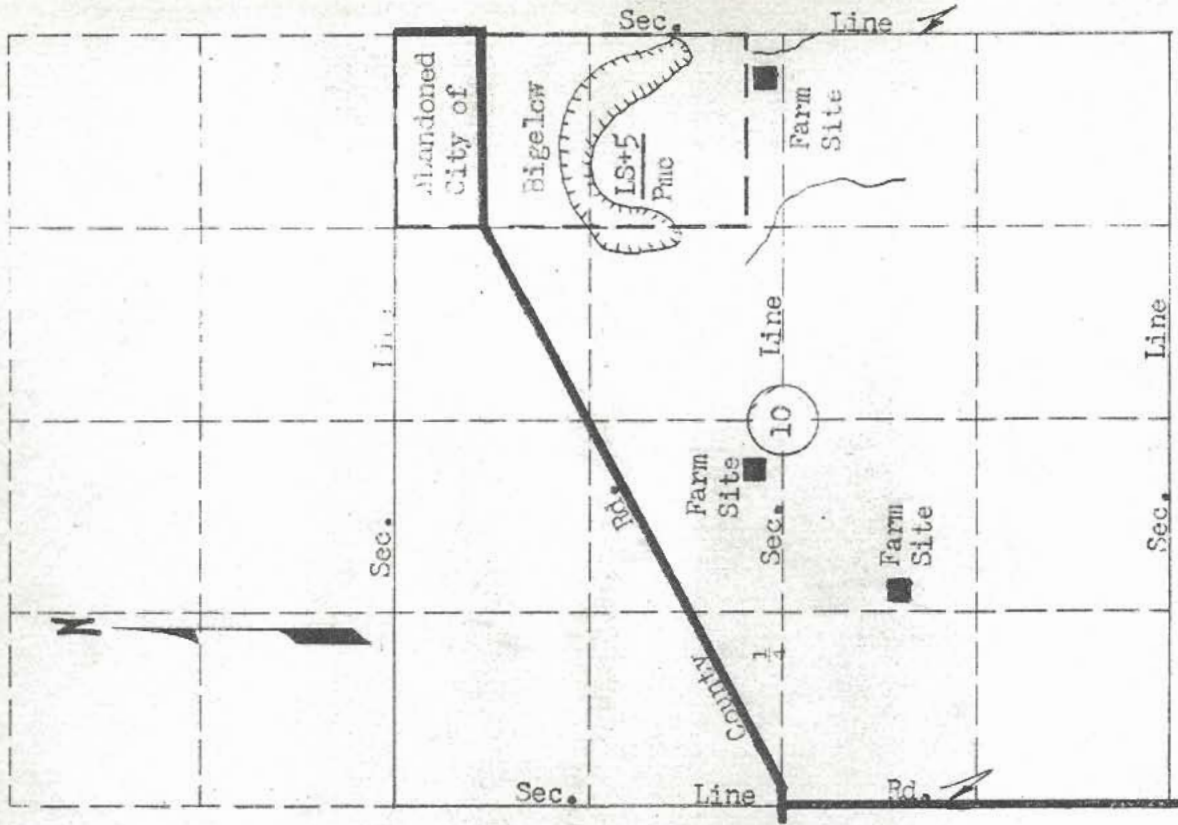
Site No. LS+5 Date June, 1965  
Pmc  
 Material Limestone County Marshall  
 Location NE 1/4 Sec. 10 Twp. 5S Range 8E  
 Owner Frank Rinehart Frankfort, Kansas  
 address  
 Nature of Deposit Dry Accessibility Good  
 Status of Site Open site; not sampled

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	1	3/8	1/2	3/4	1	3/8					

CORRELATION DATA

Geological Age Permian  
 Geological Source Cottonwood Limestone Member  
 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

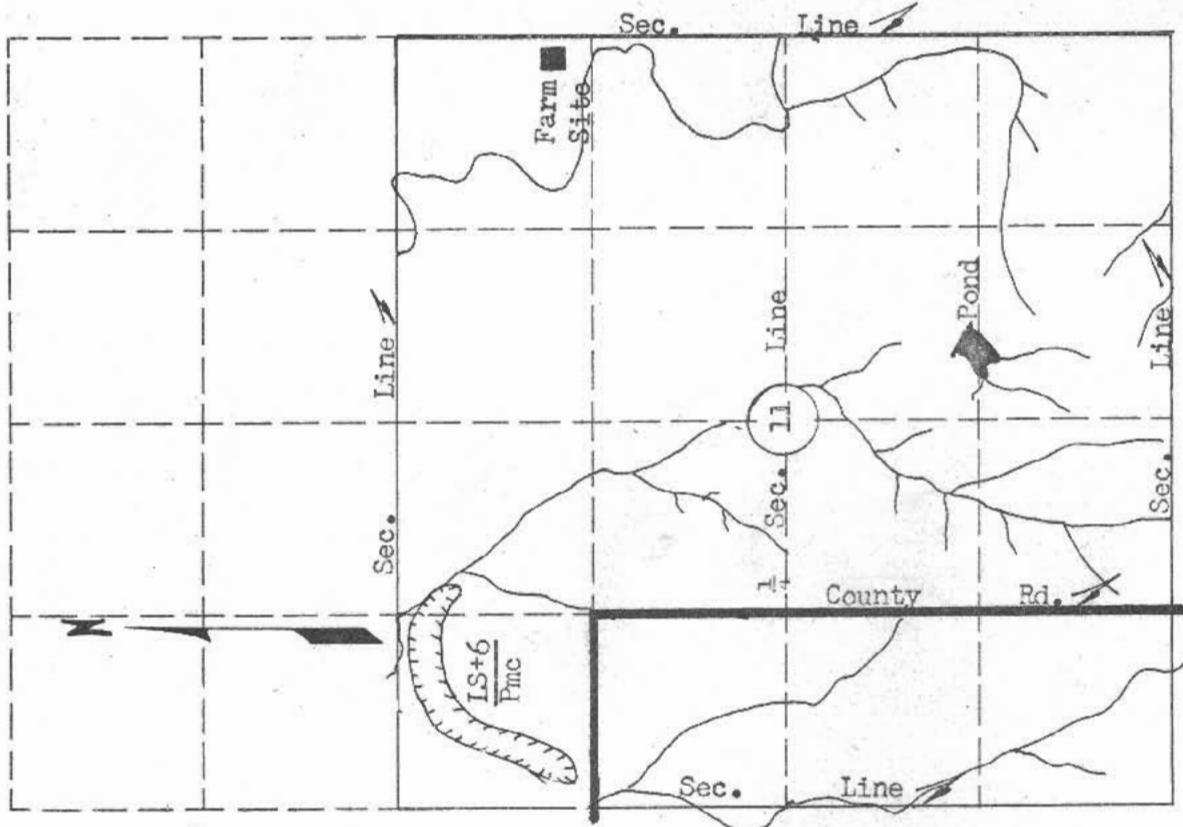
Site No. LS+6 Date June, 1965  
Pmc  
 Material Limestone County Marshall  
 Location NW<sup>1</sup>/<sub>4</sub> NW<sup>2</sup>/<sub>4</sub> Sec. 11 Twp. 5S Range 8E  
 Owner R. H. Waterman 400 Missouri Pacific Bldg. St. Louis,  
 name address Missouri  
 Nature of Deposit Dry Accessibility Fair  
 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				

CORRELATION DATA

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



MATERIAL SURVEY REPORT

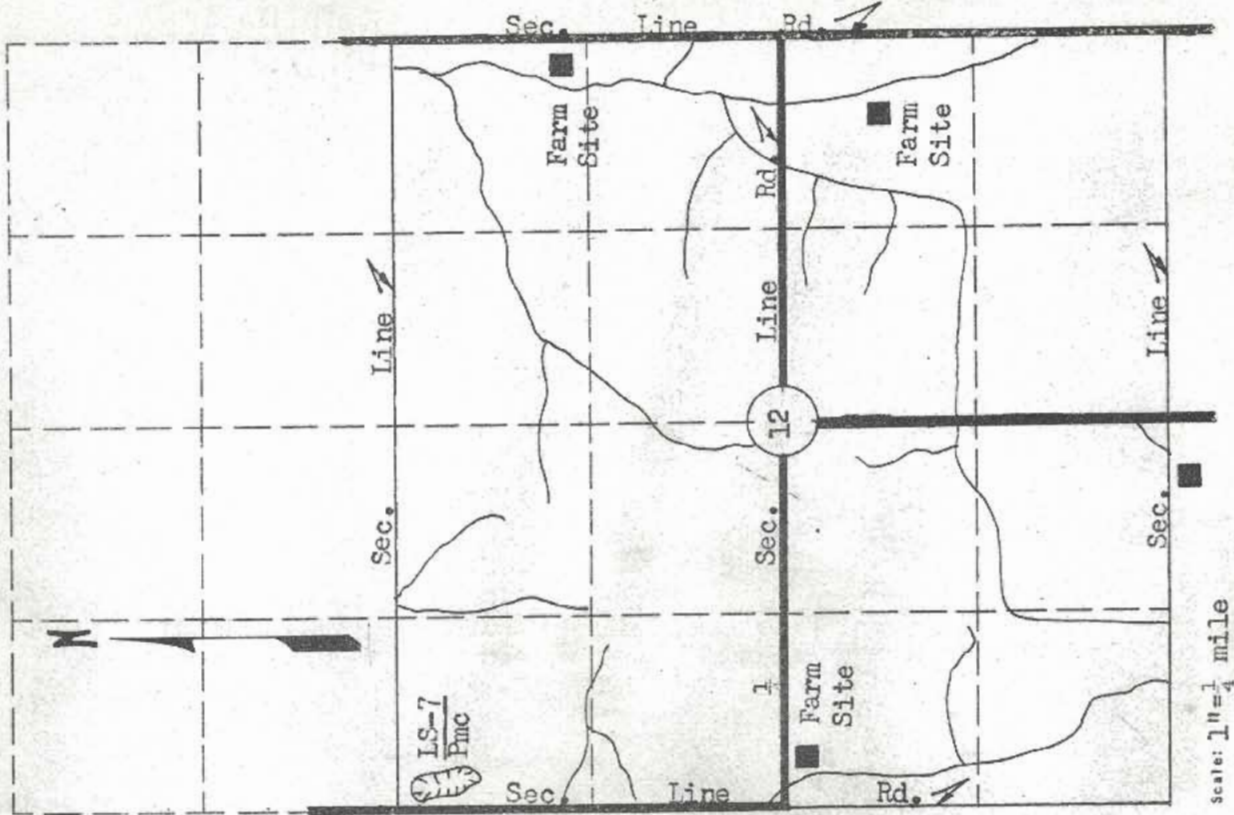
Site No. LS-7 Date June, 1965  
Pmc  
 Material Limestone County Marshall  
 Location NW $\frac{1}{4}$  Sec. 12 Twp. 5S Range 8E  
 Owner J. e. Maynard Reb R. R. 2 Blue Rapids, Kansas  
 name address  
 Nature of Deposit Dry Accessibility Good  
 Status of Site Open site; not sampled

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Permian  
 Geological Source Cottonwood Limestone Member  
 Material Similar to \_\_\_\_\_  
 Specific Gravity (sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
 Los Angeles Near \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Mt. Cu. Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks \_\_\_\_\_





MATERIAL SURVEY REPORT

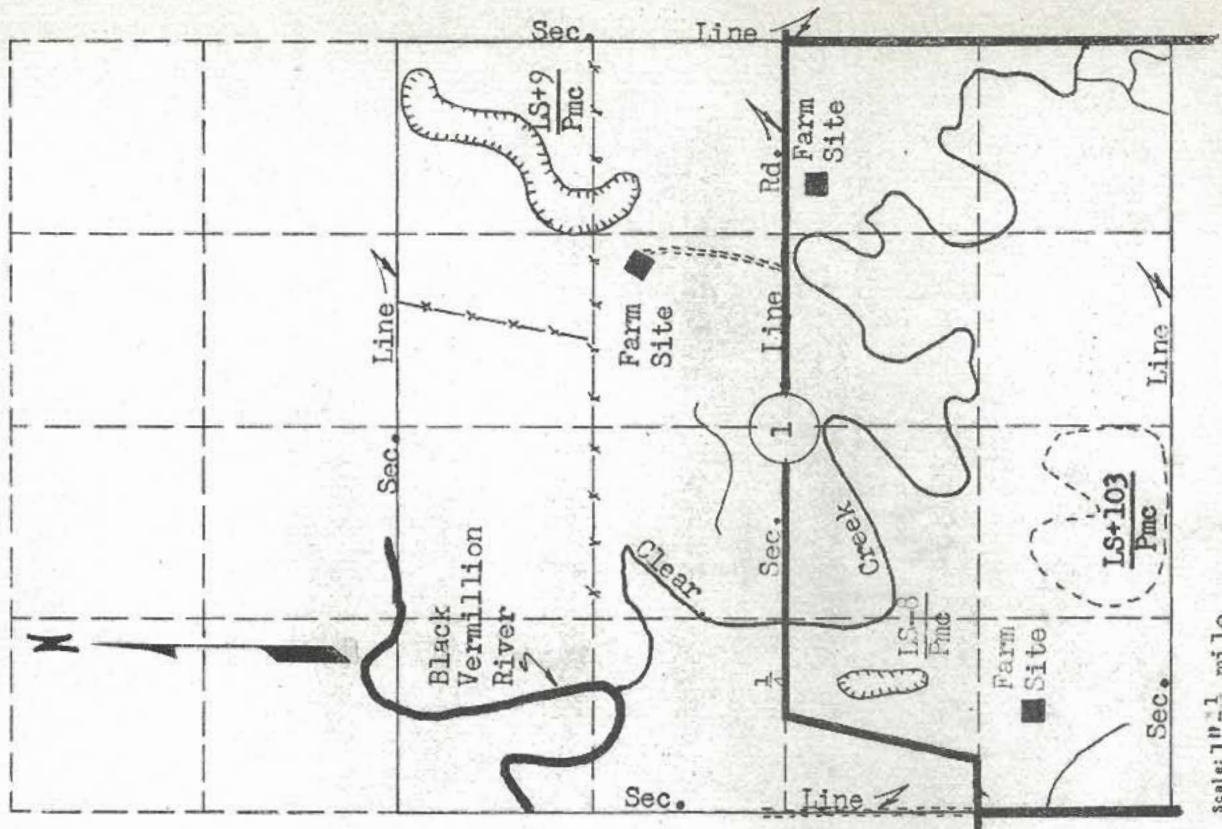
Site No. LS-8 Date June, 1965  
Pmc  
 Material Limestone County Marshall  
 Location NW 1/4 SW 1/4 Sec. 1 Twp. 5S Range 8E  
 Owner W. Paul and Fern F. Jones Frankfort, Kansas  
 address  
 Nature of Deposit Dry Accessibility Good  
 Status of Site Open site; not sampled

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



MATERIAL SURVEY REPORT

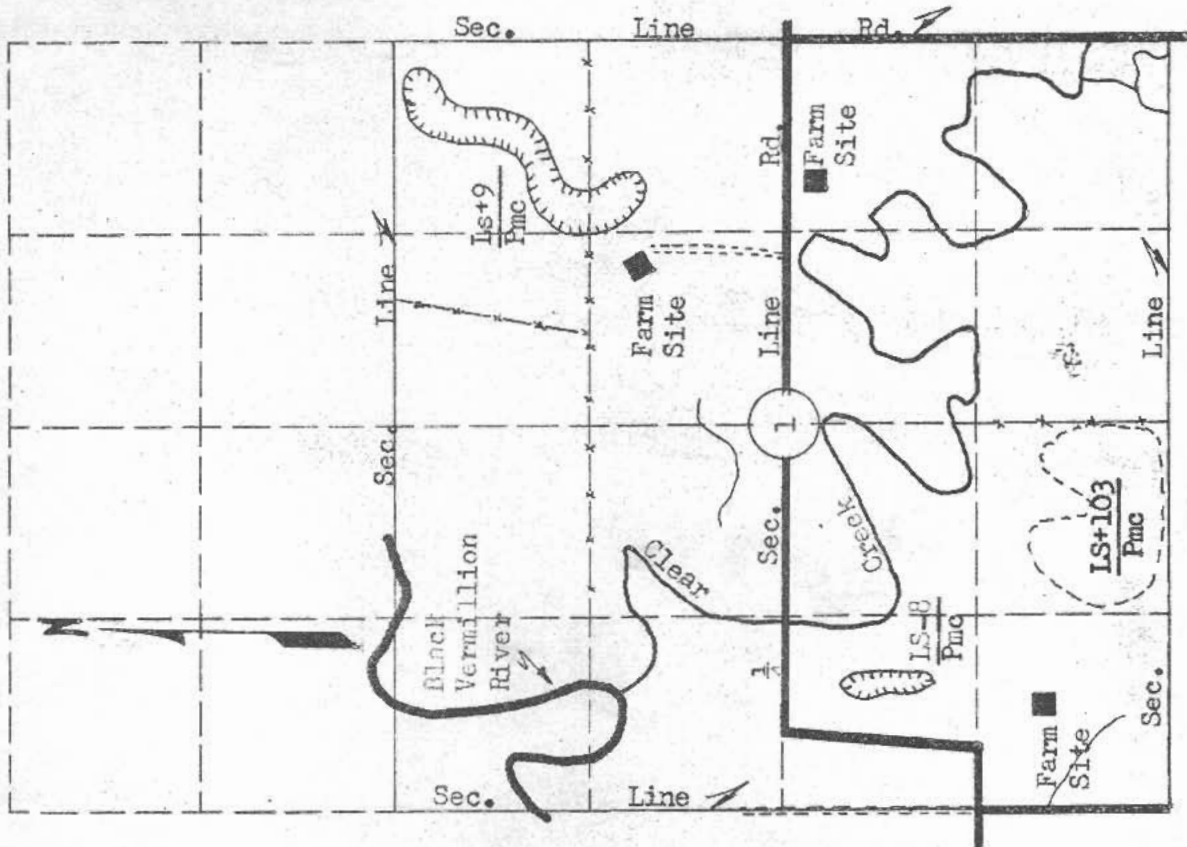
Site No. LS+9 Date June, 1965  
Pmc  
 Material Limestone County Marshall  
 Location NE 1/4 Sec. 1 Twp. 5S Range 8E  
 Owner W. Paul Jones address Frankfort, Kansas  
 Nature of Deposit Dry Accessibility Fair  
 Status of Site Open site; not sampled

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	1/4	3/16				

CORRELATION DATA

Geological Age Permian  
 Geological Source Cottonwood Limestone Member  
 Material Similar to \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Co. Fl. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks \_\_\_\_\_



MATERIAL SURVEY REPORT

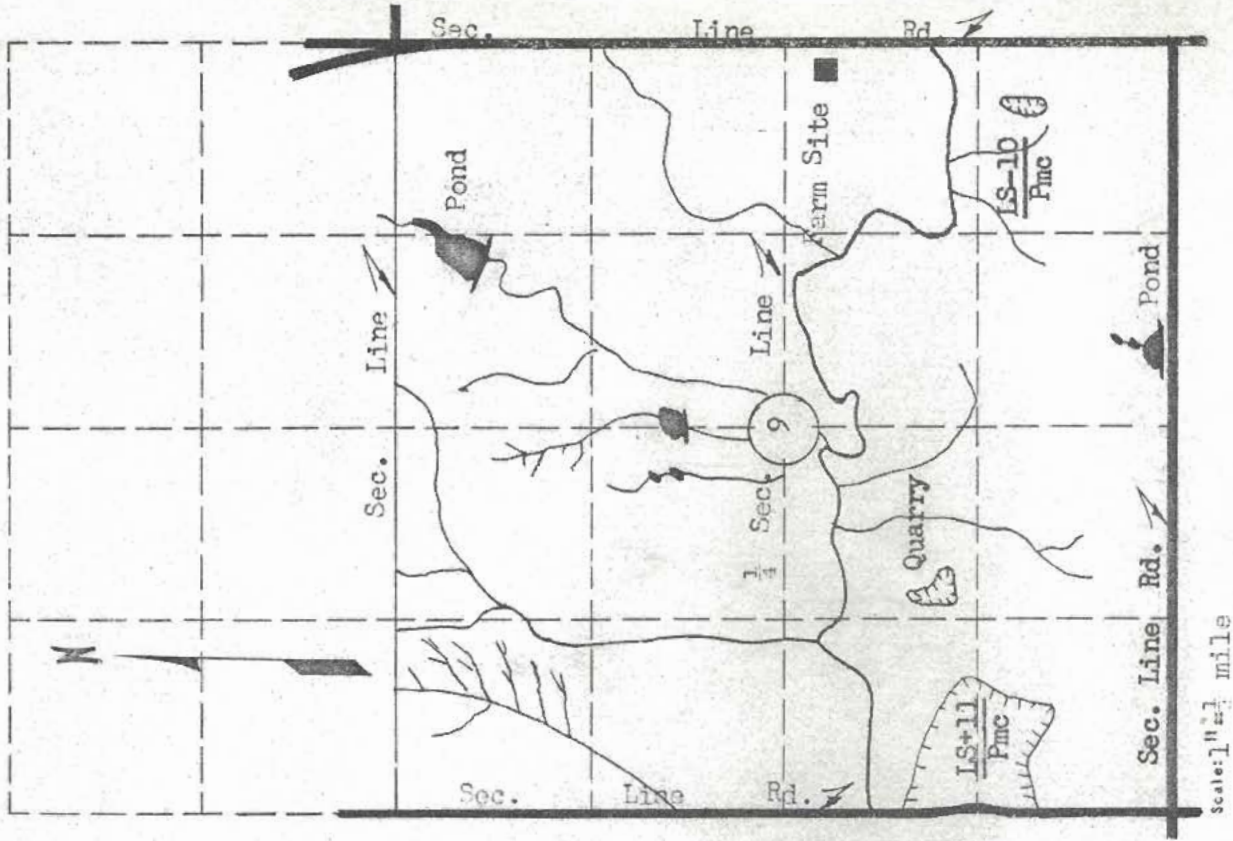
Site No. IS-10  
Pmc  
 Date June, 1965  
 Material Limestone County Marshall  
 Location SE 1/4 Sec 9 Twp. 5S Range 02E  
 Owner V. C. Leinweber Frankfort, Kansas  
 name address  
 Nature of Deposit Dry Accessibility Good  
 Status of Site Open site; not sampled

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	3/16	1/8	3/32					1/16		

CORRELATION DATA

Geological Age Permian  
 Geological Source Cottonwood Limestone Member  
 Material Similar to \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (dry)  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu. Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks \_\_\_\_\_



MATERIAL SURVEY REPORT

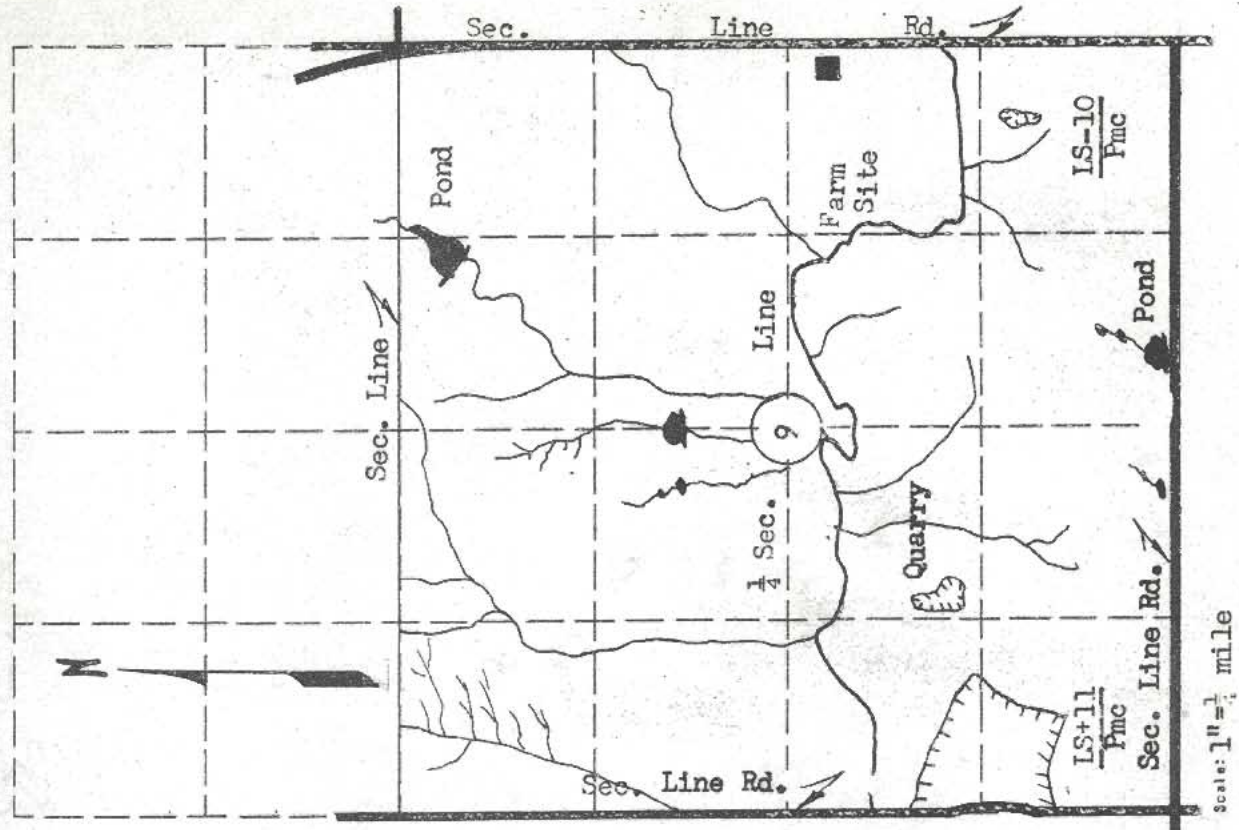
Site No. LS+11  
Pmc  
 Date June, 1965  
 County Marshall  
 Location SW $\frac{1}{4}$  SW $\frac{1}{4}$  Sec. 9 Twp. 5S Range 9E  
 Owner V. C. Leinweber Frankfort, Kansas  
 name address  
 Nature of Deposit Dry Accessibility Good  
 Status of Site Open site; not sampled

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	5/8	16	30	50					100	

CORRELATION DATA

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



MATERIAL SURVEY REPORT

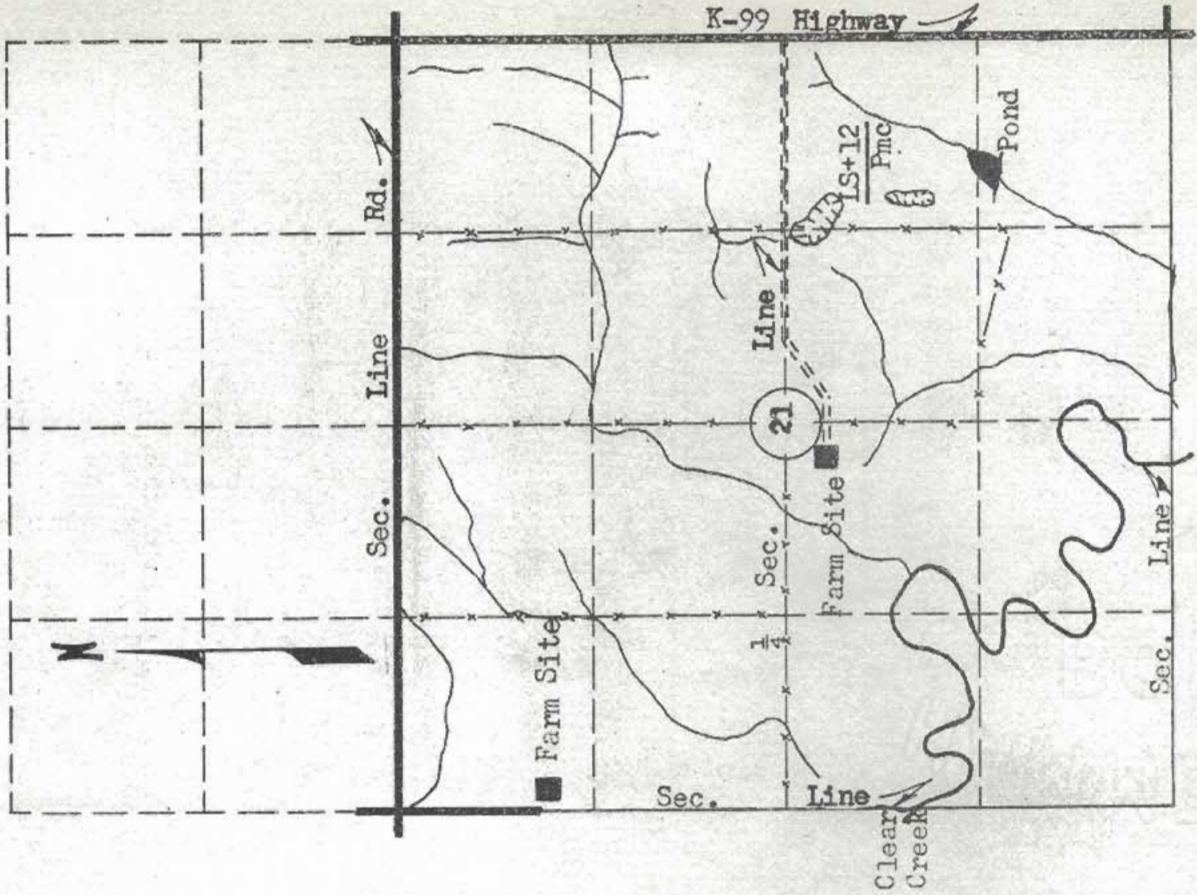
Site No. IS+12 Date June, 1965  
Pmc  
 Material Limestone County Marshall  
 Location N $\frac{1}{2}$  SE $\frac{1}{4}$  Sec. 21 Twp. 5S Range 9E  
 Owner Ina Morton Frankfort, Kansas  
 name address  
 Nature of Deposit Dry Accessibility Good  
 Status of Site Open site; not sampled

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	3/4	8	16				

CORRELATION DATA

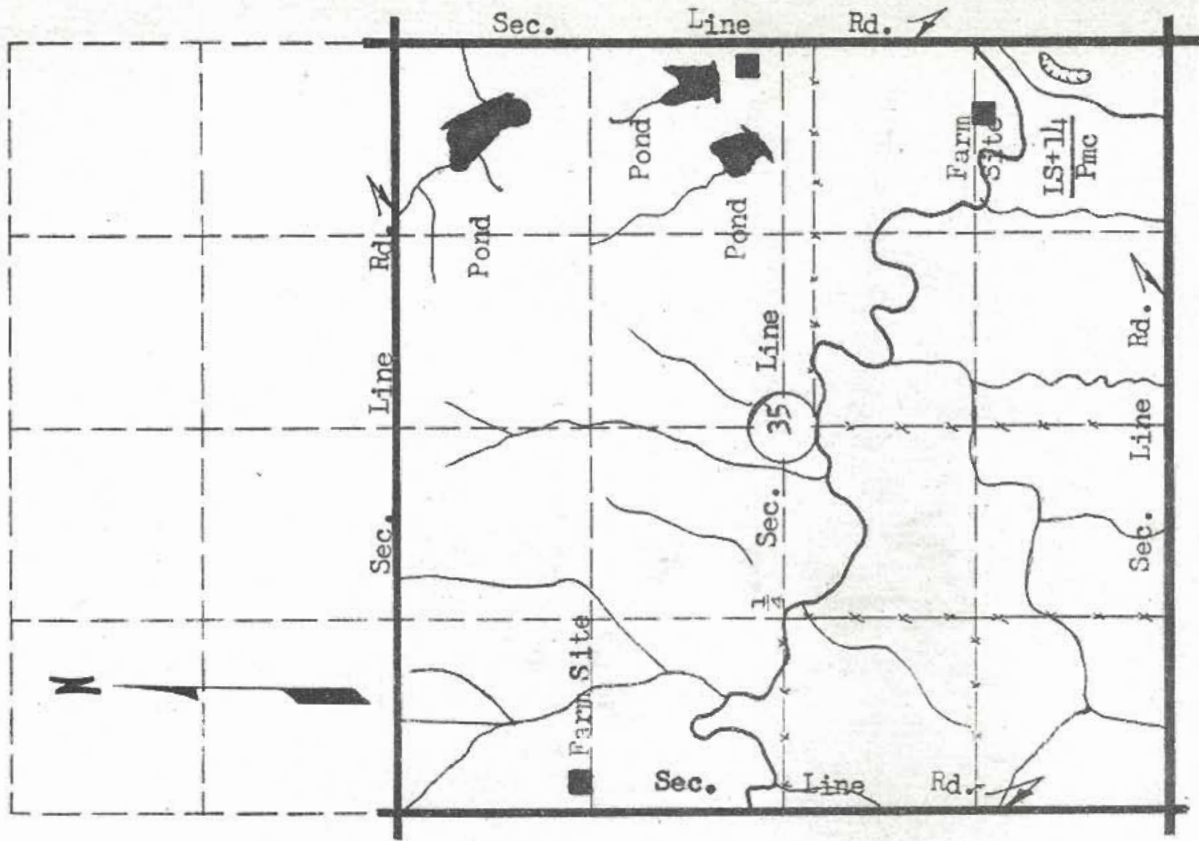
Geological Age Permian  
 Geological Source Cottonwood Limestone Member  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry)  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu-ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks This site has expansion possibilities.





MATERIAL SURVEY REPORT

Site No. LS+14  
Pmc  
 Material Limestone  
 Location SE $\frac{1}{4}$  SE $\frac{1}{4}$  Sec. 35 Twp. 3S Range 8E  
Lewis A. and Isla C. Harry Frankfort, Kansas  
 Owner Dry name address  
 Nature of Deposit Dry Accessibility Good  
 Status of Site Open site; not sampled



Scale: 1/4" = 1 mile

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

CORRELATION DATA

Geological Age Permian  
 Geological Source Morrill and Cottonwood Limestone  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Set.) \_\_\_\_\_ (dry)  
 Los Angeles Near \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Co.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks May have expansion possibilities to the south and west.





MATERIAL SURVEY REPORT

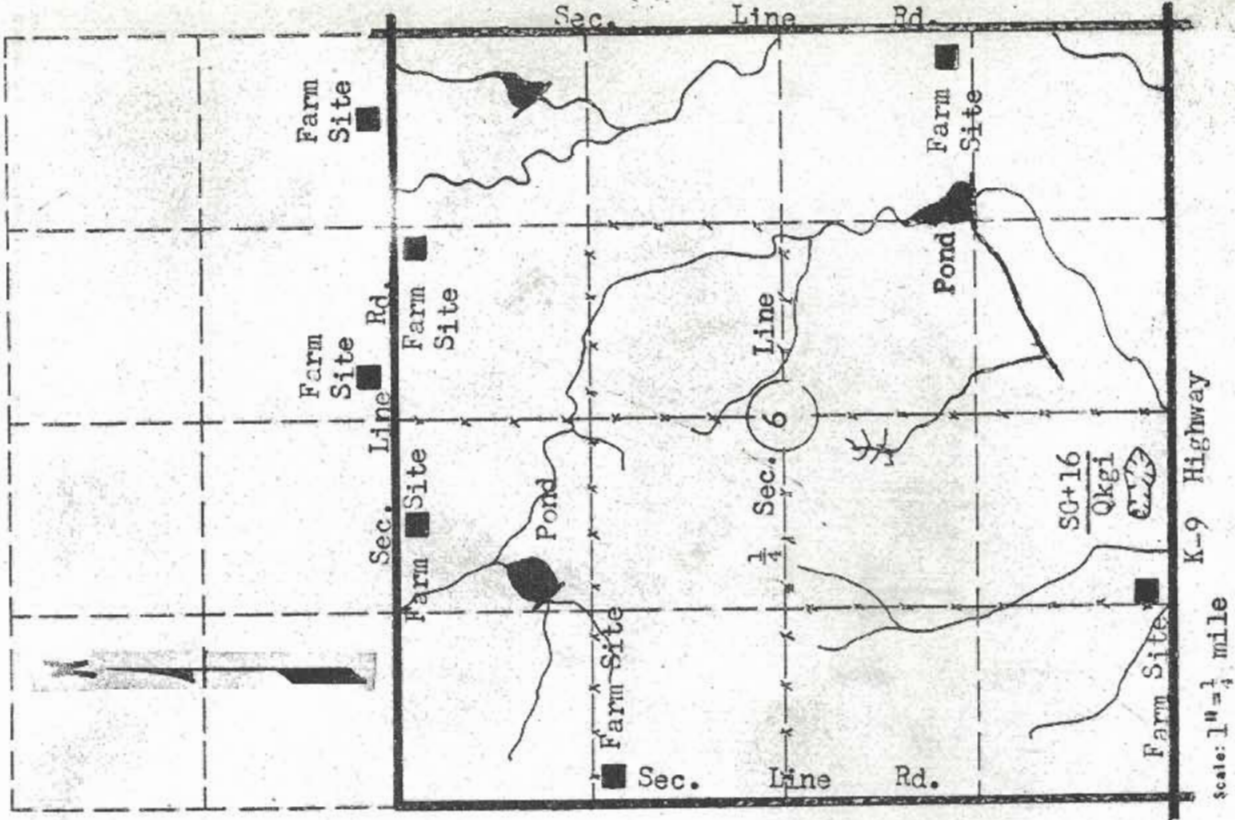
Site No. SG+16 Date June, 1965  
Qkgl  
 Material Sand and Gravel County Marshall  
 Location SE 1/4 SW 1/4 Sec. 6 Twp. 4S Range 10E  
 Owner Carl E. and Harriett A. Winquist address Vlets, Kansas  
 Nature of Deposit Dry Accessibility Good  
 Status of Site Open site; not sampled

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	3/16	1/8	1/16	1/32						

CORRELATION DATA

Geological Age Quaternary  
 Geological Source Grand Island Formation  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) (dry)  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks Pit contains clay-bound sand and gravel.





MATERIAL SURVEY REPORT

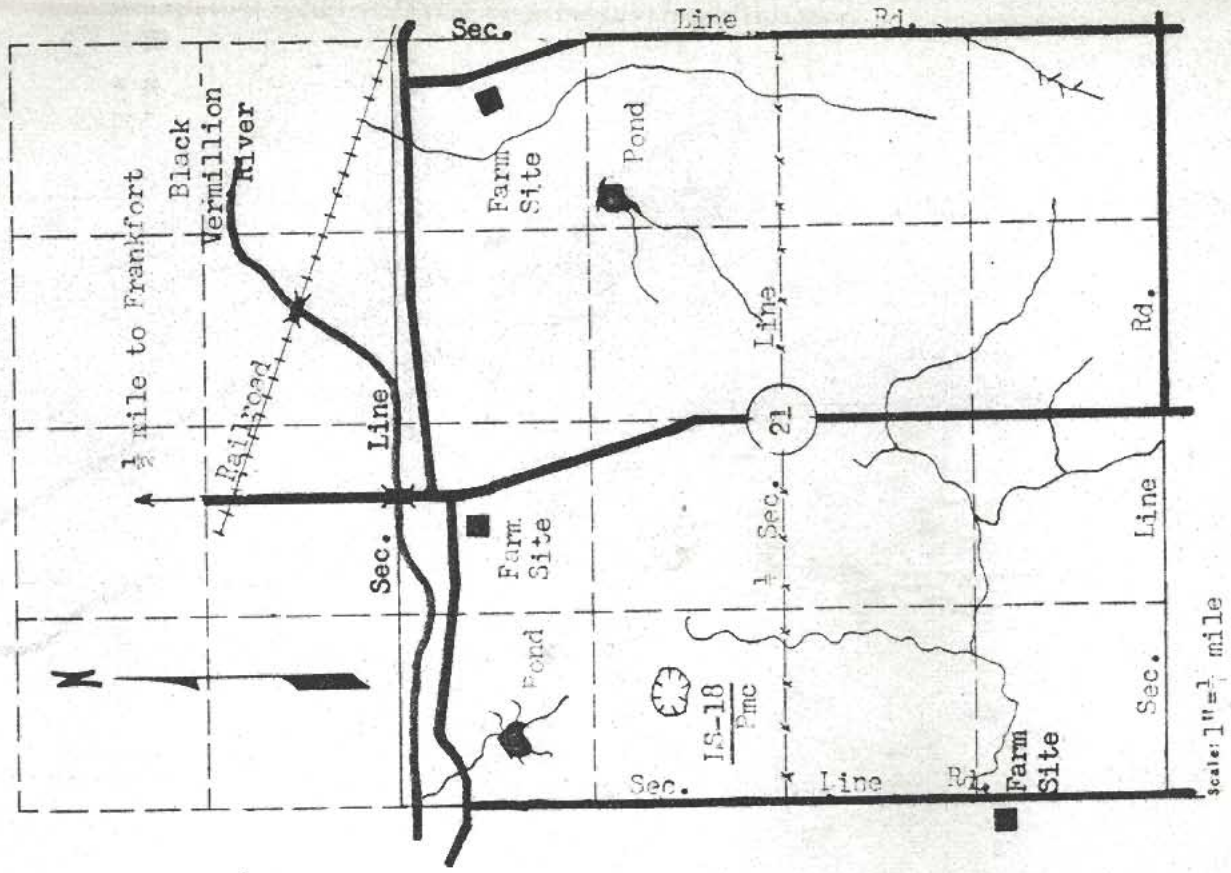
IS-18  
Pmc  
Site No. \_\_\_\_\_ Date June, 1965  
Material Limestone County Marshall  
Location SW 1/4 NW 1/4 Sec. 21 Twp. 4S Range 9E  
Owner Rex J. and Rita M. Schneider Beattie, Kansas  
address  
Nature of Deposit Dry Accessibility Poor  
Status of Site Open site; not sampled

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Permian  
Geological Source Cottonwood Limestone Member  
Material Similar to \_\_\_\_\_  
Specific Gravity (Sat.) \_\_\_\_\_ (Dry)  
Los Angeles Wear \_\_\_\_\_  
Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
Mt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
Remarks \_\_\_\_\_



MATERIAL SURVEY REPORT

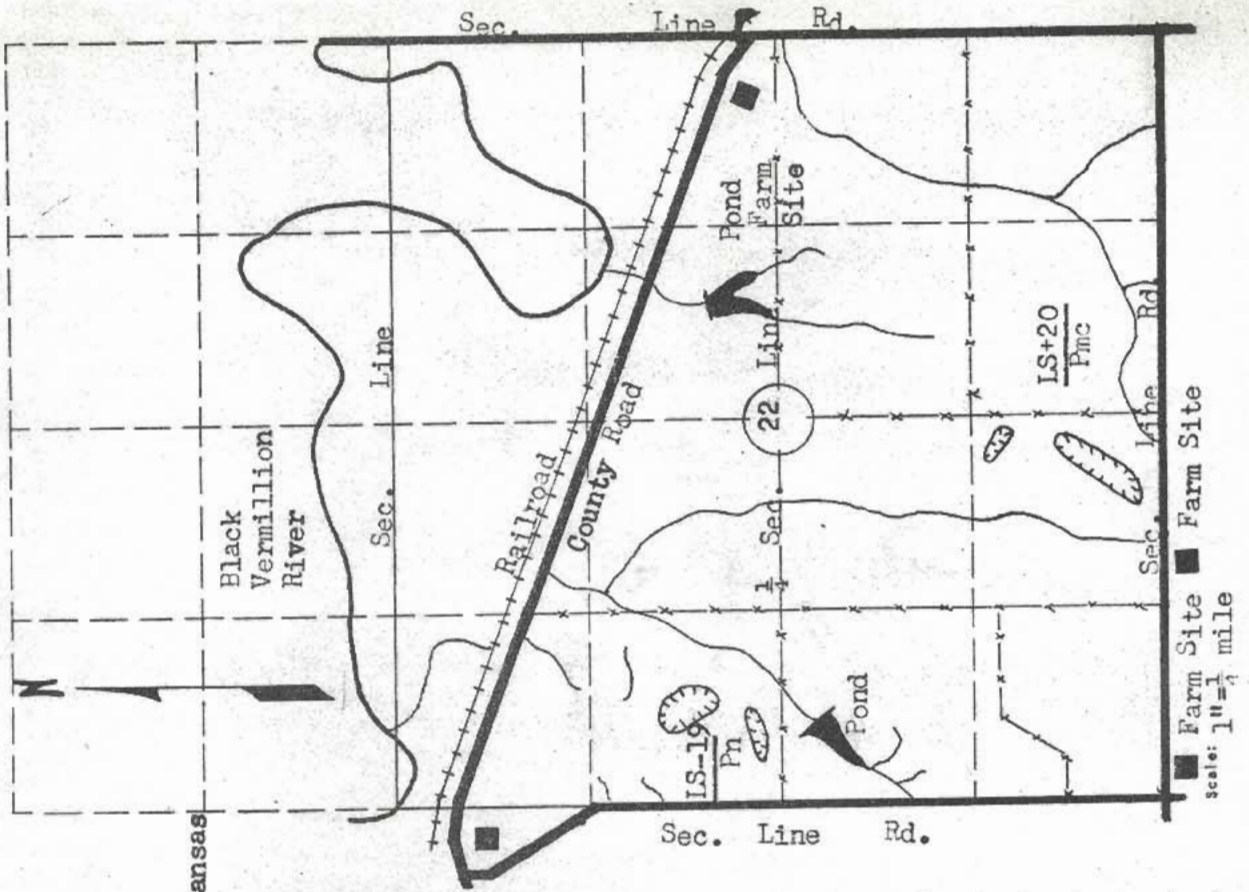
Site No. LS-19 Date June, 1965  
Pn  
 Material Limestone County Marhsall  
 Location SW<sup>1</sup>/<sub>4</sub> NW<sup>1</sup>/<sub>4</sub> Sec. 22 Twp. 4S Range 9E  
 Owner H. E. and Wilma M. Frank 808 Willard Pl. Manhattan, Kansas  
 Nature of Deposit Dry Accessibility Poor  
 Status of Site Open 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 1/2	3/4	3/8	4	8	16					30	50	100			

CORRELATION DATA

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



MATERIAL SURVEY REPORT

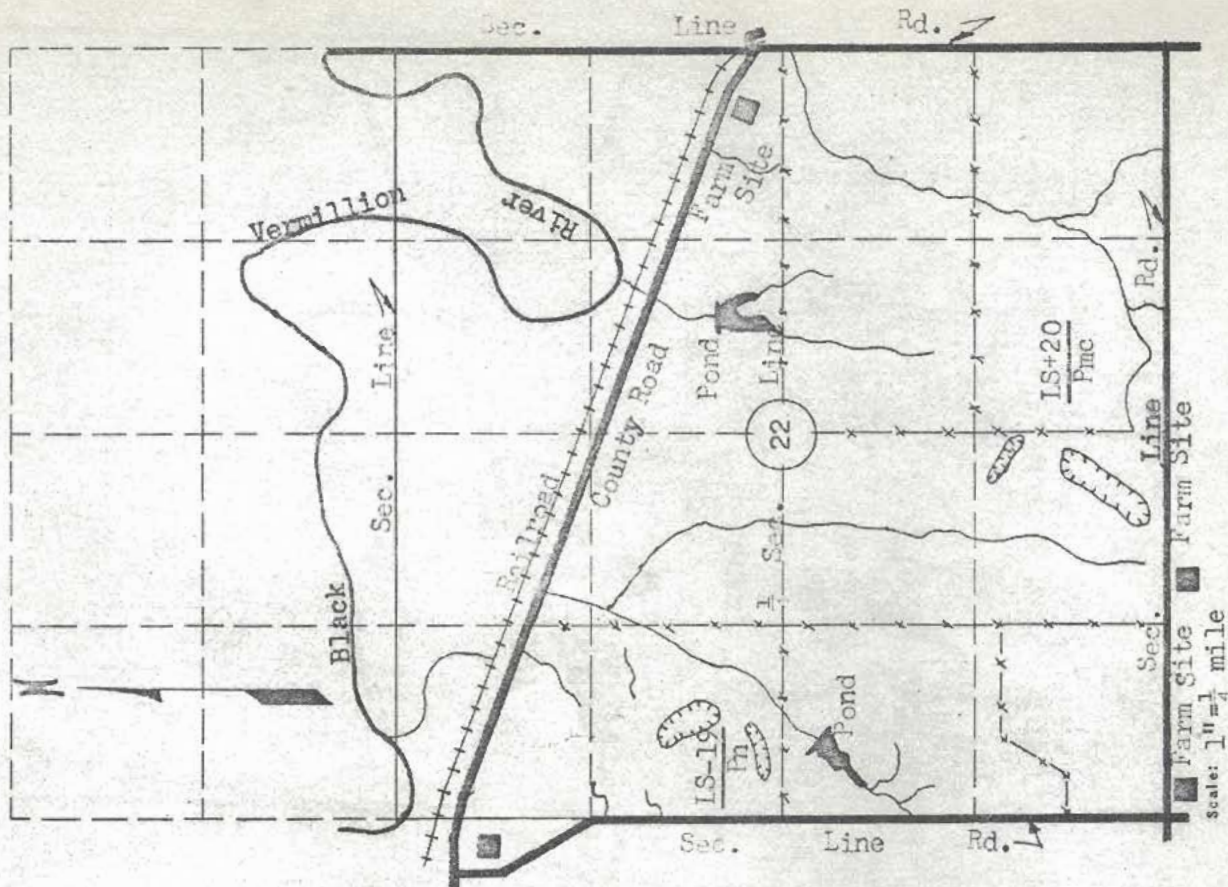
Site No. IS+20 Date June, 1965  
Pinc  
 Material Limestone County Marshall  
 Location SE<sup>1</sup> SW<sup>1</sup><sub>4</sub> Sec. 22 Twp. 14S Range 9E  
 Owner Oren and Ila A. Hull address Frankfort, Kansas  
 name  
 Nature of Deposit Dry Accessibility Fair  
 Status of Site Open site; not sampled

EXPLORATION DATA

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

CORRELATION DATA

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



MATERIAL SURVEY REPORT

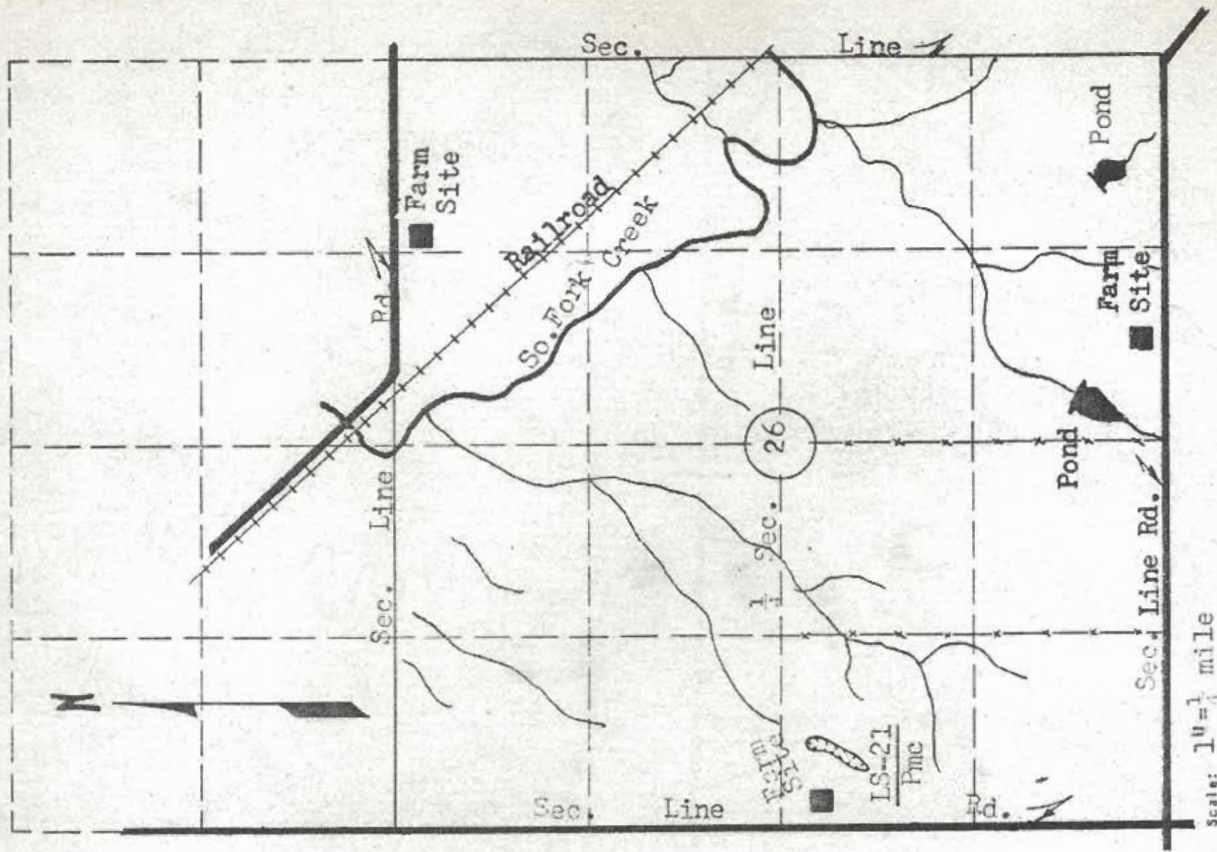
Site No. IS-21  
Pmc  
 Date June, 1965  
 Material Limestone County Marshall  
 Location NW<sup>1</sup> SW<sup>4</sup> Sec. 26 Twp. 4S Range 9E  
 Owner Raymond and Margaret Kurtz Frankfort, Kansas  
address  
 Nature of Deposit Dry Accessibility Fair  
 Status of Site Open site; not sampled

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 1/2	3/4	3/8	4	8	16	30					50	100	200		

CORRELATION DATA

Geological Age Permian  
 Geological Source Cottonwood Limestone Member  
 Material Similar to \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry)  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Co.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks \_\_\_\_\_



MATERIAL SURVEY REPORT

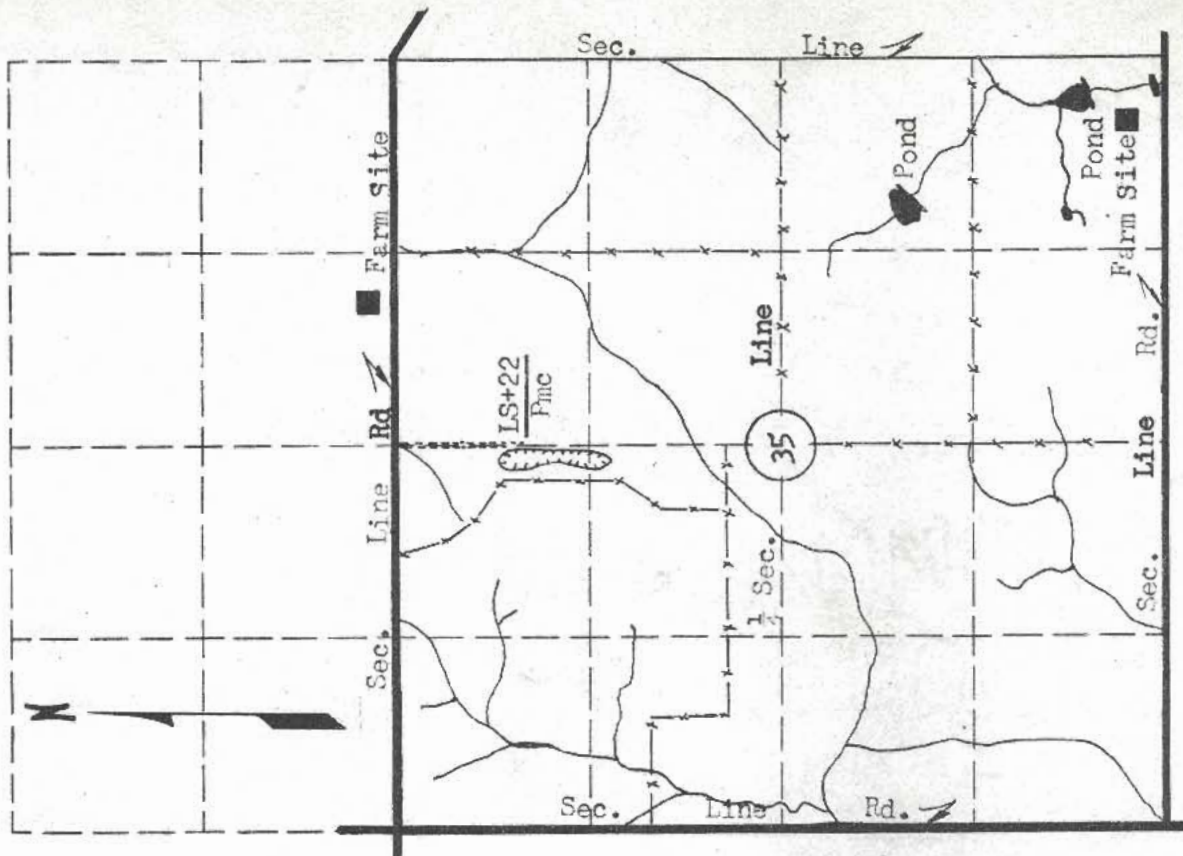
Site No. LS+22 Date June, 1965  
Pmc  
 Material Limestone County Marshall  
 Location NW<sup>1</sup>/<sub>4</sub> Sec. 35 Twp. 14S Range 9E  
 Owner John T. and George R. Farrell Frankfort, Kansas  
 address  
 Nature of Deposit Dry Accessibility Fair  
 Status of Site Open site; not sampled

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 Permian  
 Geological Source Cottorwood Limestone Member  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks This site may be expanded to the west.



Scale: 1" = 1/4 mile

MATERIAL SURVEY REPORT

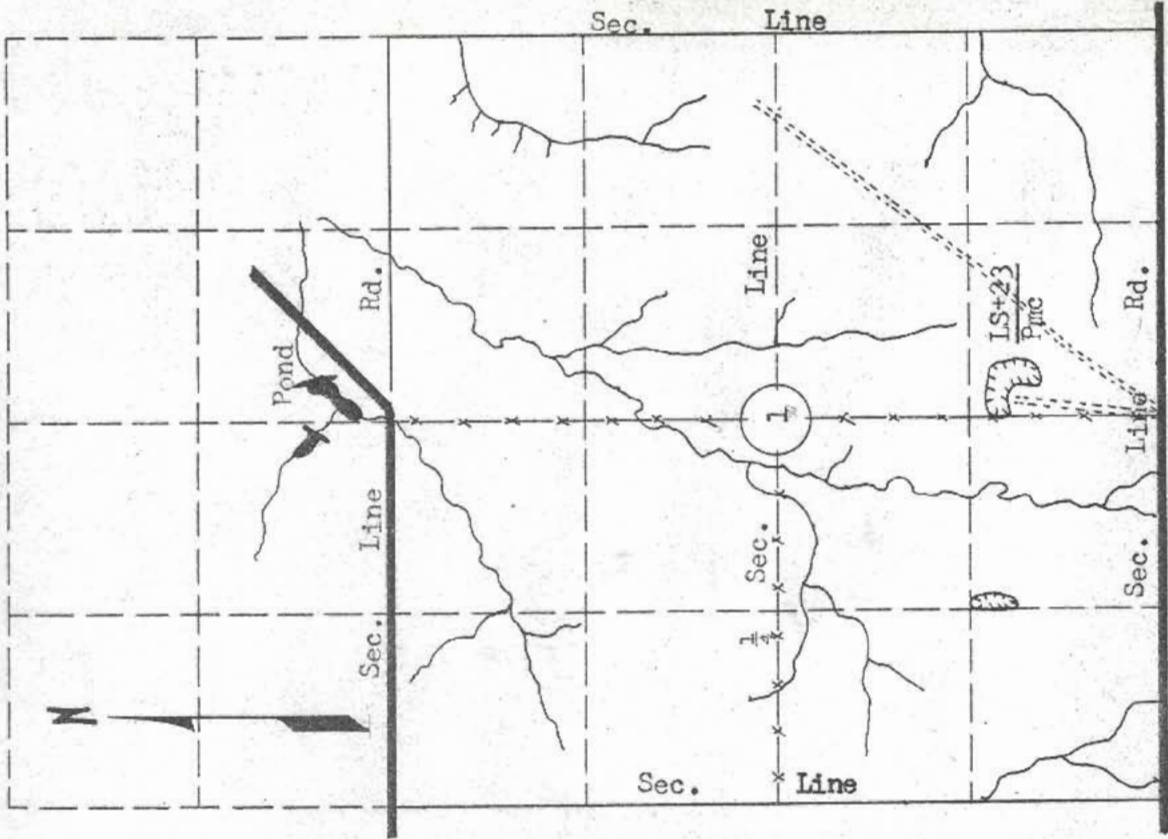
Site No. LS+23  
Pinc  
 Material Limestone  
 Location S1/2 Sec. 1 Twp. 5S Range 9E  
 County Marshall  
 Owner James M. Rhodes c/o Walter F. Zoellner, Frankfort, Kansas  
 name address  
 Nature of Deposit: Dry Accessibility Good  
 Status of site Open site; not sampled

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 Permian  
 Geological Source Cottonwood Limestone Member  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry)  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu-ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks This site has expansion possibilities.



Scale: 1" = 1/4 mile



MATERIAL SURVEY REPORT

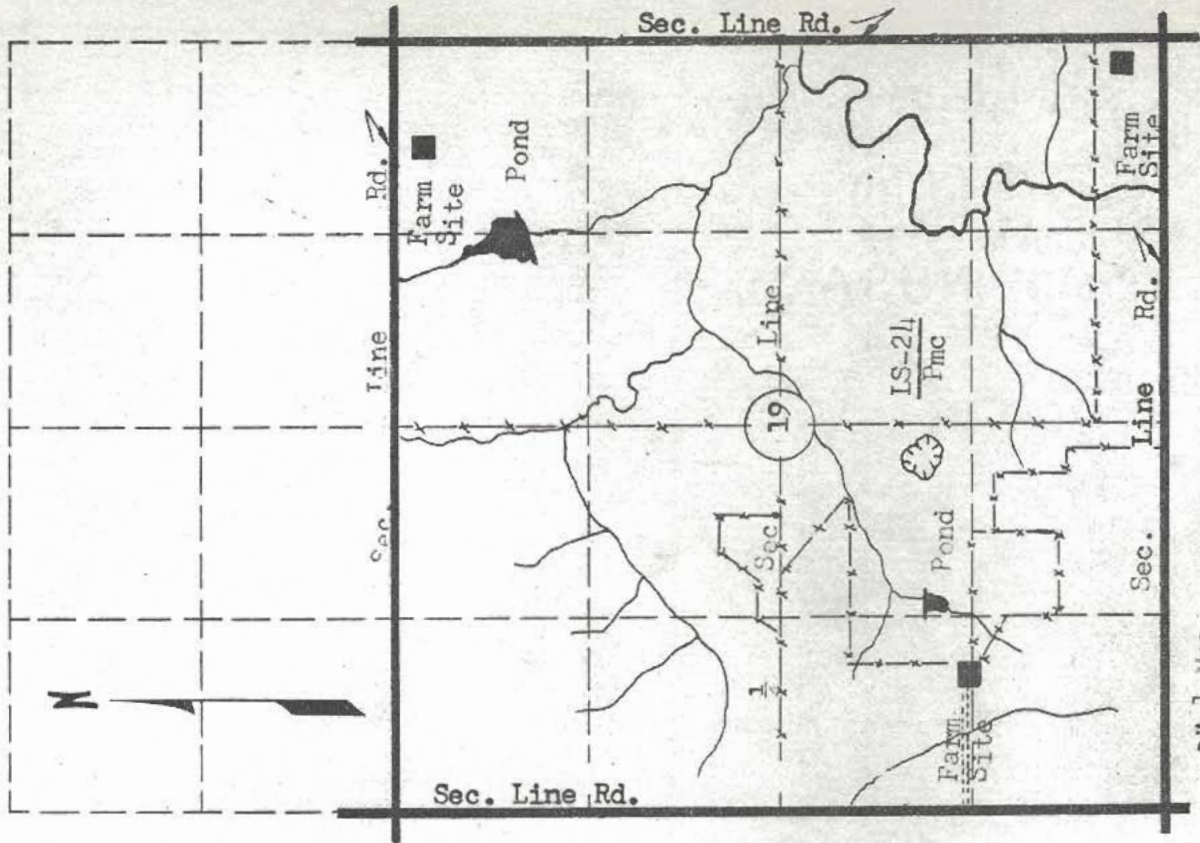
Site No. IS-24 Date June, 1965  
Pmc  
 Material Limestone County Marshall  
 Location NE 1/4 SW 1/4 Sec. 19 Twp. 5S Range 10E  
 Owner Leonard L. and Mary Lou Boeckman Frankfort, Kansas  
 name address  
 Nature of Deposit Dry Accessibility Poor  
 Status of Site Open site; not sampled

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



MATERIAL SURVEY REPORT

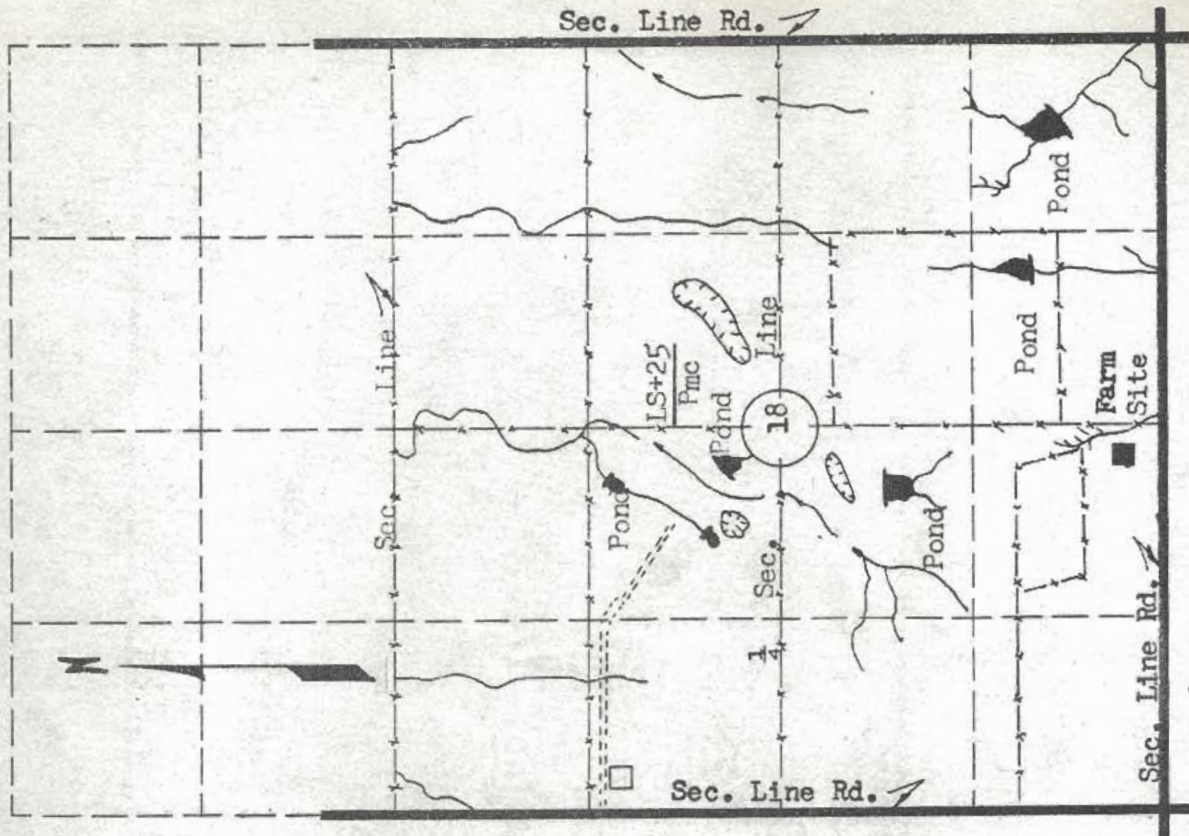
Site No. LS+25  
Fmc  
 Material Limestone  
 Location Center Sec. 18 Twp. 5S Range 10E  
 Owner R. J. Weinert Frankfort, Kansas  
 address  
 Nature of Deposit Dry Accessibility Fair  
 Status of Site Open site; not sampled

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 Permian  
 Geological Source Cottonwood Limestone Member  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (dry)  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks May have expansion possibilities.



Scale: 1" = 1/4 mile

MATERIAL SURVEY REPORT

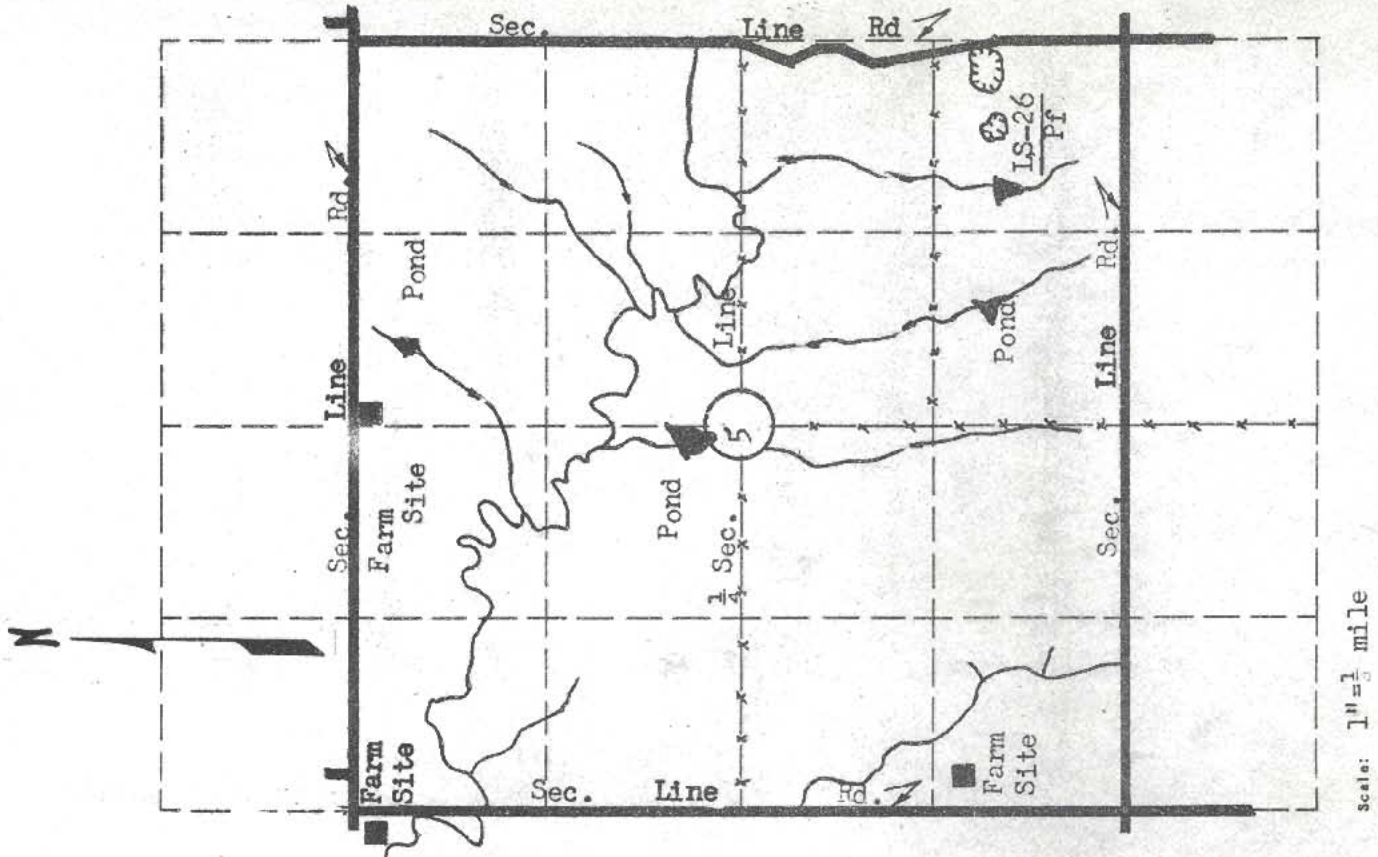
Site No. LS-26  
Pf  
 Date June, 1965  
 County Marshall  
 Material Limestone  
 Location SE $\frac{1}{4}$  SE $\frac{1}{4}$  Twp. 1S Range 9E  
 Owner Mary and Fred Egothoff Pawnee City, Nebraska  
 name address  
 Nature of Deposit Dry Accessibility Good  
 Status of Site Open site; not sampled

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.L.
				1/2	3/4	1	15	30	50				

CORRELATION DATA

Geological Age Permian  
 Geological Source Florence Limestone Member  
 Material Similar to \_\_\_\_\_  
 Specific Gravity (Set.) \_\_\_\_\_ (Dry)  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks \_\_\_\_\_



STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

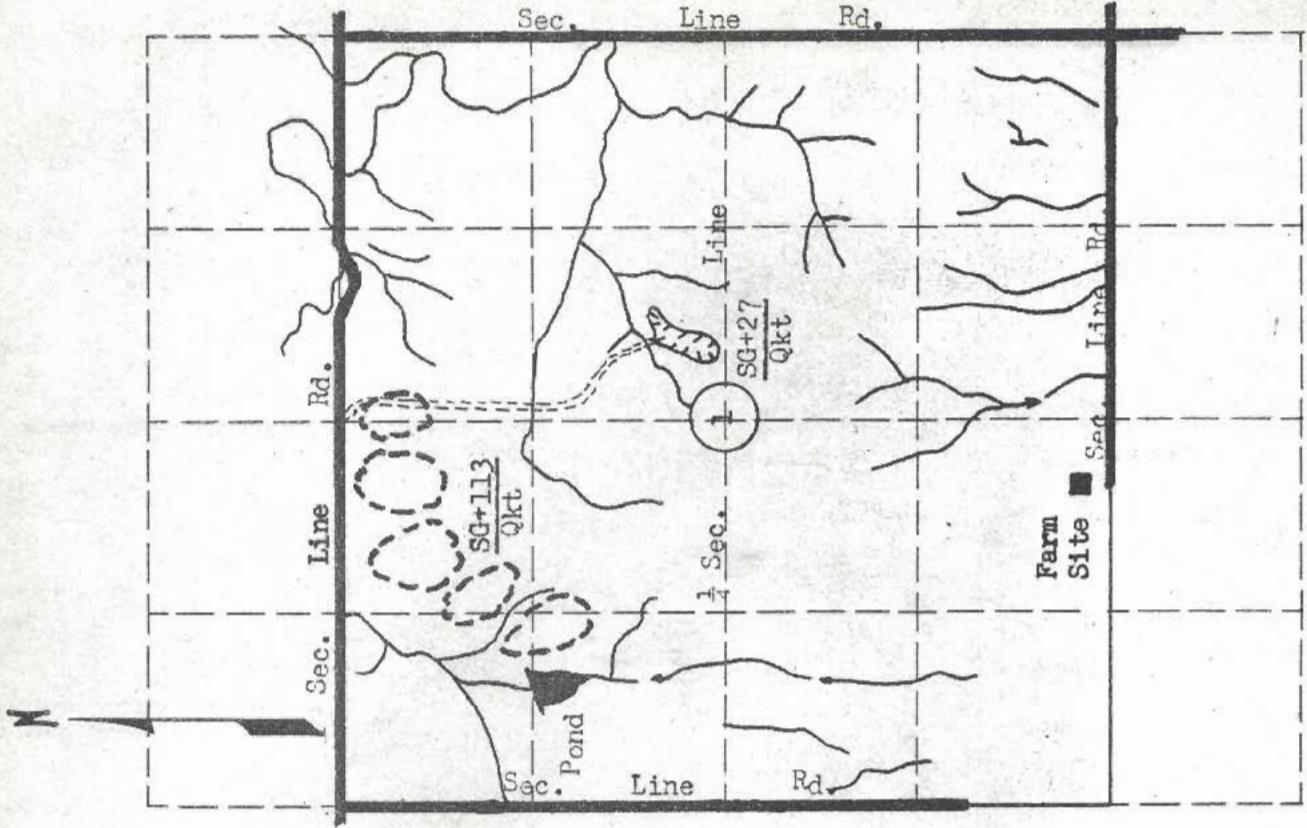
Site No. SG+27  
Qkt  
 Material Sand and Gravel  
 Location SW 1/4 NE 1/4 sec. 1 Twp. 1S Range 10E  
 Owner Wm. F. and Irene F. Koch name Axtell, Kansas address  
 Nature of Deposit Dry Accessibility Good  
 Status of Site Open site; not sampled

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Quaternary  
 Geological Source Kansan Till  
 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

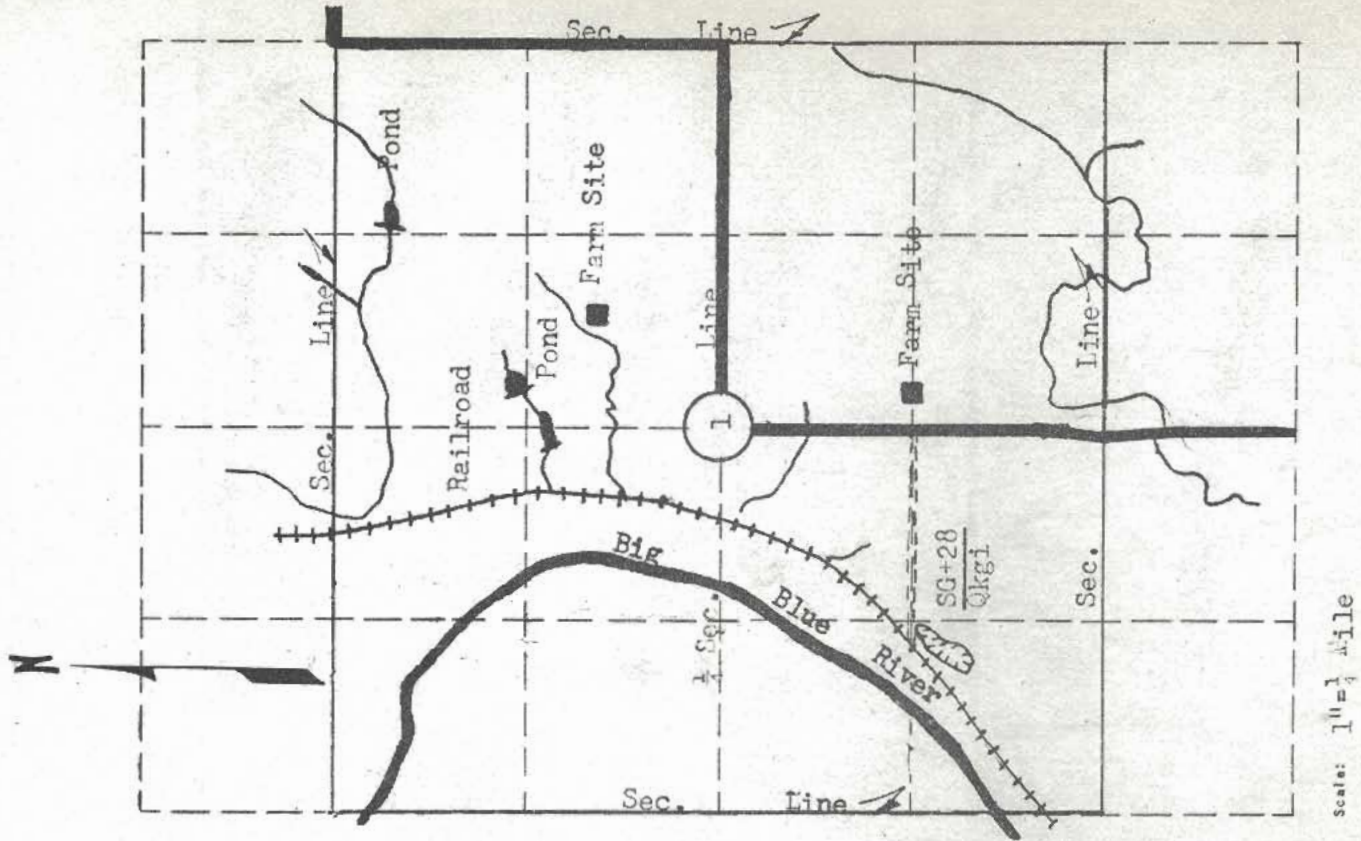
Site No. SG+28 Date June, 1965  
Qkgi  
 Material Sand and Gravel County Marshall  
 Location SW 1/4 Sec. 1 Twp. 1S Range 7E  
 Owner Marvin J. Argo Oketo, Kansas  
 Nature of Deposit Dry Accessibility Good  
 Status of Site Open sites not sampled

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	2	4				

CORRELATION DATA

Geological Age Quaternary  
 Geological Source Grand Island Formation  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks \_\_\_\_\_



MATERIAL SURVEY REPORT

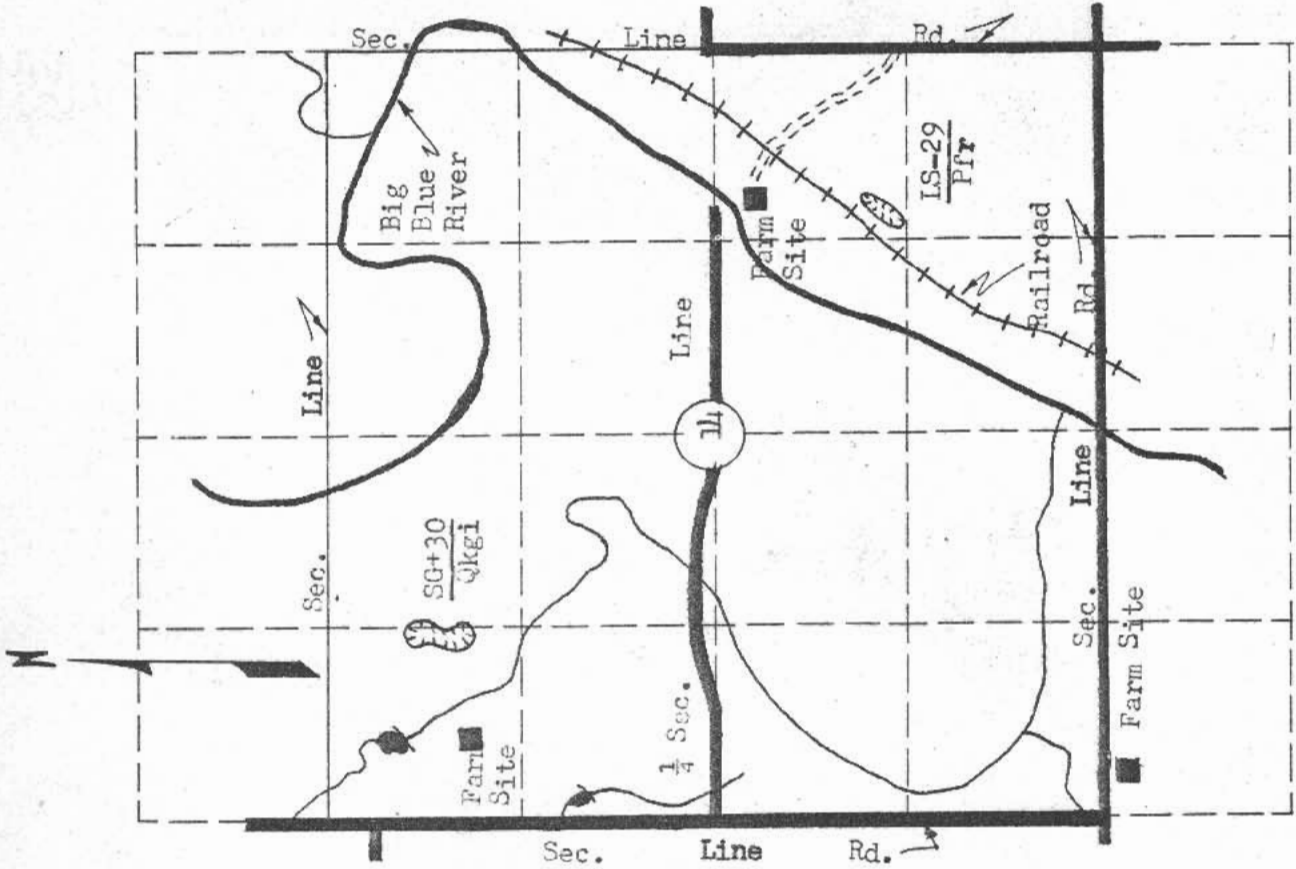
Site No. LS-29  
Pfr  
 Material Limestone  
 Location SE 1/4 Sec. 14 Twp. 1S Range 7E  
 Owner City of Oketo address Oketo, Kansas  
 Nature of Deposit Dry Accessibility Poor  
 Status of Site Open site; not sampled

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 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" = 1/4 mile

MATERIAL SURVEY REPORT

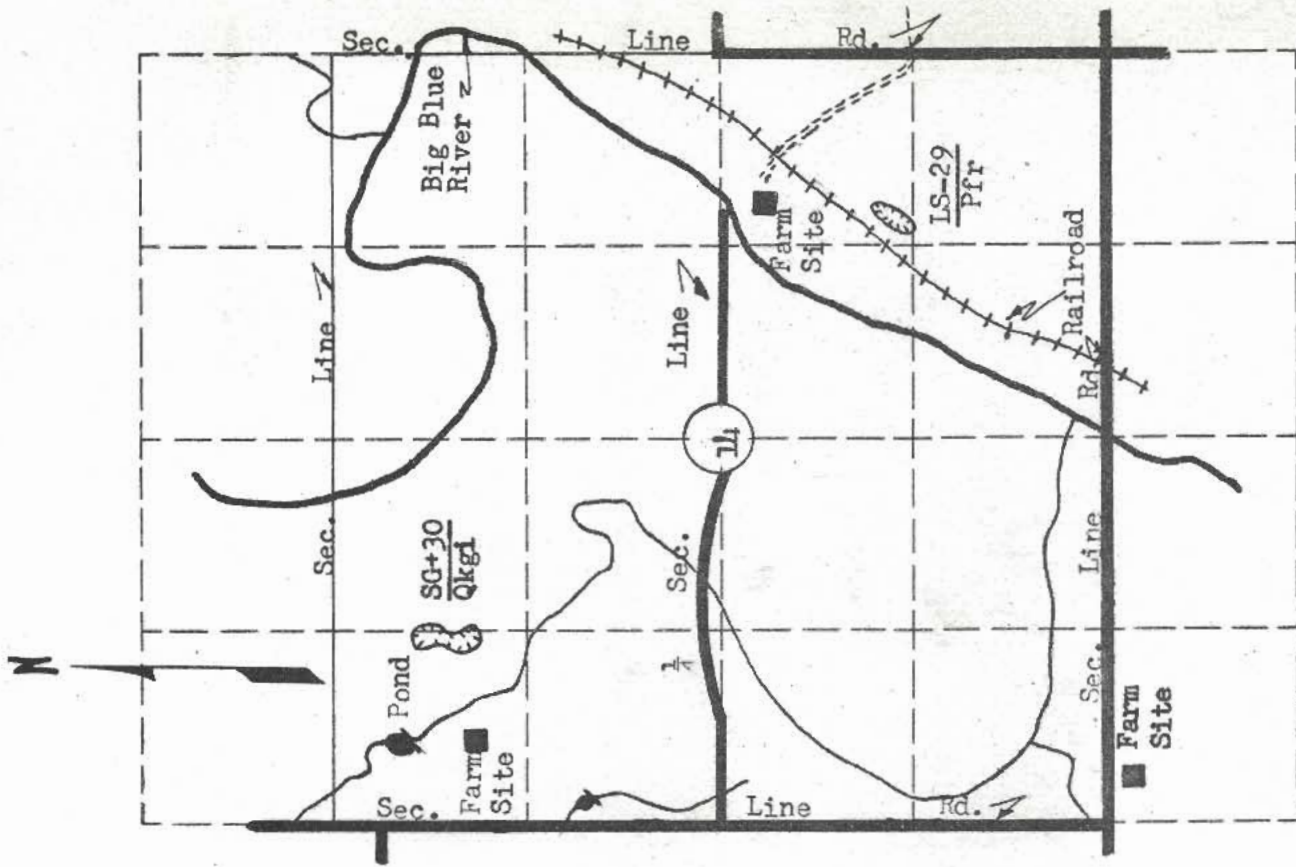
Site No. SG+30 Date June, 1965  
Qkg1  
 Material Sand and Gravel County Marshall  
 Location N $\frac{1}{2}$  NW $\frac{1}{4}$  Sec. 14 Twp. 1S Range 7E  
 Owner Irvin J. and Matie M. Badnar Oketo, Kansas  
 address  
 Nature of Deposit Dry Accessibility Good  
 Status of Site Open site; not sampled

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 Quaternary  
 Geological Source Grand Island Formation  
 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

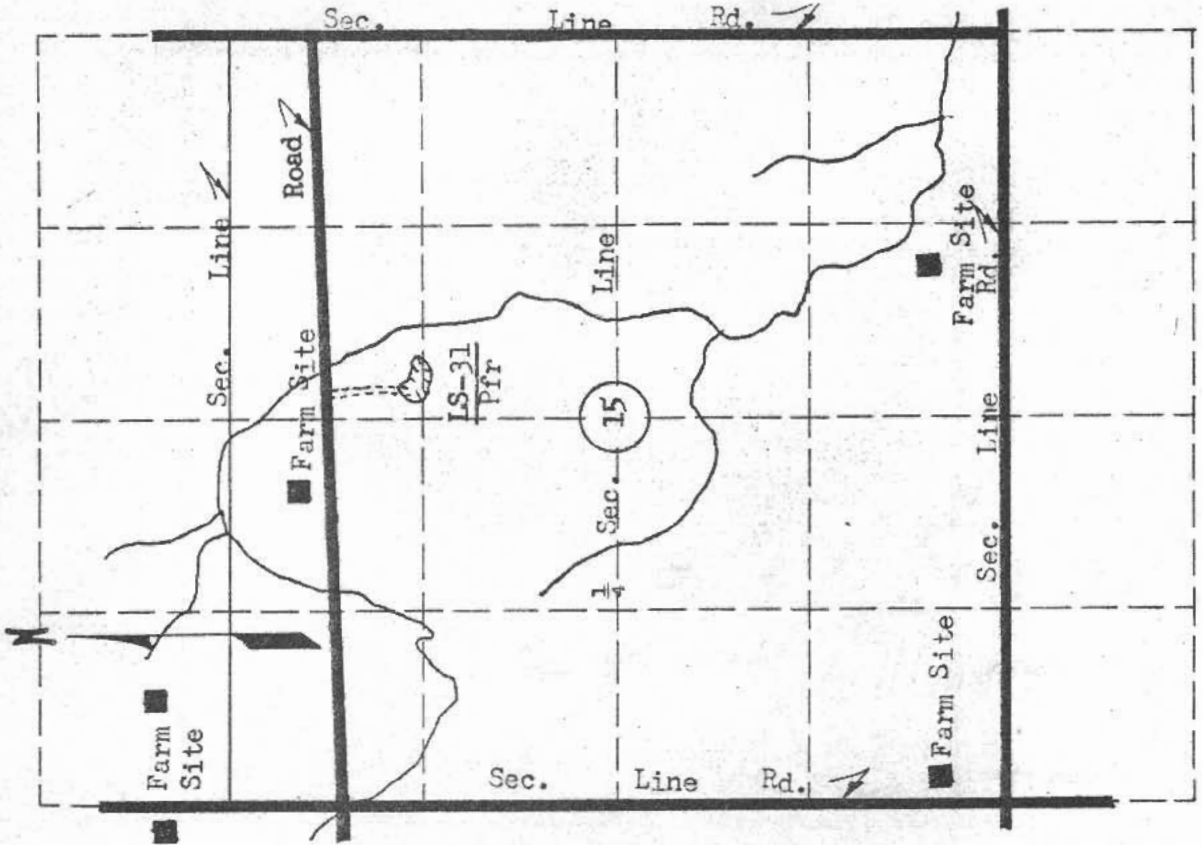
Site No. LS-31  
Pfr  
 Date June, 1965  
 Material Limestone County Marshall  
 Location NE 1/4 Sec. 15 Twp. 1S Range 7E  
 Owner I. O. Rigney 810 Caroline Marysville, Kansas  
 address  
 Nature of Deposit Dry Accessibility Good  
 Status of Site Open site; not sampled

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					100					

CORRELATION DATA

Geological Age Permian  
 Geological Source Fort Riley Limestone Member  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (dry)  
 Los Angeles Near \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Co. Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks \_\_\_\_\_



Scale: 1" = 1/4 mile







MATERIAL SURVEY REPORT

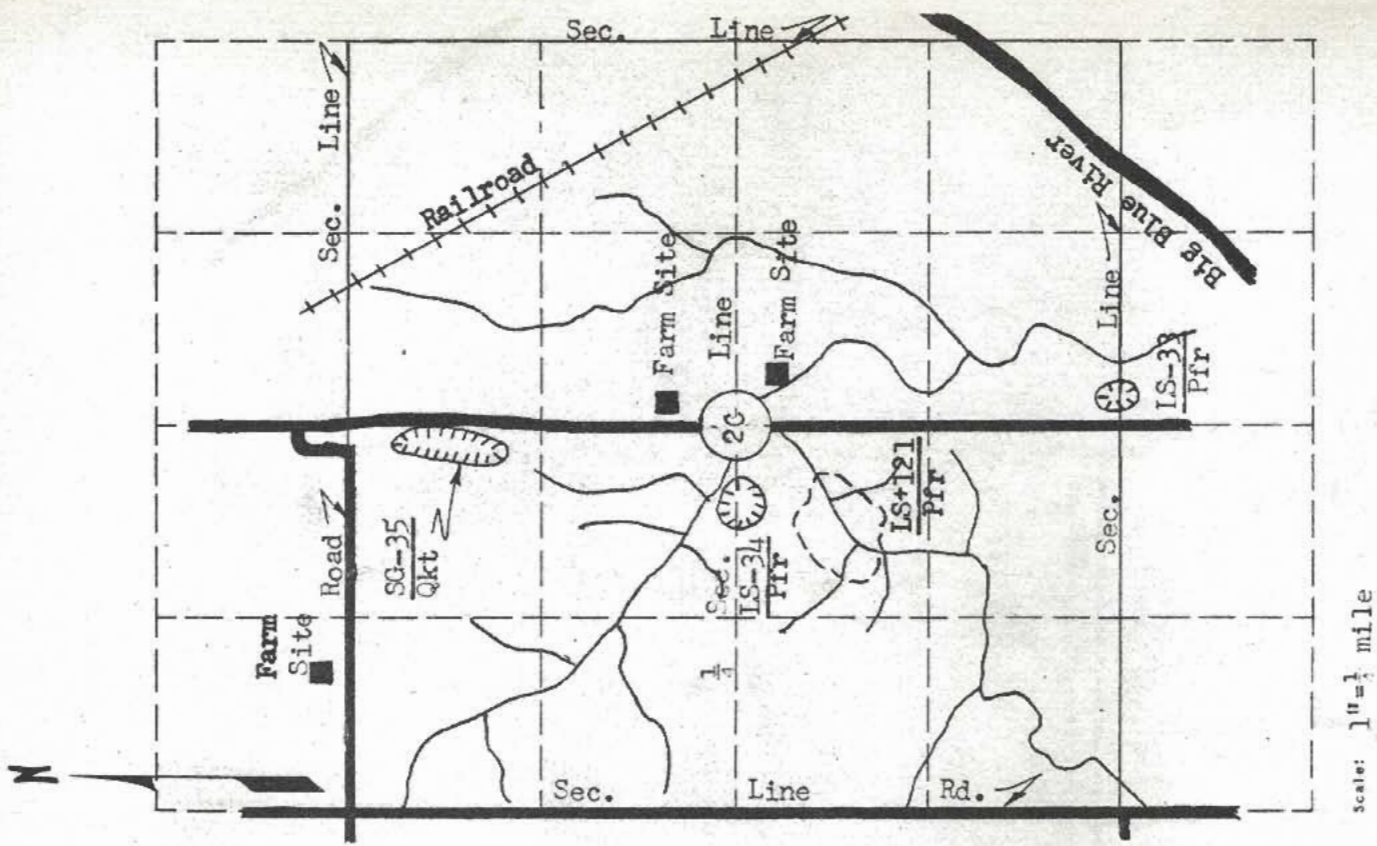
Site No. IS-34 Date June, 1965  
Pfr  
 Material Limestone County Marshall  
 Location NE 1/4 SW 1/4 Sec. 20 Twp. 2S Range 7E  
 Owner L. J. and F. J. Bernadt Marysville, Kansas  
 name address  
 Nature of Deposit Dry Accessibility Poor  
 Status of Site Open site; not sampled

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	1/8	16	30					50	100	

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. Ratio \_\_\_\_\_  
 Remarks \_\_\_\_\_



MATERIAL SURVEY REPORT

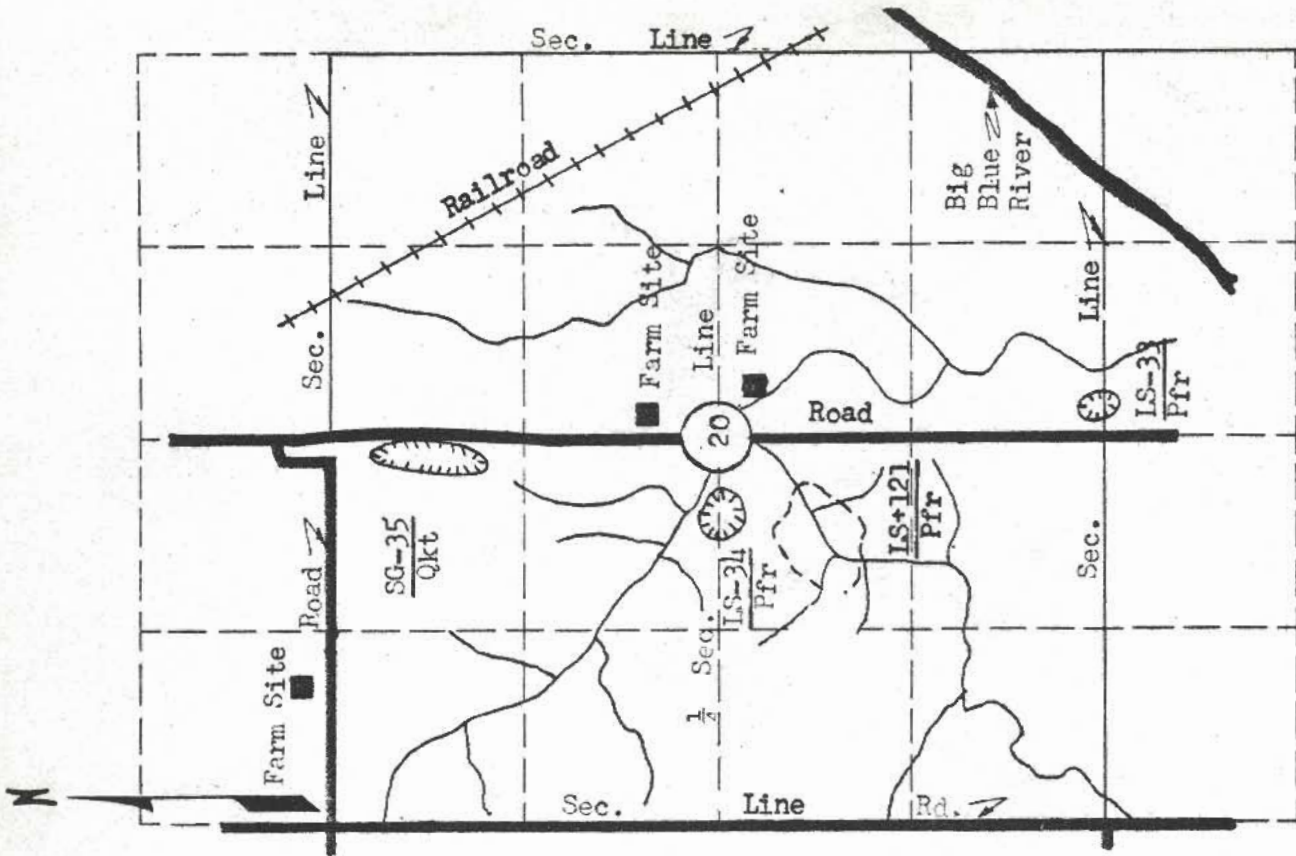
Site No. SG-35  
Qkt  
 Material Sand and Gravel  
 Location NE 1/4 NW 1/4 Sec. 20 Twp. 2S Range 7E  
 Owner Louis Spellmeier Marysville, Kansas  
 address  
 Nature of Deposit Dry Accessibility Good  
 Status of Site Open site; not sampled

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	1/8	16				

CORRELATION DATA

Geological Age Quaternary  
 Geological Source Kansas Till  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (dry)  
 Los Angeles Near \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Co.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks \_\_\_\_\_



Scale: 1" = 1/4 mile

MATERIAL SURVEY REPORT

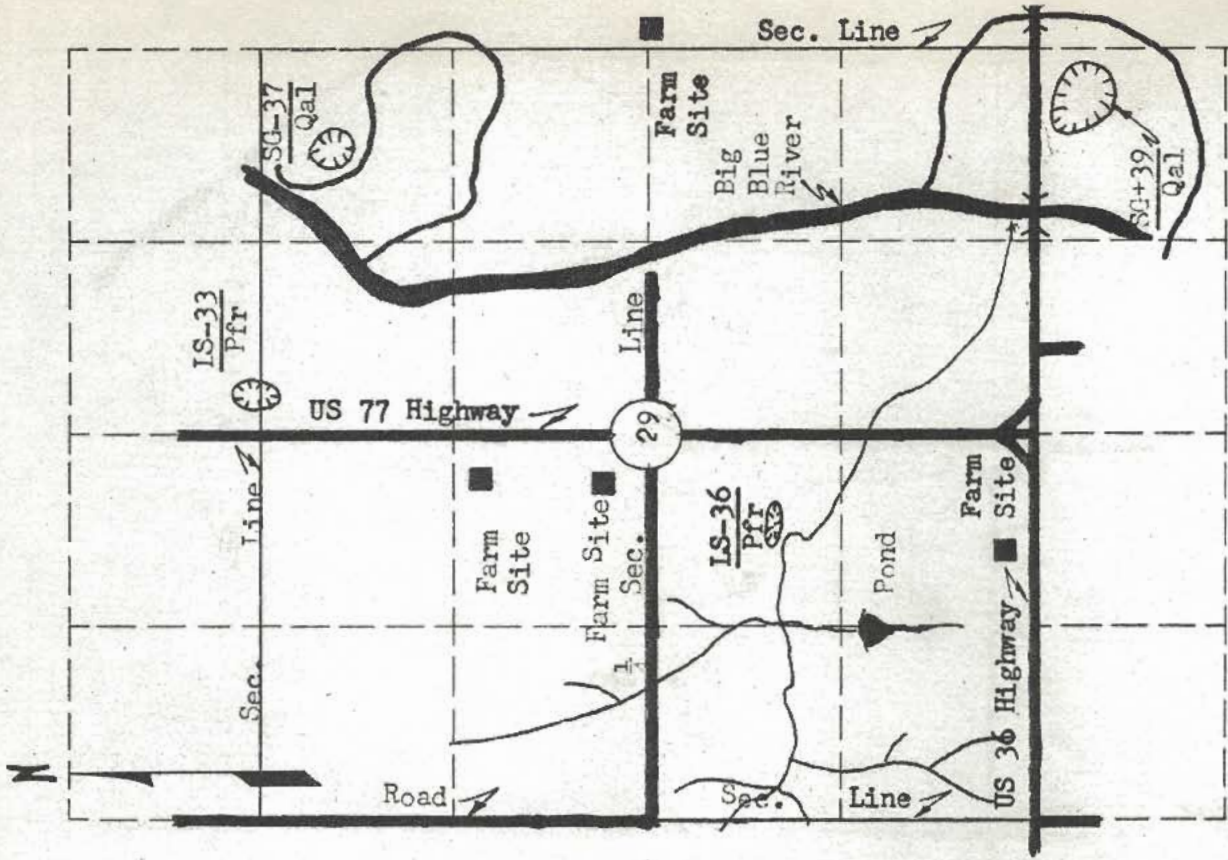
Site No. IS-36 Date June, 1965  
Pfr  
 Material Limestone County Marshall  
 Location NE 1/4 SW 1/4 Sec. 29 Twp. 2S Range 7E  
 Owner R. L. Ellenbeker Marysville, Kansas  
 name address  
 Nature of Deposit Dry Accessibility Fair  
 Status of Site Open site; not sampled

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	3/8	4	8	16	30					50	100	200		

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 \_\_\_\_\_



MATERIAL SURVEY REPORT

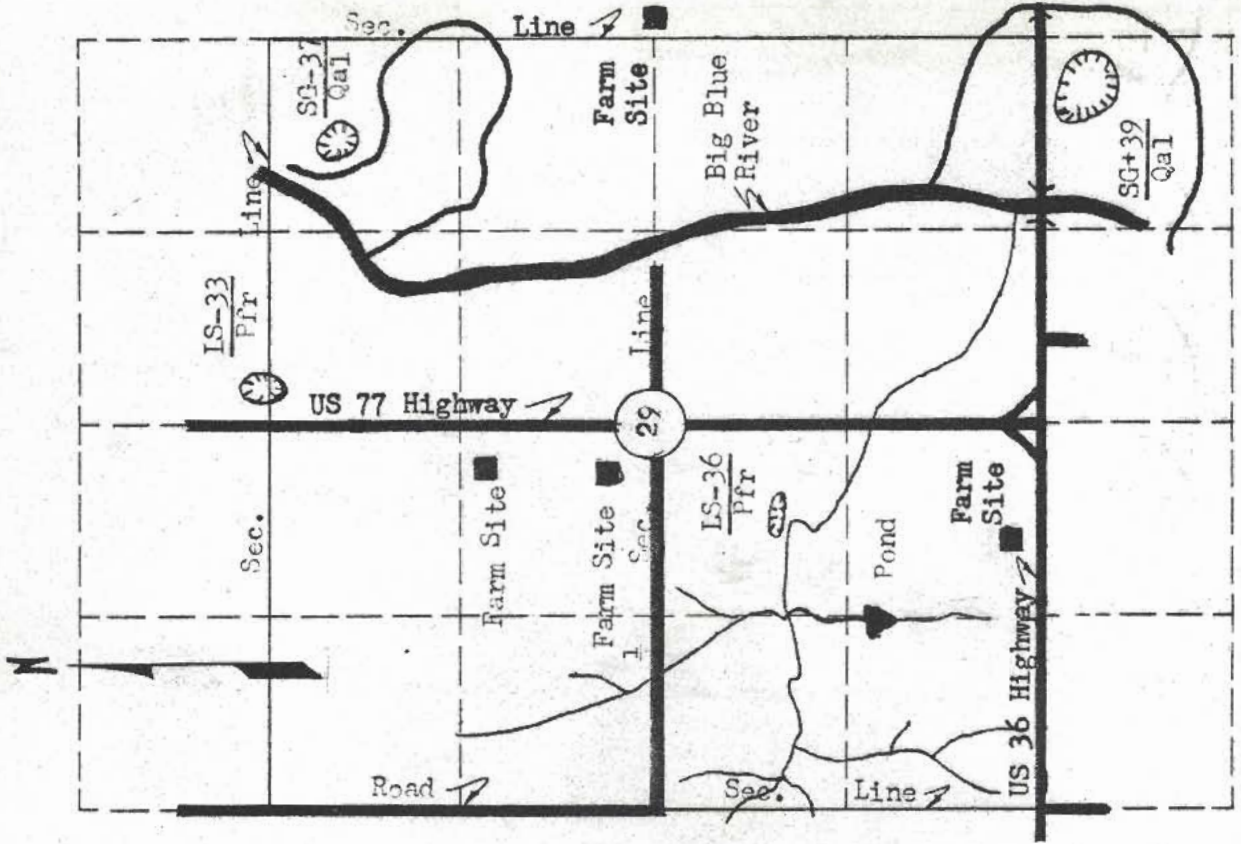
Site No. SG-37 Date June, 1965  
Qal  
 Material Sand and Gravel County Marshall  
 Location NE 1/4 NE 1/4 Sec. 29 Twp. 2S Range 7E  
 Owner Marie Schulte and E. Wassenberg Marysville, Kansas  
address  
 Nature of Deposit Dry Accessibility Fair  
 Status of Site Open site; not sampled

EXPLORATION DATA

Test hole	Material at bottom of hole	Depth of overburden	Depth of Material	Percent Retained							Wash 200	S.F.	L.L.	P.I.					
				1/2	3/4	3/8	4	8	16	30					50	100			

CORRELATION DATA

Geological Age Quaternary  
 Geological Source Alluvium  
 Material Similar to \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
 Los Angeles Near \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Mt. Co. Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks \_\_\_\_\_



Scale: 1" = 1/4 mile

MATERIAL SURVEY REPORT

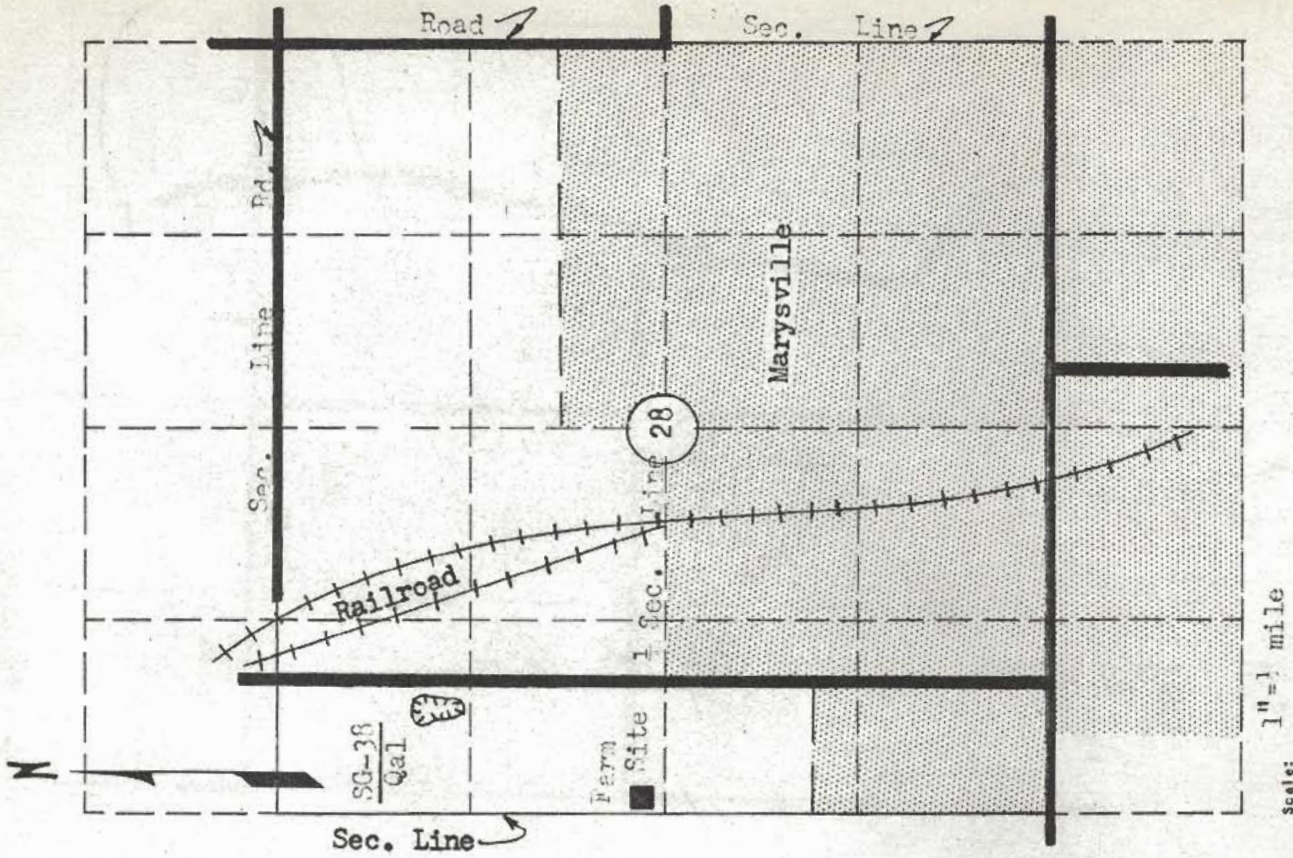
Site No. SG-38 Date June, 1965  
Qa1 County Marshall  
 Material Sand and Gravel  
 Location NW 1/4 NW 1/4 Sec. 28 Twp. 2S Range 7E  
 Owner Marie Schulte Marysville, Kansas  
 name address  
 Nature of Deposit Dry Accessibility Good  
 Status of Site Open site; not sampled

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	3/8	4	8	16	30	50					100		

CORRELATION DATA

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







MATERIAL SURVEY REPORT

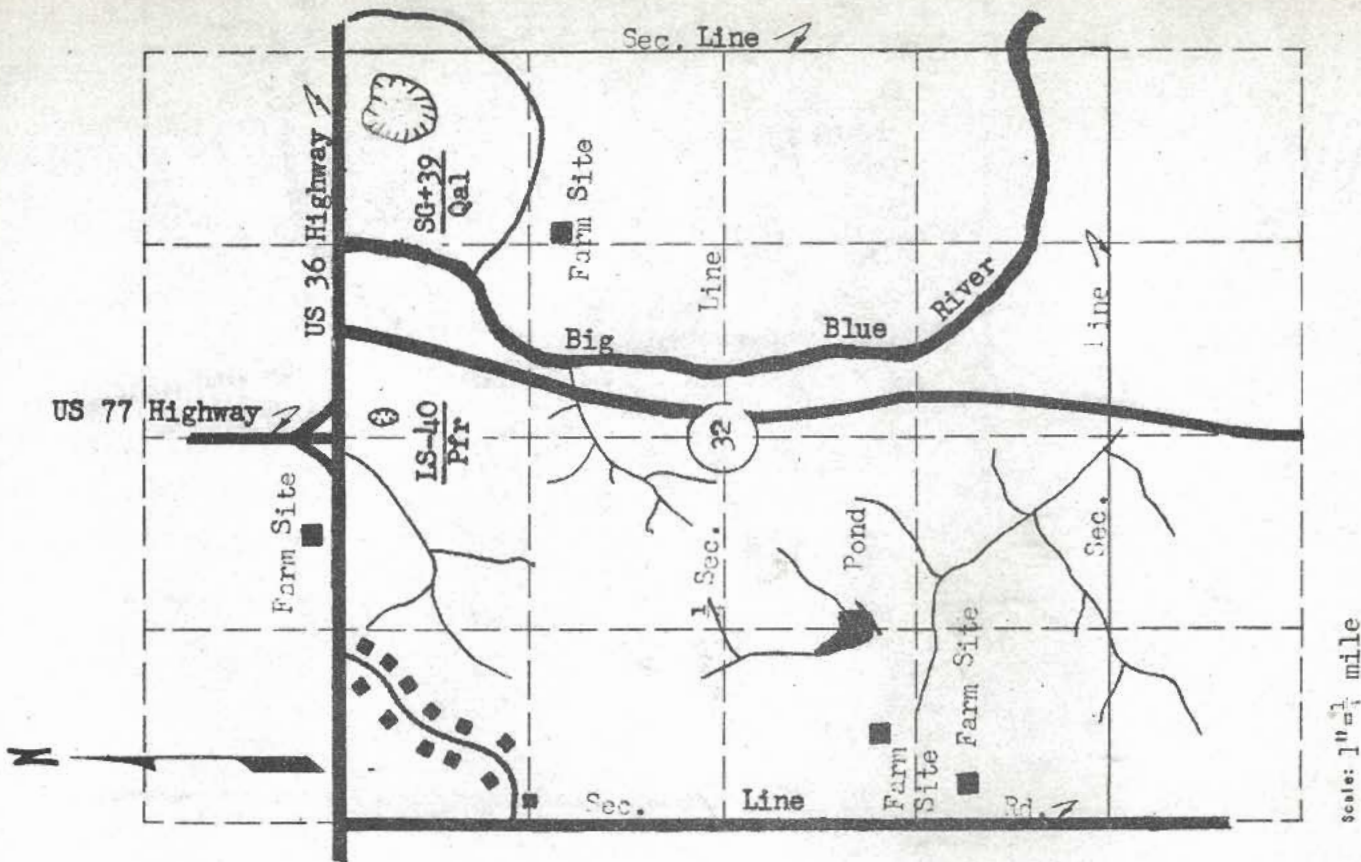
Site No. IS-40 Date June, 1965  
Pfr  
 Material Limestone County Marshall  
 Location NV $\frac{1}{2}$  NE $\frac{1}{4}$  Sec. 32 Twp. 2S Range 7E  
 Owner Arnold and Alma Nehrig Marysville, Kansas  
 address  
 Nature of Deposit Dry Accessibility Good  
 Status of Site Open site; not sampled

EXPLORATION DATA

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

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" = 1/4 mile

MATERIAL SURVEY REPORT

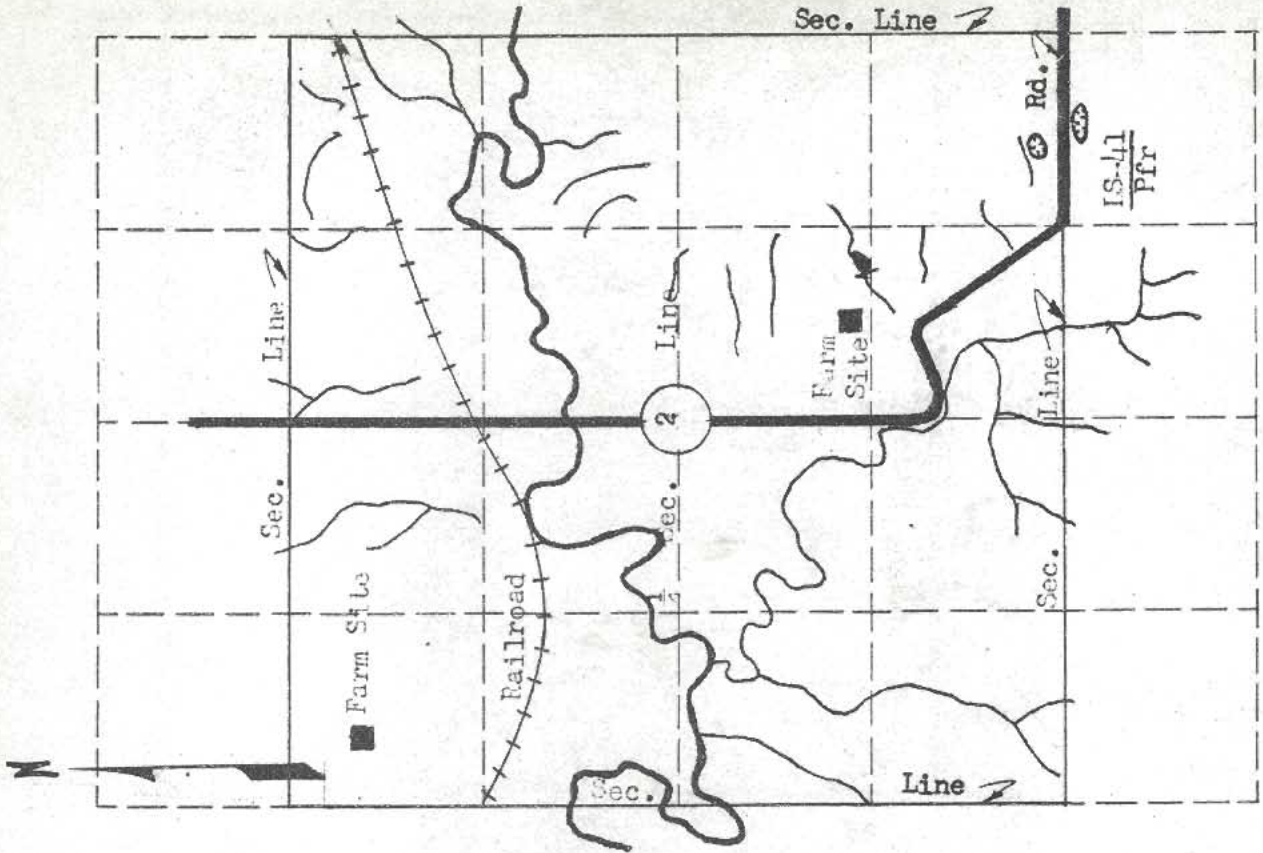
Site No. IS-41 Date June, 1965  
Pfr  
 Material Limestone County Marshall  
 Location SE 1/4 SE 1/4 Sec. 2 Twp. 3S Range 7E  
 Owner F. A. and Theresa Overkotte Marysville, Kansas  
name address  
 Nature of Deposit Dry Accessibility Good  
 Status of Site Open site; not sampled

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	3/8	1/4	8	16					30	50	100			

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" = 1/4 mile

MATERIAL SURVEY REPORT

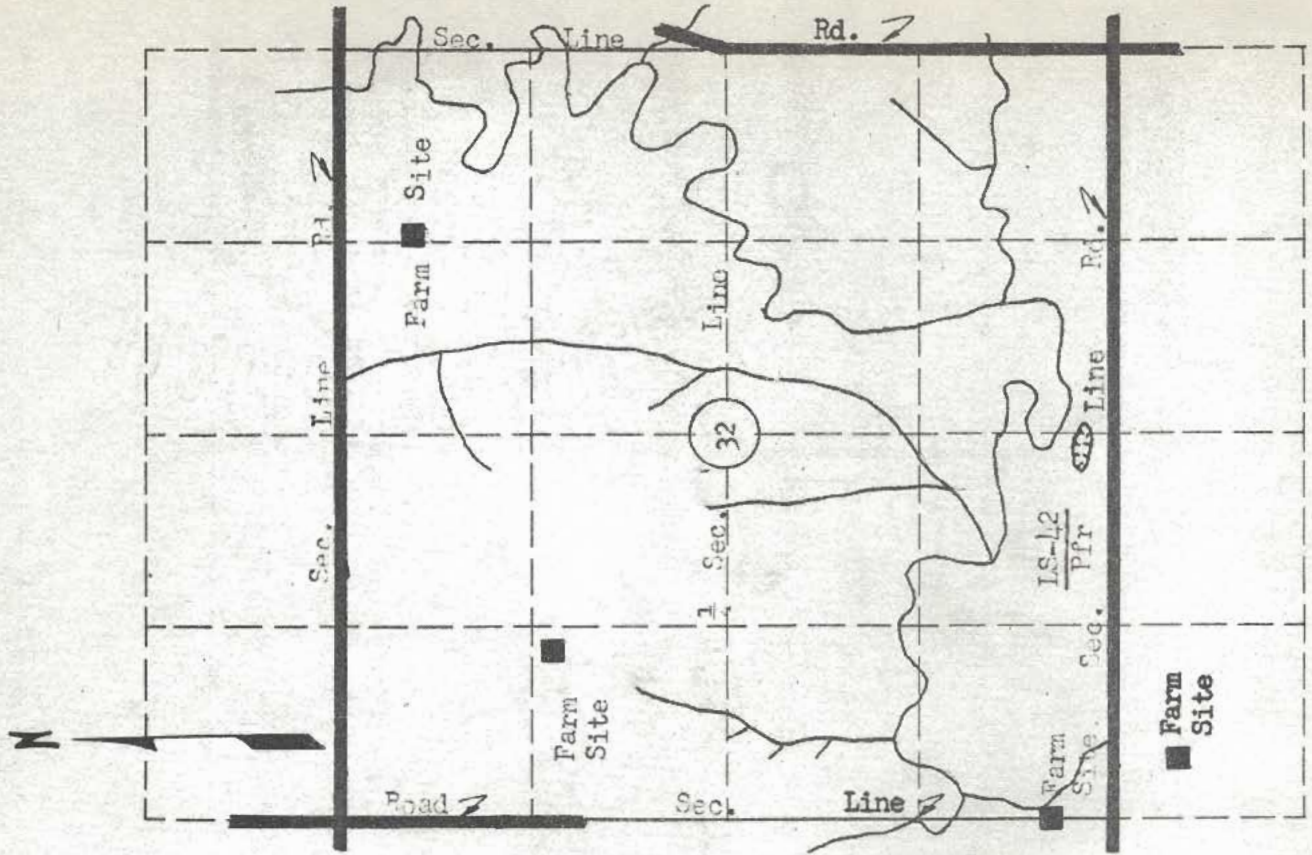
Site No. IS-42 Date June, 1965  
Pfr  
 Material Limestone County Marshall  
 Location Sec. 32 Twp. 2S Range 8E  
 Owner Hubert F. and Hedwig Kroeger Burr Oak, Kansas  
 Name address  
 Nature of Deposit Dry Accessibility Good  
 Status of Site Open site; not sampled

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Permian  
 Geological Source Fort Riley 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

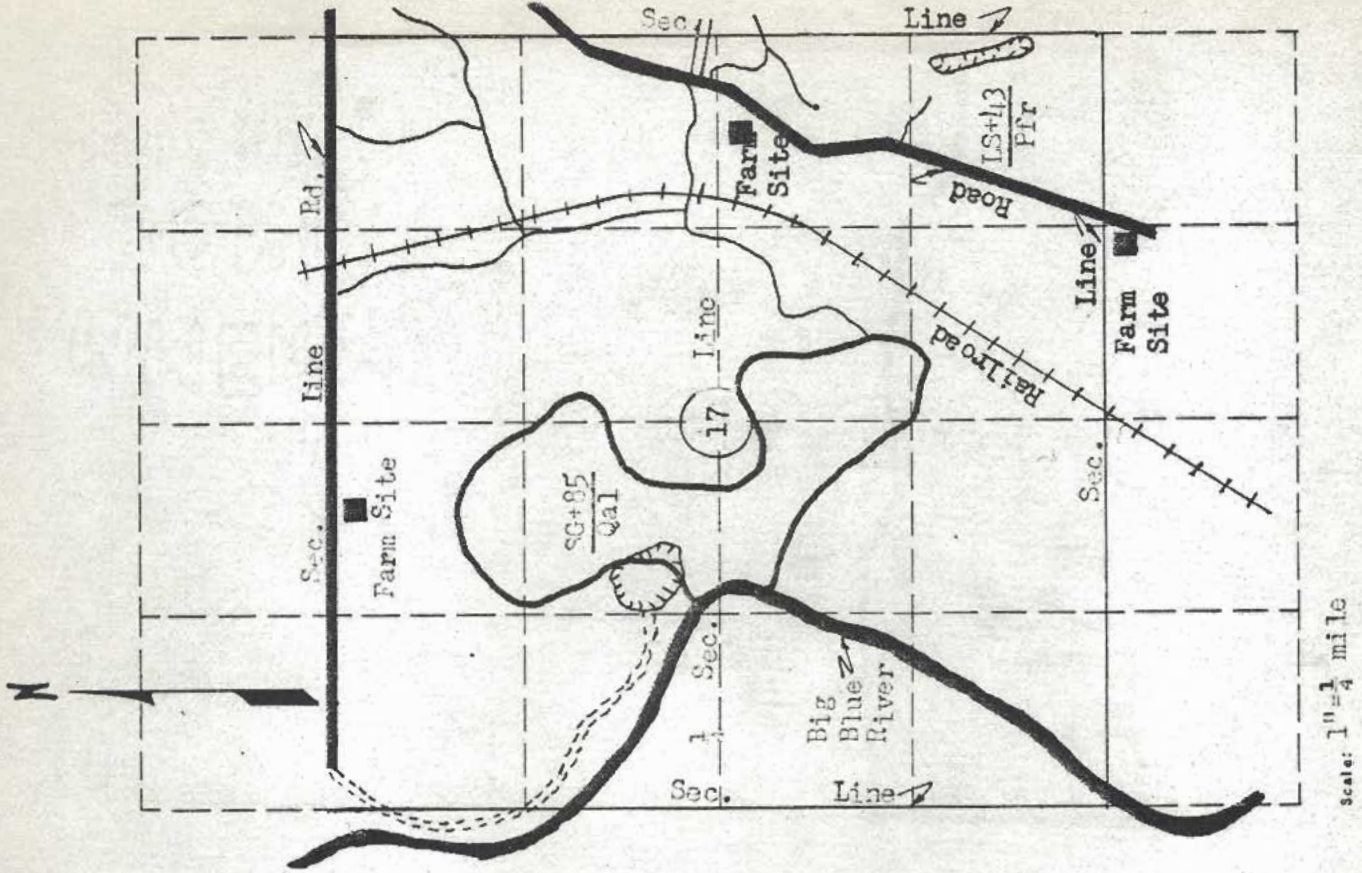
Site No. LS+43  
PfF  
 Material Limestone  
 Location SE $\frac{1}{4}$  SE $\frac{1}{4}$  Sec. 17 County Marshall  
Range 7E  
 Owner George Stichtnerath Marysville, Kansas  
address  
 Nature of Deposit Dry Accessibility Fair  
 Status of Site Open site; not sampled

EXPLORATION DATA

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

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. Ratio \_\_\_\_\_  
 Remarks \_\_\_\_\_



MATERIAL SURVEY REPORT

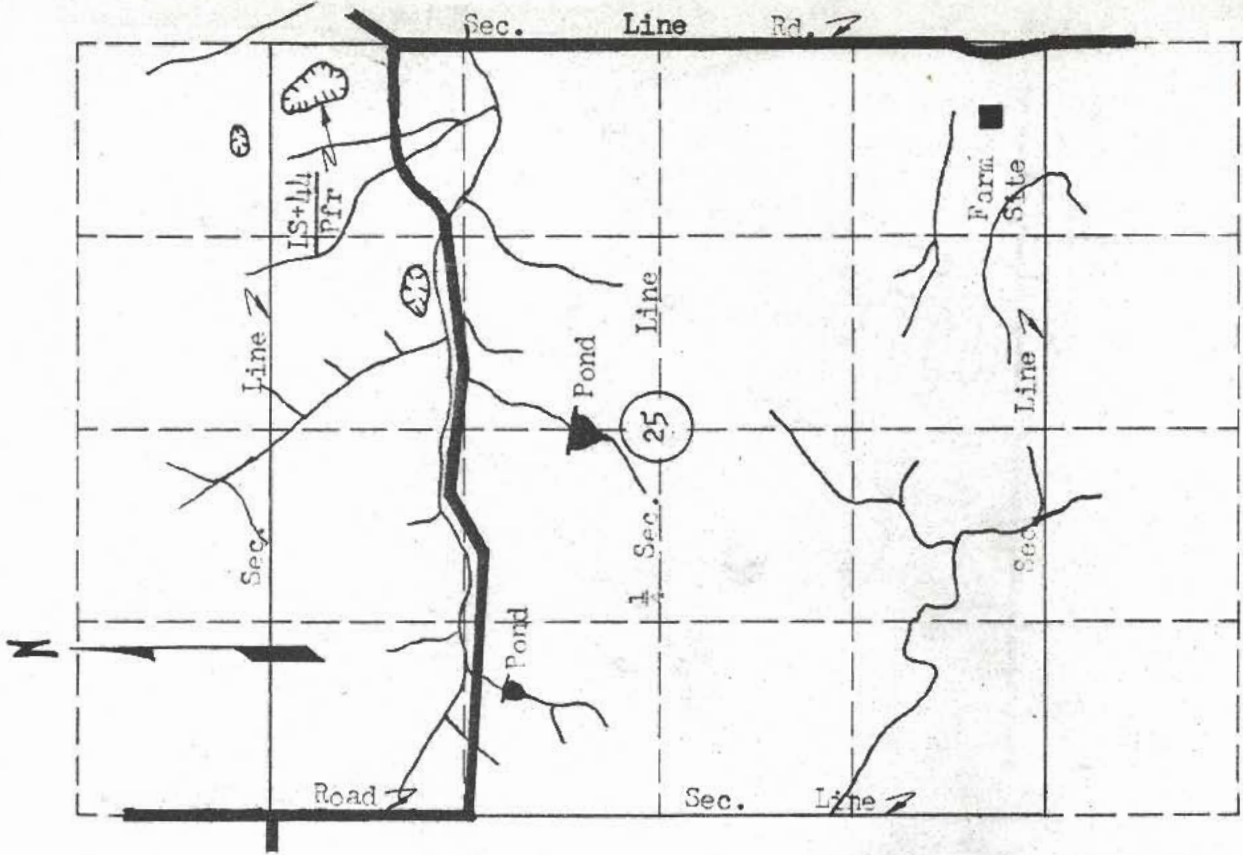
Site No. LS+444 Date June, 1965  
PPF  
 Material Limestone County Marshall  
 Location NE 1/4 NE 1/4 Sec. 25 Twp. 3S Range 6E  
 Owner Mrs. Lee B. Barney 613 Polk Topeka, Kansas  
 address  
 Nature of Deposit Dry Accessibility Good  
 Status of Site Open site; not sampled

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 Permian  
 Geological source Fort Riley Limestone Member  
 Material Similar to \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (dry)  
 Los Angeles Near \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Co. Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks \_\_\_\_\_



MATERIAL SURVEY REPORT

Site No. LS-45  
Pfr Date June, 1965

Material Limestone County Marshall

Location NE 1/4 NW 1/4 Sec. 29 Twp. 3S Range 7E

Owner Delva Bray name address Blue Rapids, Kansas

Nature of Deposit Dry Accessibility Poor

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 1/2	3/4	3/8	4	8				

CORRELATION DATA

Geological Age Permian

Geological Source Fort Riley Limestone Member

Material Similar To \_\_\_\_\_

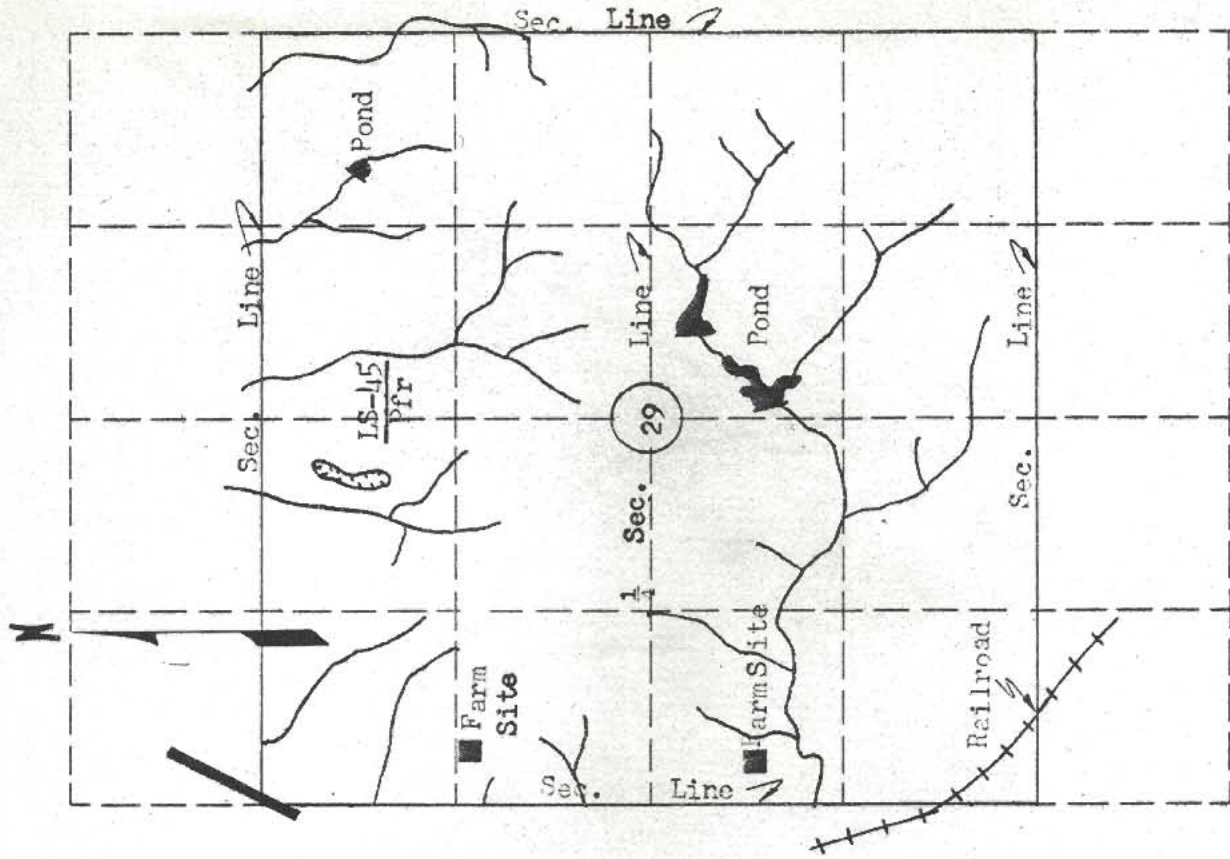
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Wear \_\_\_\_\_

Absorption \_\_\_\_\_ Soundness \_\_\_\_\_

Wt. Cu.ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks \_\_\_\_\_



Scale: 1" = 1 mile

MATERIAL SURVEY REPORT

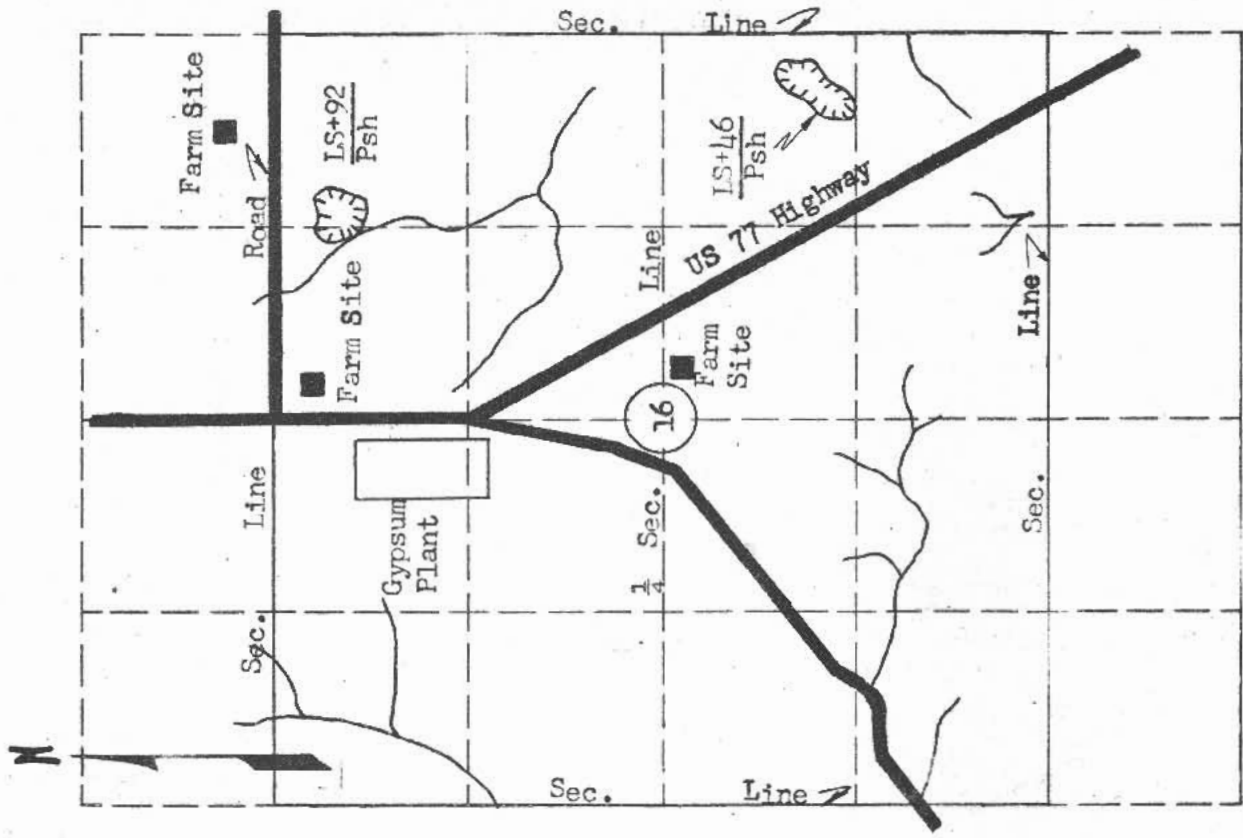
Site No. LS+46 Date June, 1965  
Psh  
 Material Limestone County Marshall  
 Location NE 1/4 SE 1/4 Sec. 16 Twp. 4S Range 7E  
Edwin C. Holly Blue Rapids, Kansas  
 Owner name address  
 Nature of Deposit Dry Accessibility Good  
 Status of Site Open site; not sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of overburden	Depth of Material	Percent Retained						Mesh 200	G.F.	L.L.	P.I.				
				1/2	3/4	3/8	5/16	3/16	1/8								

CORRELATION DATA

Geological Age Permian  
 Geological Source "Havensville Reef" and Schroyer Limestone Member  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
 Los Angeles Moar \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks \_\_\_\_\_



Scale: 1" = 1/4 mile

MATERIAL SURVEY REPORT

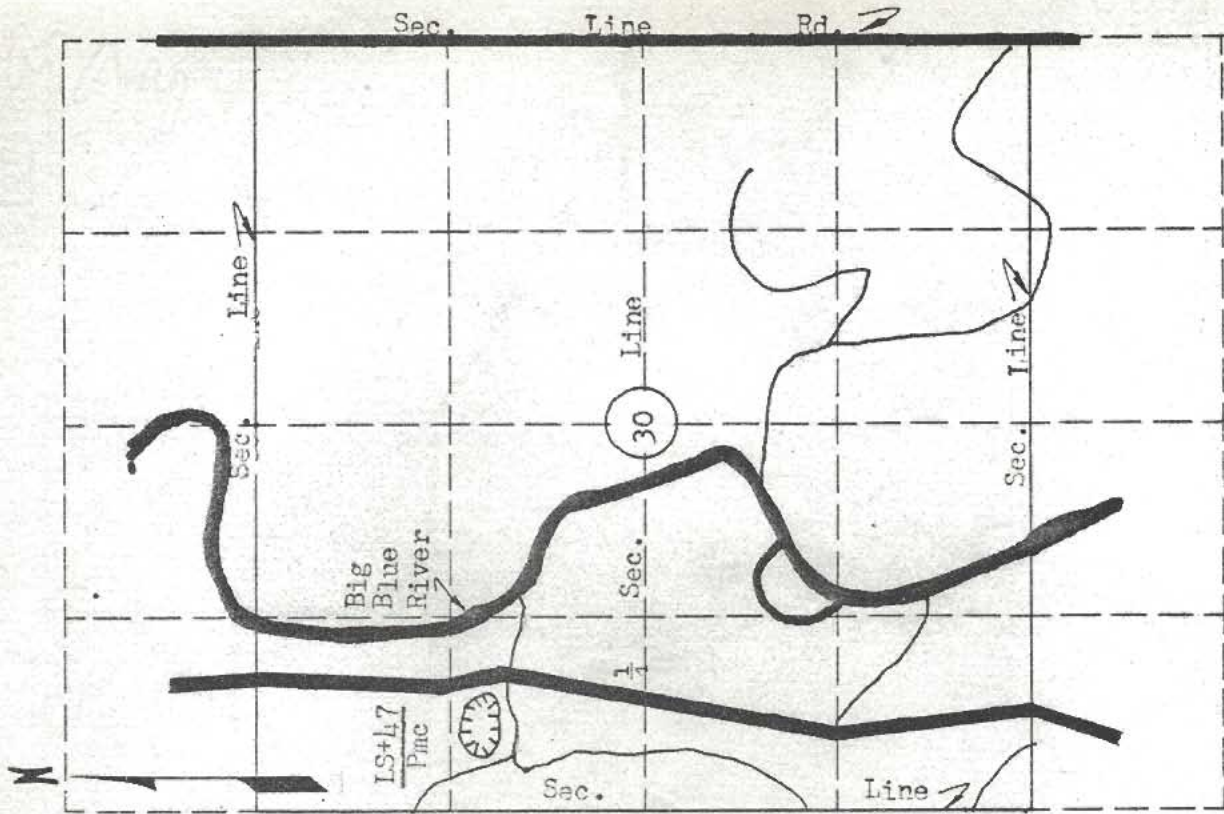
Site No. LS+47  
Pinc  
 Material Limestone  
 Location NW 1/4 Sec. 30 Twp. 5S Range 8E  
 Owner Federal Government address \_\_\_\_\_  
 Nature of Deposit Dry Accessibility Good  
 Status of Site Open site; not sampled

EXPLORATION DATA

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

CORRELATION DATA

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





MATERIAL SURVEY REPORT

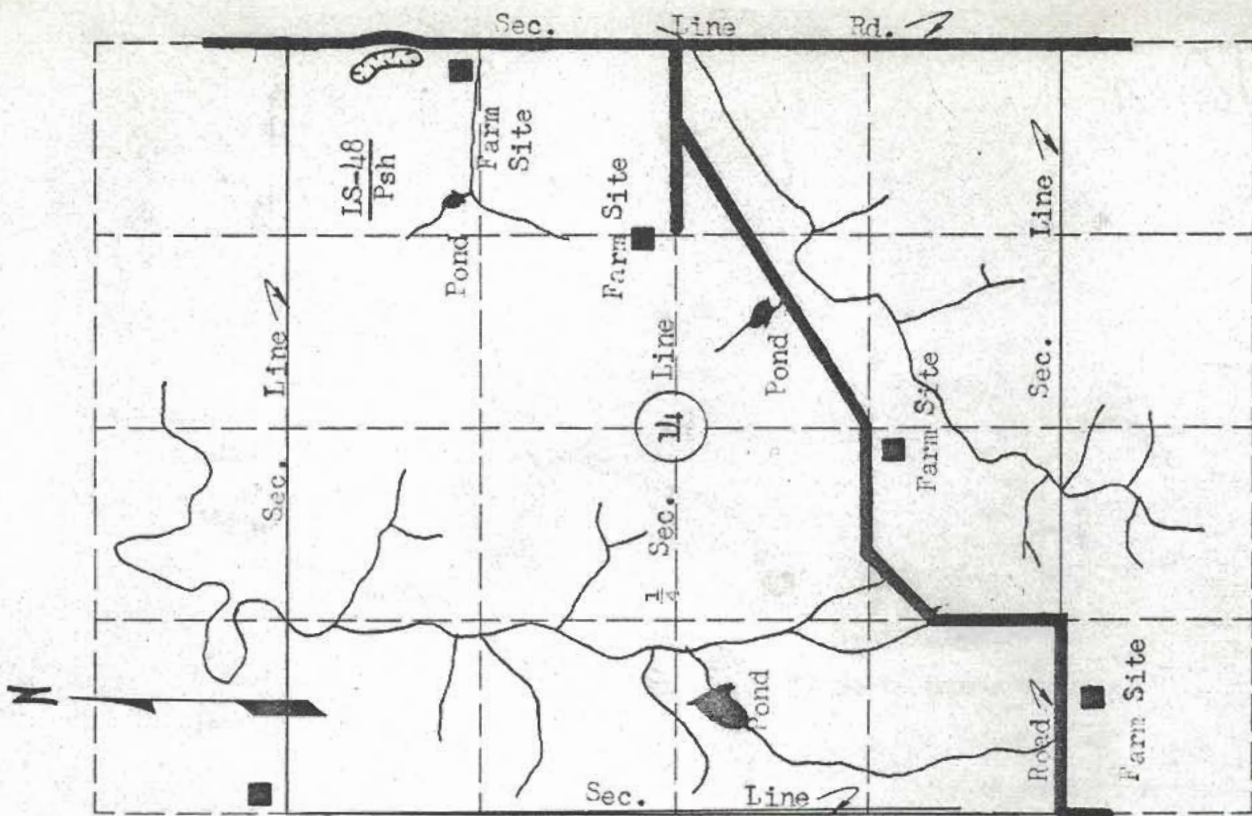
Site No. LS-48 Date June, 1965  
Psh  
 Material Limestone County Marshall  
 Location NE 1/4 Sec. 14 Twp. 5S Range 7E  
 Owner Frank and Josephine Wacek Blue Rapids, Kansas  
 name address  
 Nature of Deposit Dry Accessibility Good  
 Status of Site Open site; not sampled

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Permian  
 Geological Source Schroyer Limestone Member  
 Material Similar to \_\_\_\_\_  
 Specific Gravity (sat.) \_\_\_\_\_ (dry) \_\_\_\_\_  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Mt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks \_\_\_\_\_





MATERIAL SURVEY REPORT

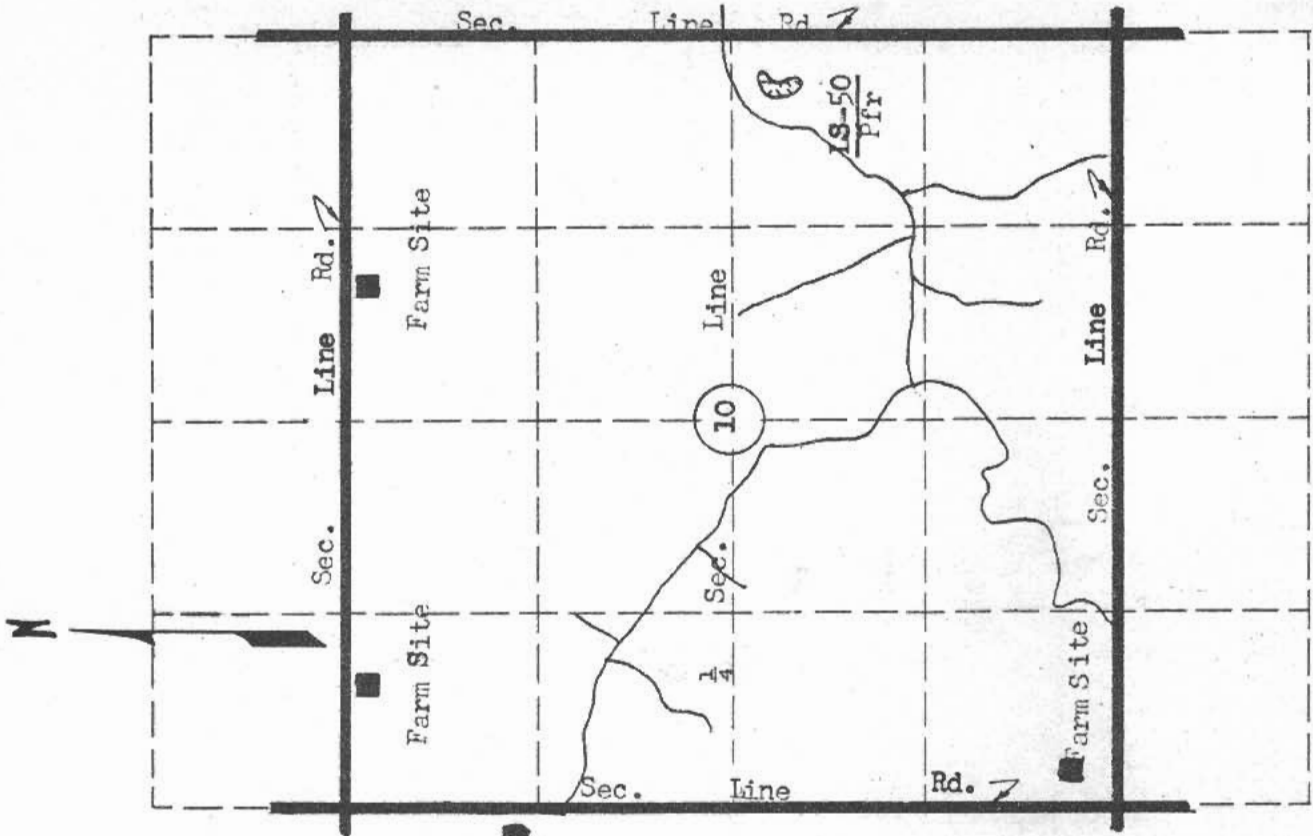
Site No. LS-50 Date June, 1965  
Pfr  
 Material Limestone County Marshall  
 Location NE 1/4 Sec. 10 Twp. 5S Range 6E  
 Owner George H. and Ester G. Pishny Waterville, Kansas  
 name address  
 Nature of Deposit Dry Accessibility Good  
 Status of Site Open site; not sampled

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

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. Ratio \_\_\_\_\_  
 Remarks \_\_\_\_\_



Scale: 1" = 1/4 mile

MATERIAL SURVEY REPORT

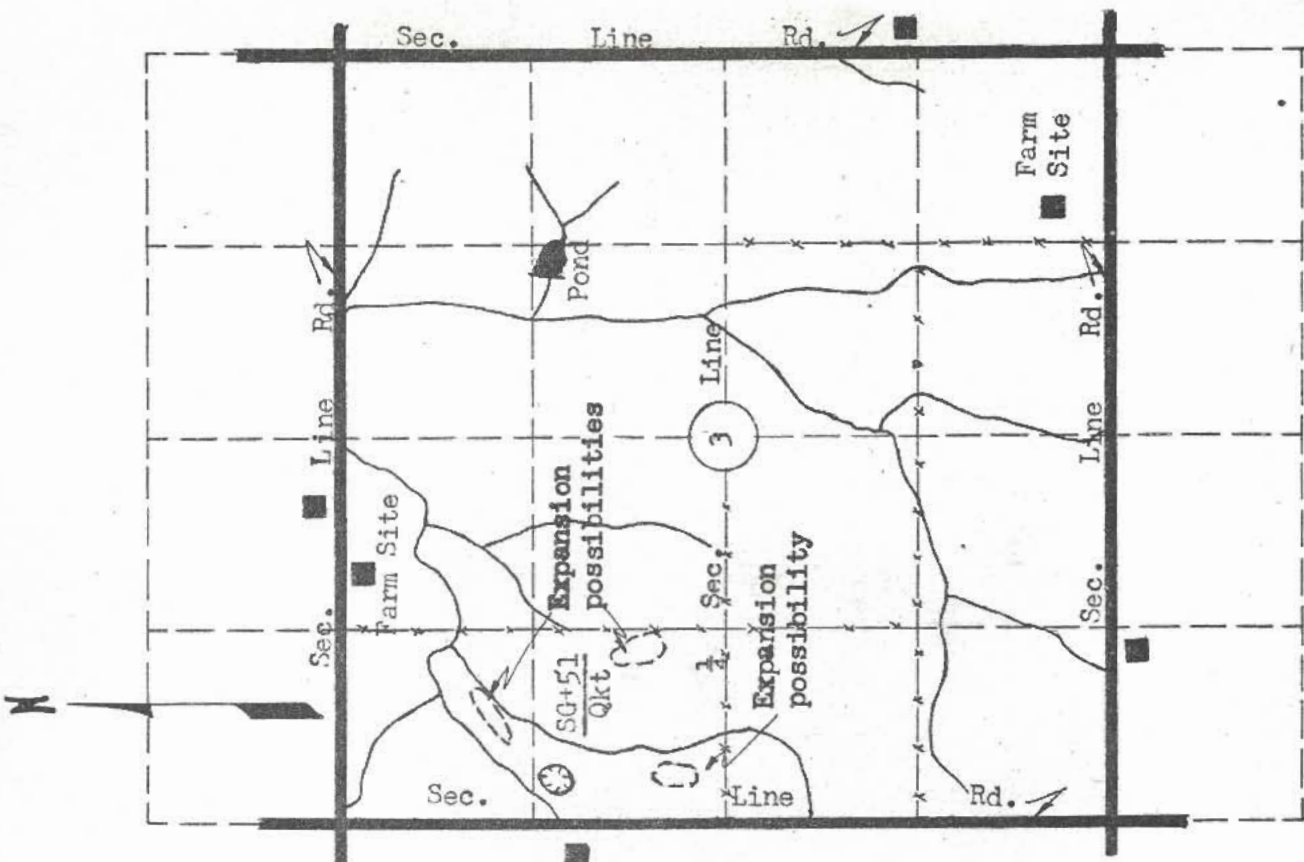
Site No. SG+51 Date June, 1965  
Qkt  
 Material Sand and Gravel County Marshall  
 Location SW<sup>2</sup> NW<sup>2</sup> Sec. 3 Twp. 5S Range 6E  
 Owner Cecil L. Harding name Cleburne, Kansas address  
 Nature of Deposit Dry Accessibility Good  
 Status of Site Open site; not sampled

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

CORRELATION DATA

Geological Age Quaternary  
 Geological Source Kansas Till  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
 Los Angeles Near \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.-ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks This site may be expanded to adjacent areas.



Scale: 1" = 1/4 mile

MATERIAL SURVEY REPORT

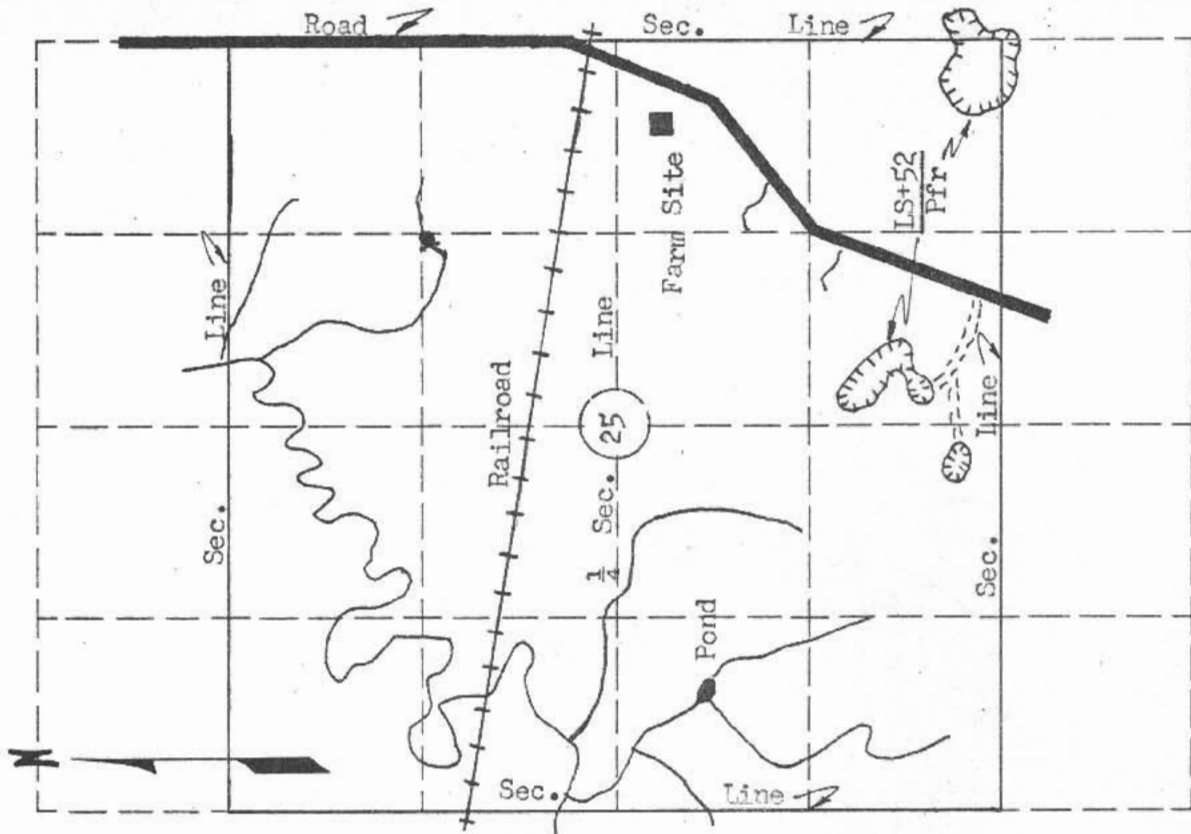
Site No. LS+52 Date June, 1965  
Pfr  
 Material Limestone County Marshall  
 Location SE 1/4 Sec. 25 Twp. 14S Range 6E  
 Owner Fred L. Stocks Blue Rapids, Kansas  
 name address  
 Nature of Deposit Dry Accessibility Fair  
 Status of Site Open site; not sampled

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	1/8	16	30					50	100		

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" = 1/4 mile

MATERIAL SURVEY REPORT

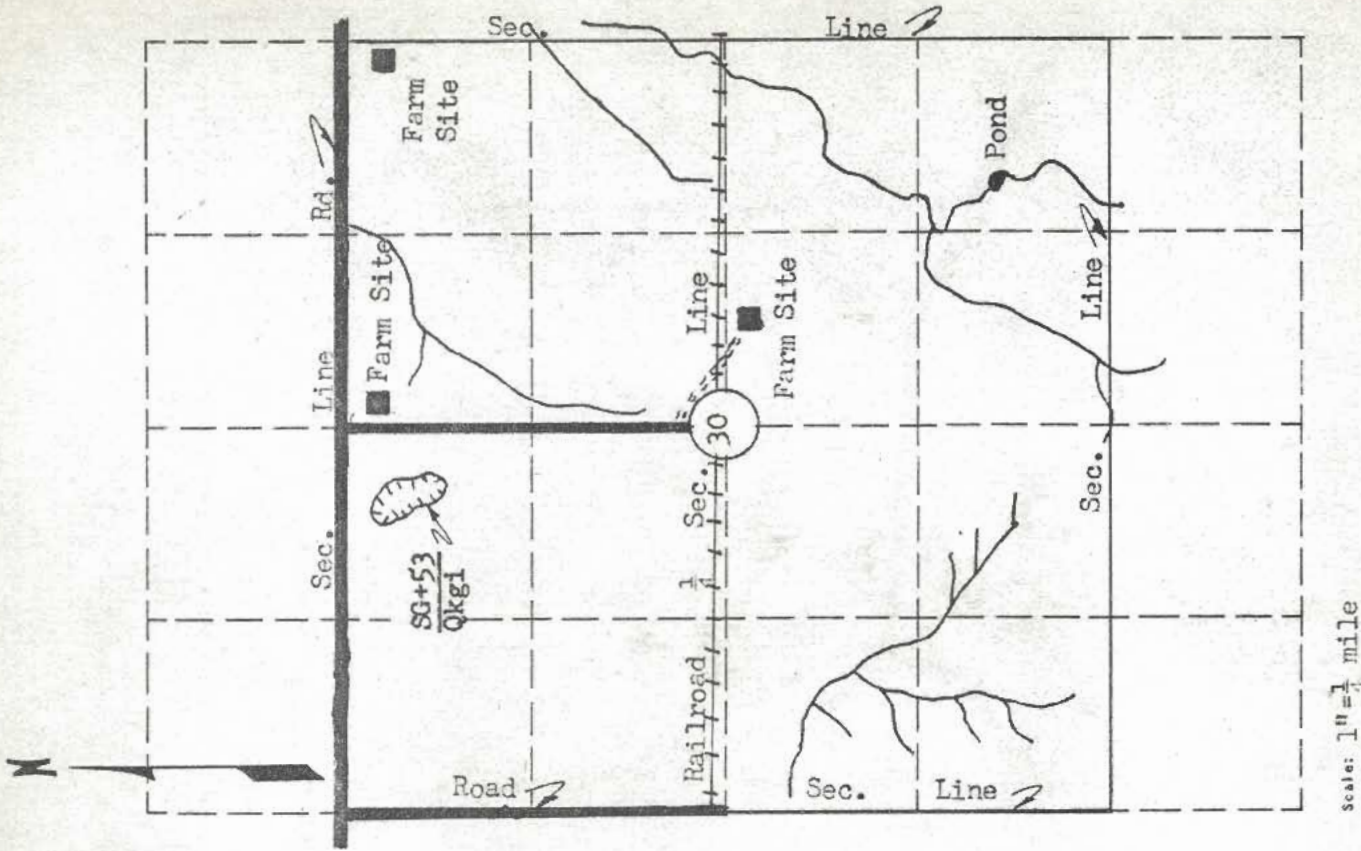
Site No. SO+53  
Qkgl  
 Material Sand and Gravel  
 Location NE 1/4 NW 1/4 Sec. 30 Twp. 15S Range 7E  
 Owner Theo. F. Musil Blue Rapids, Kansas  
 name address  
 Nature of deposit Dry Accessibility Good  
 Status of site Open site; not sampled

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	3/16	3/32				

CORRELATION DATA

Geological Age Quaternary  
 Geological Source Grand Island Formation  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (sat.) \_\_\_\_\_ (Dry)  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks \_\_\_\_\_



MATERIAL SURVEY REPORT

Site No. SG+54  
Qkgl  
 Material Sand and Gravel  
 Location SE 1/4 Sec. 19 Twp. L15 Range 7E  
 Owner Fred S. and Viola Stryker Blue Rapids, Kansas  
 name address  
 Nature of Deposit Dry Accessibility Good  
 Status of Site Open site; not sampled

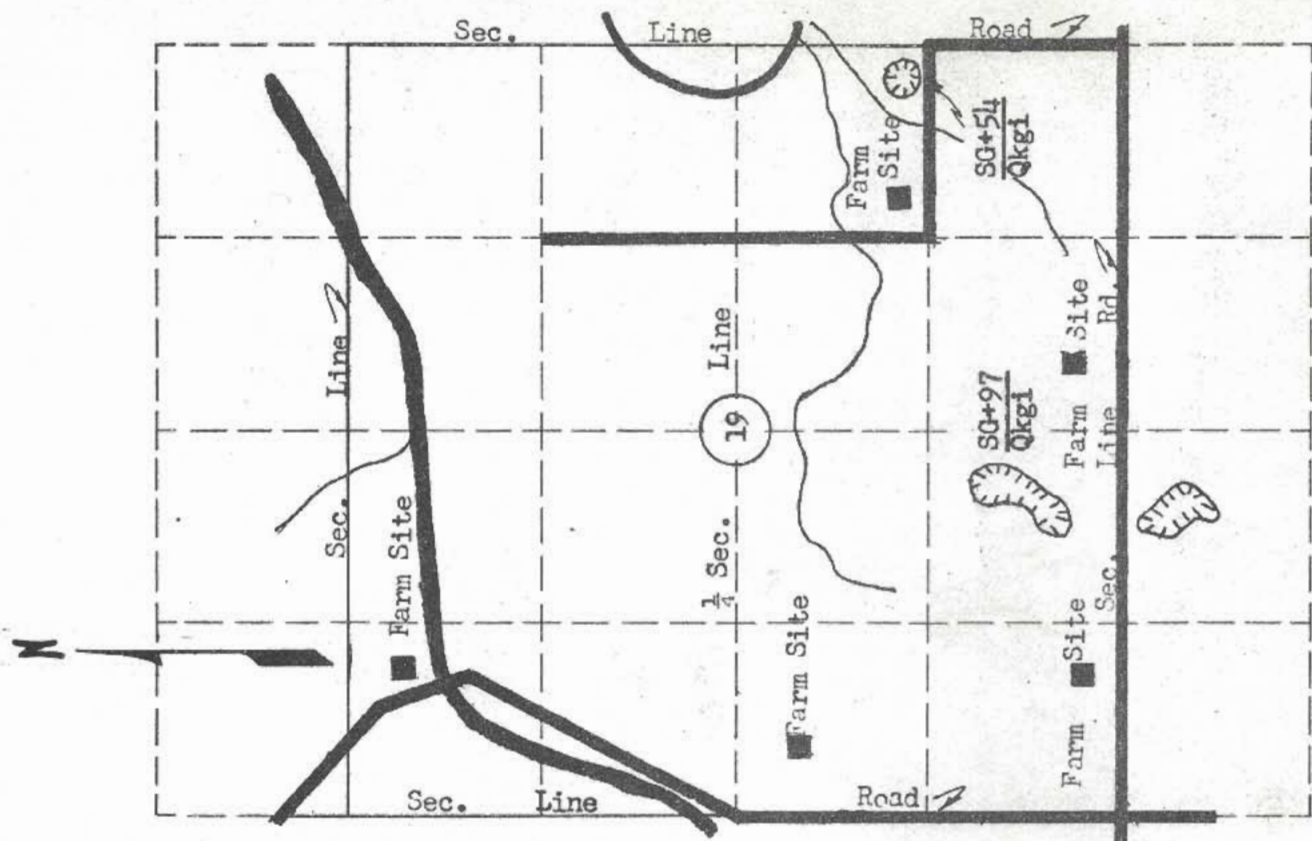
EXPLORATION DATA

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	3/8	1/2	3/4	1	3/8						

CORRELATION DATA

Geological Age Quaternary  
 Geological Source Grand Island 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

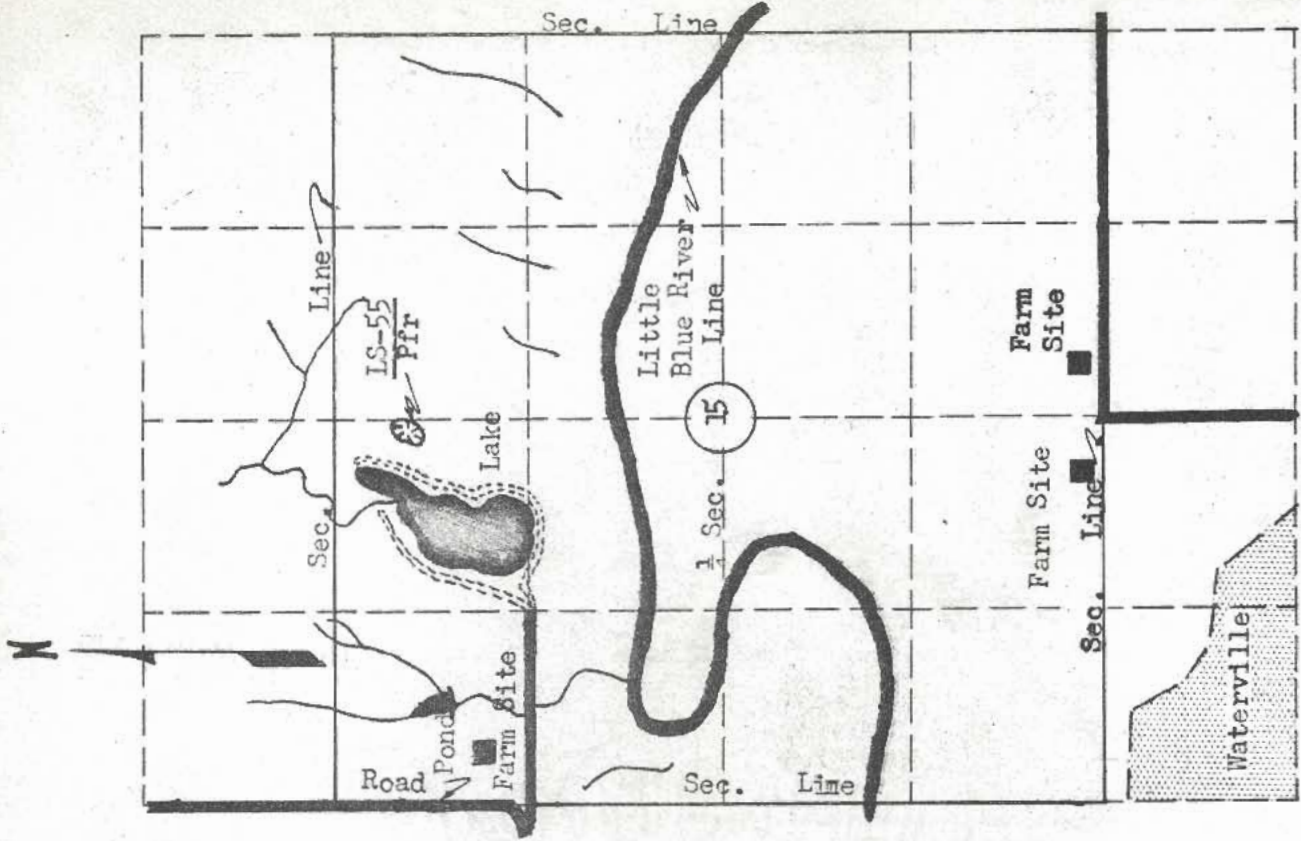
Site No. LS-55  
Pfr  
 Date June, 1965  
 Material Limestone  
 County Marshall  
 Location NE 1/4 NW 1/4 sec. 15 14S Range 6E  
 City of Waterville Kansas  
 Owner City of Waterville  
 Nature of Deposit Dry Accessibility Poor  
 Status of Site Open site; not sampled

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

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 \_\_\_\_\_





MATERIAL SURVEY REPORT

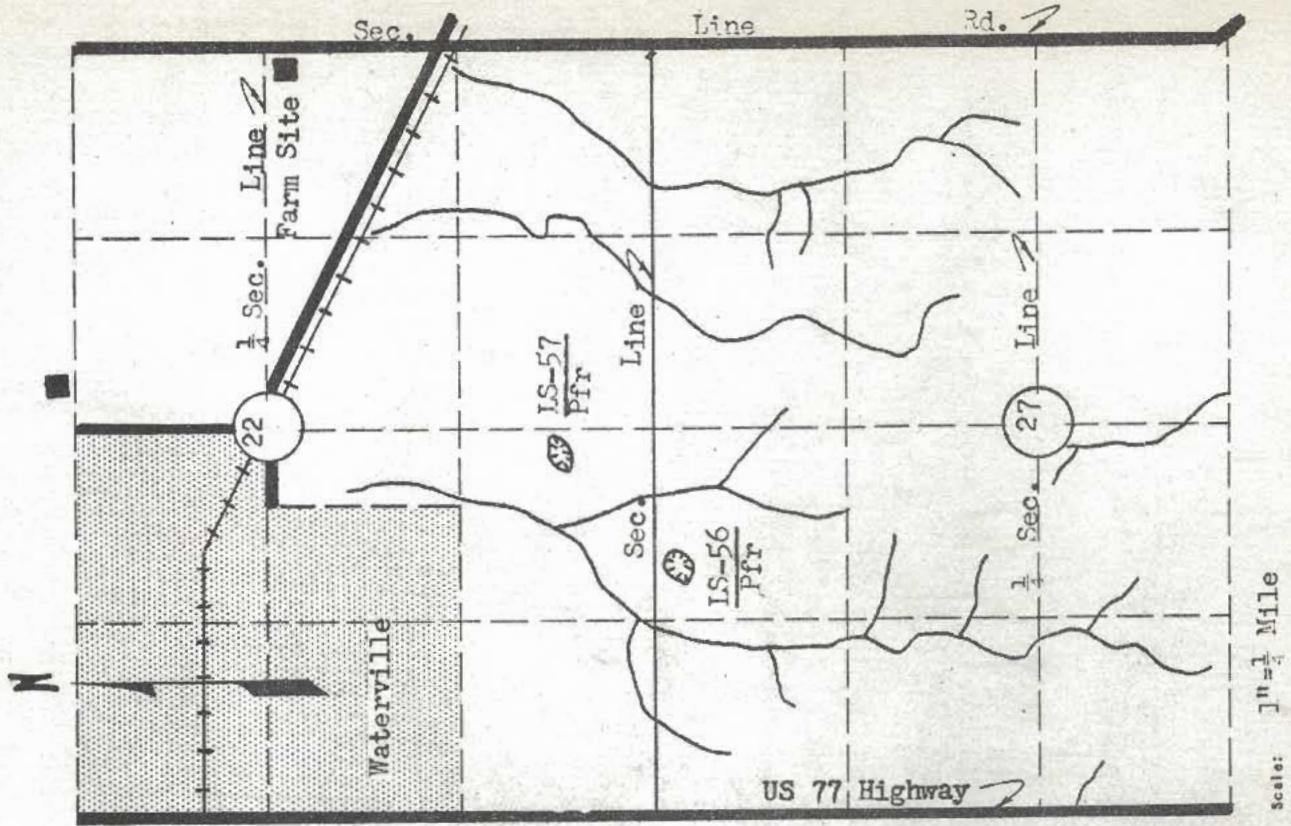
Site No. LS-56 Date June, 1965  
Pfr  
 Material Limestone County Marshall  
 Location NE 1/4 NW 1/4 Sec. 27 Twp. 4S Range 6E  
 Owner Leonard Travelute Et. Al. Waterville, Kansas  
 address  
 Nature of Deposit Dry Accessibility Poor  
 Status of Site Open site; not sampled

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 1/2	3/4	3/8	5/8	16	30	50					100	

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 \_\_\_\_\_



MATERIAL SURVEY REPORT

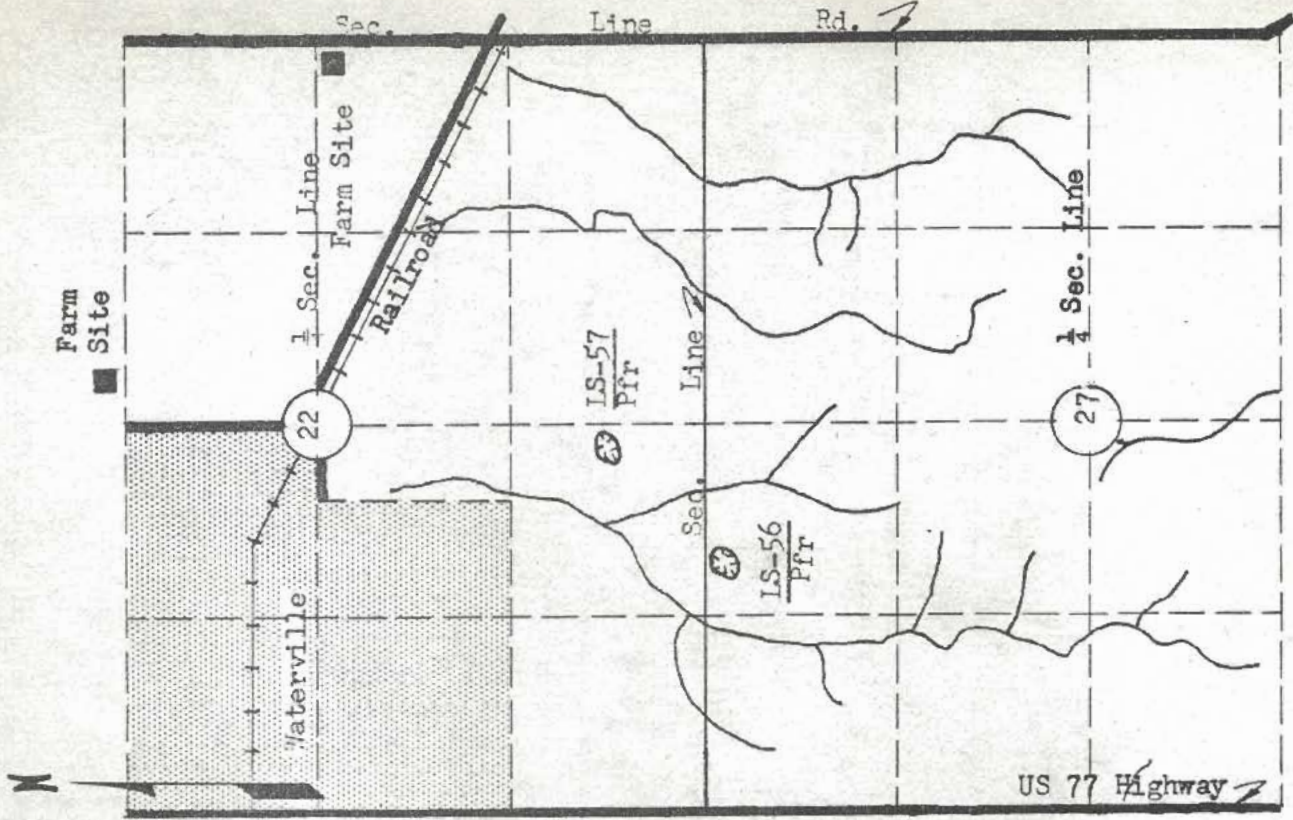
Site No. LS-57  
Pfr  
 Material Limestone  
 Location SE<sup>1</sup> SW<sup>1</sup> Sec. 22 Twp. LS Range 6E County Marshall  
 Owner Leonard Travelute Et. Al. Waterville, Kansas  
 Nature of Deposit Dry Accessibility Poor  
 Status of Site Open site; not sampled

EXPLORATION DATA

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

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. Ratio \_\_\_\_\_  
 Remarks \_\_\_\_\_



MATERIAL SURVEY REPORT

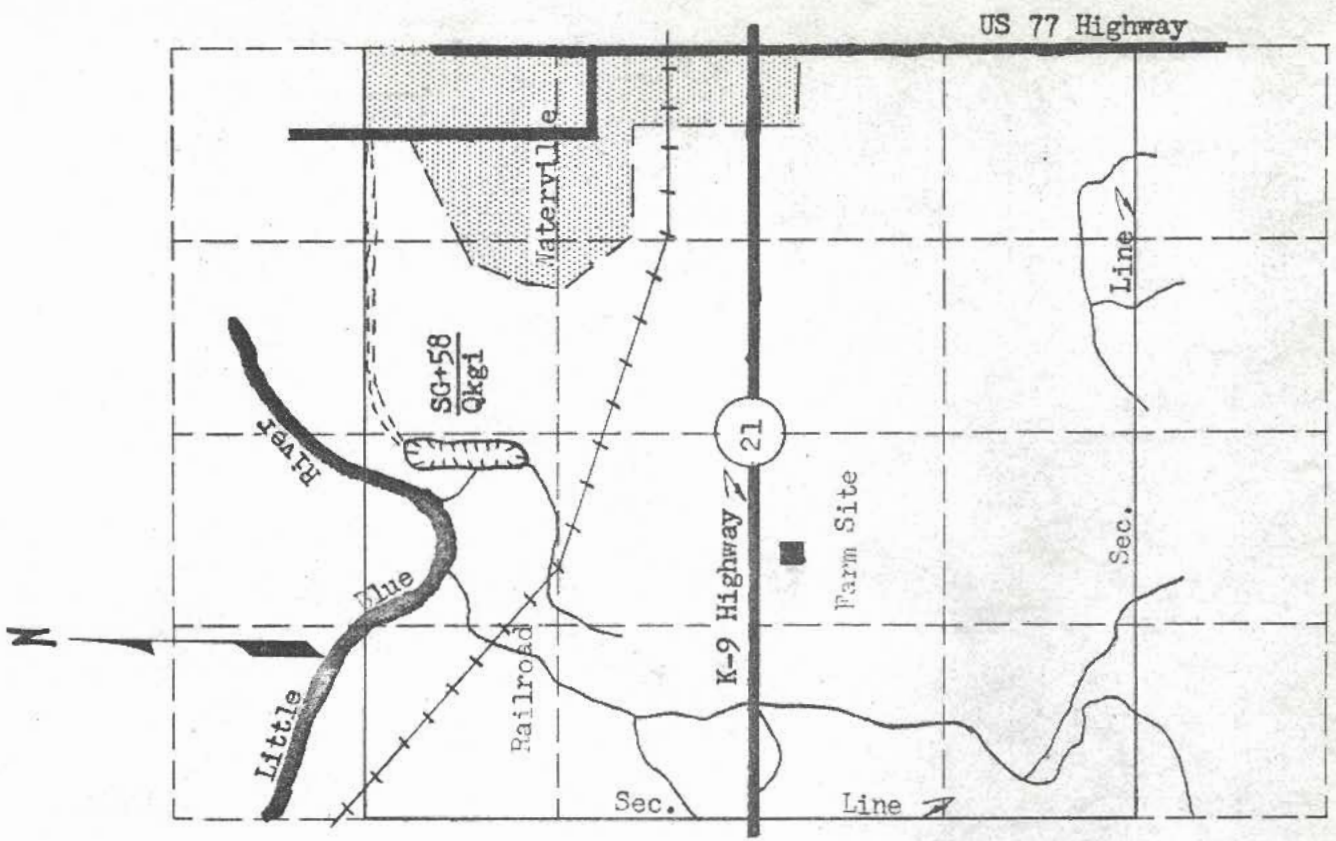
Site No. SG+58  
Qkg1  
 Date June, 1965  
 Material Sand and Gravel  
 County Marshall  
 Location NE $\frac{1}{4}$  NW $\frac{1}{4}$  Sec. 21 Twp. 14S Range 6E  
 Owner Mary Ready White Waterville, Kansas  
 address  
 Nature of Deposit Dry Accessibility Fair  
 Status of Site Open site; not sampled

EXPLORATION DATA

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	3/8	5/16				

CORRELATION DATA

Geological Age Quaternary  
 Geological Source Grand Island 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

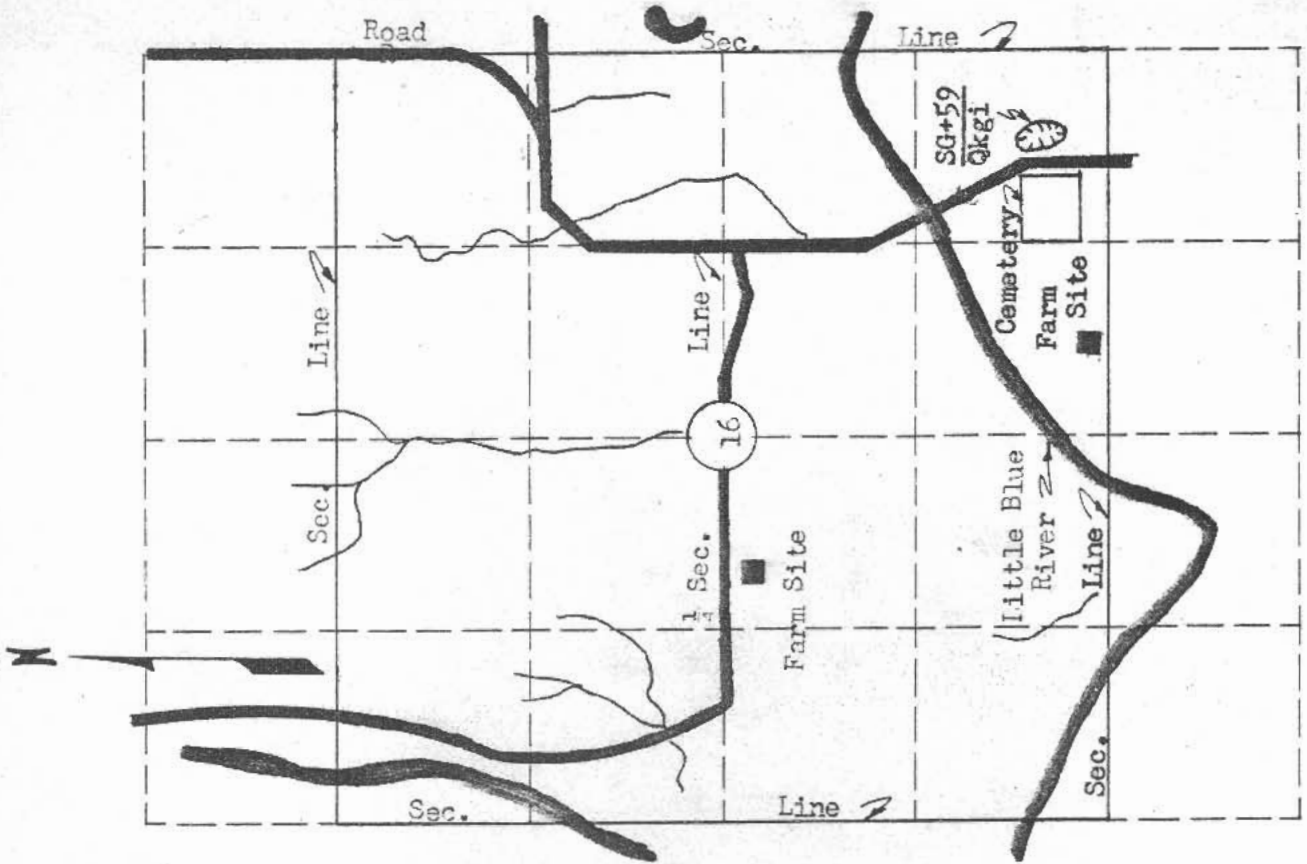
Site No. SG+59 Date June, 1965  
Qkgl  
 Material Sand and Gravel County Marshall  
 Location SE $\frac{1}{4}$  SE $\frac{1}{4}$  Sec. 16 Twp. 4S Range 6E  
 Owner Hugo P. and Edna Bogler Waterville, Kansas  
 name address  
 Nature of Deposit Dry Accessibility Good  
 Status of Site Open site; not sampled

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	3/8	5/8	1	16	30					50	100	

CORRELATION DATA

Geological Age Quaternary  
 Geological Source Grand Island 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

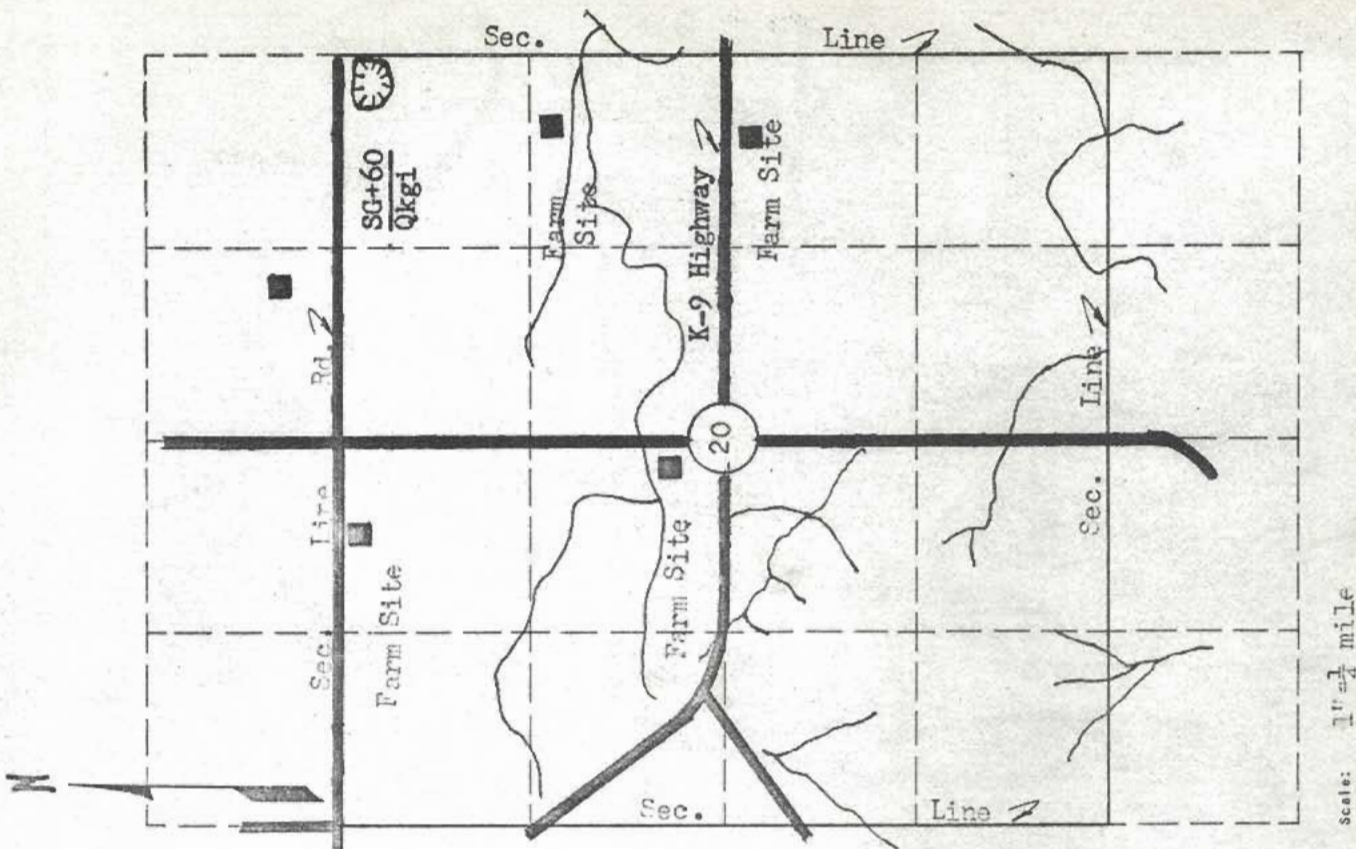
Site No. SG+60  
Qkgl  
 Date June, 1965  
 Material Sand and Gravel County Marshall  
 Location NE<sup>1</sup> Sec. 20 Twp. 4S Range 6E  
 Owner Arch J. Arganbright Waterville, Kansas  
 name address  
 Nature of Deposit Dry Accessibility Good  
 Status of Site Open site; not sampled

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

CORRELATION DATA

Geological Age Quaternary  
 Geological Source Grand Island 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

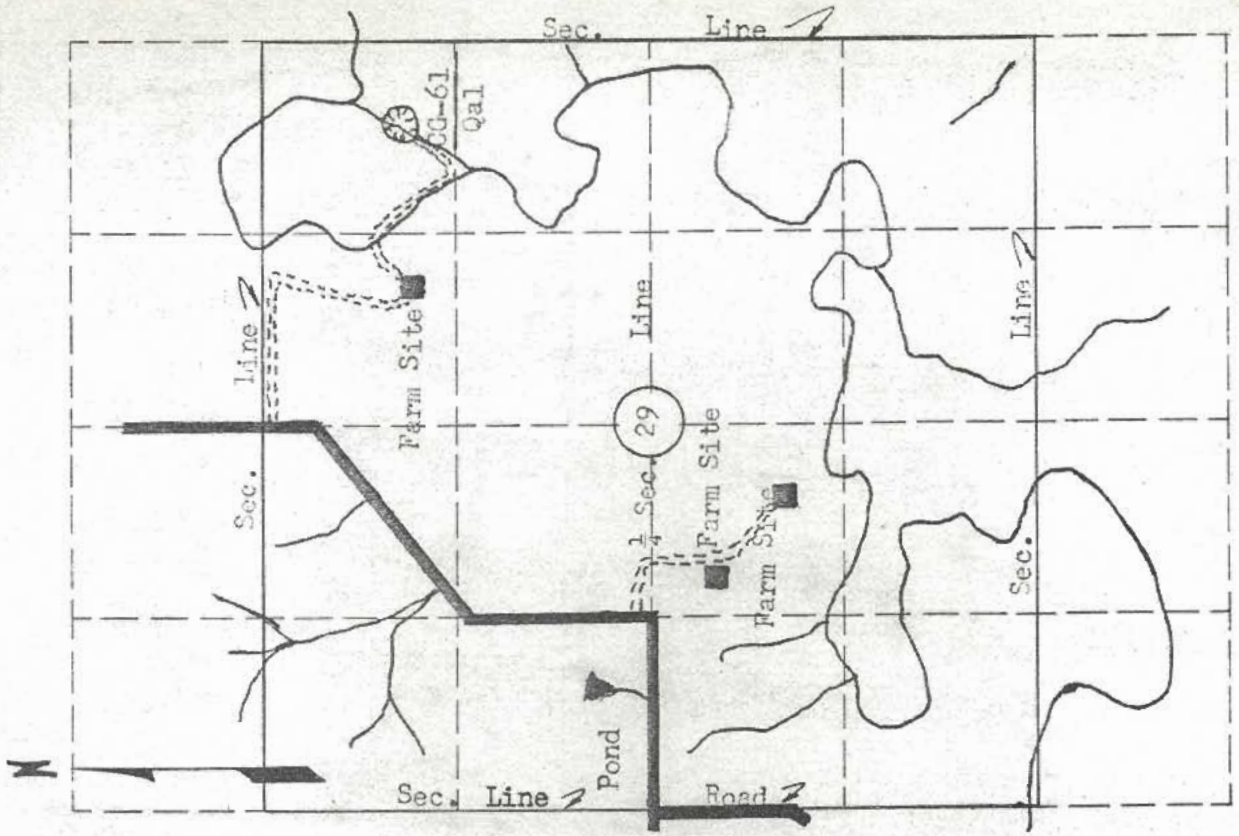
Site No. CG-61 Date June, 1965  
Qal  
 Material Chert Gravel County Marshall  
 Location NE 1/4 NE 1/4 Sec. 29 Twp. 14S Range 6E  
 Owner Allen and Emogene Travelute Waterville, Kansas  
 name address  
 Nature of Deposit Wet Accessibility Fair  
 Status of Site Open site; not sampled

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

CORRELATION DATA

Geological Age Quaternary  
 Geological Source Alluvium  
 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

CG+62  
Qp-kg

Site No. \_\_\_\_\_ Date June, 1965

Material Chert Gravel County Marshall

Location SW 1/4, NE 1/4 Sec. 30 Twp. 4S Range 6E

Owner Charles T. Padgett c/o Veterans Adm. Center, Wichita, Kansas

Nature of Deposit Dry Accessibility Good

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				

CORRELATION DATA

Geological Age Quaternary

Geological Source Pre-Kansas Gravel

Material Similar to \_\_\_\_\_

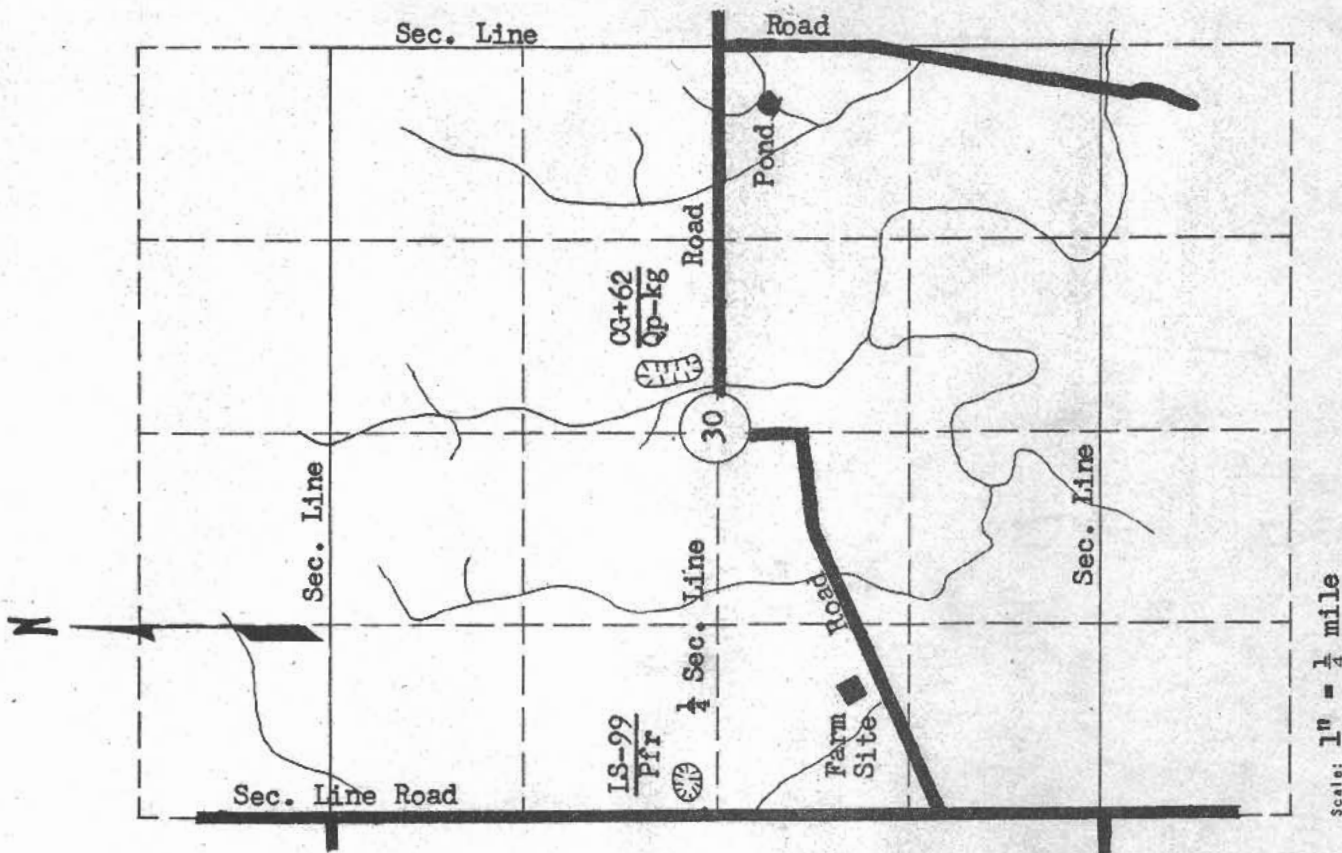
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Wear \_\_\_\_\_

Absorption \_\_\_\_\_ Soundness \_\_\_\_\_

Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks \_\_\_\_\_



MATERIAL SURVEY REPORT

Site No. SG+63  
Qal  
 Date June, 1965  
 Material Sand-Gravel County Marshall  
 Location NW 1/4 NE 1/4 Sec. 31 Twp. 5S Range 8E  
 Owner Federal Government address  
 Nature of Deposit Dry Accessibility Fair  
 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.L.		
				1 1/2	3/4	3/8	1/4	3/16	1/8	3/32						

CORRELATION DATA

Geological Age Quaternary  
 Geological Source Alluvium  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Mt. Cu.ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks \_\_\_\_\_

