














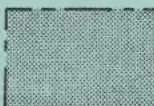


APPENDIX II

The following Site Data Forms are designated as Prospective Sites; Not Sampled. The sites described herein are depicted on the county materials maps as a "■".

LEGEND

	Fence		Farm site
	Trail or lane		Open materials site
	Railroad		Prospective materials site
	Road		Center of section
	Hedge or trees		Cemetery
	Major streams		School
	Intermittent streams		Church
	Pond or lake		Town or city

MATERIAL SURVEY REPORT

Site No. SG+42  
Qm  
 Date April, 1963  
 Material Sand and Gravel County Ellis  
 Location SW 1/4, NW 1/4 Sec. 17 Twp. 11S Range 16W  
 Owner E. M. Chesney address Plainville, Kansas  
 Nature of Deposit Dry Accessibility Fair  
 Status of Site Prospective site; not sampled

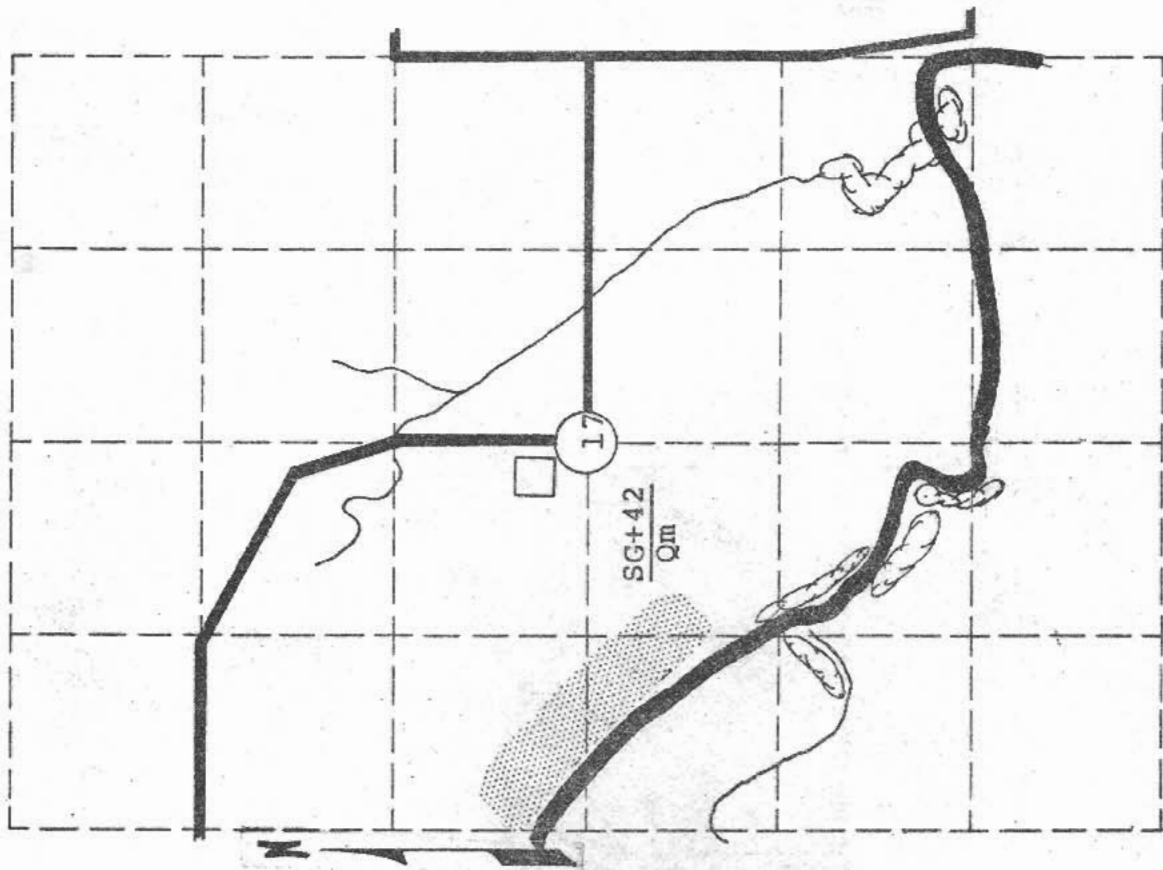
EXPLORATION DATA

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 Pleistocene  
 Geological Source Meade Formation  
 Material Similar to \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
 Los Angeles Near \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks Overburden will be less than 5 ft. on end of nose and will become heavier upslope. Anticipated material will be fine to medium sand with some limestone gravel.



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

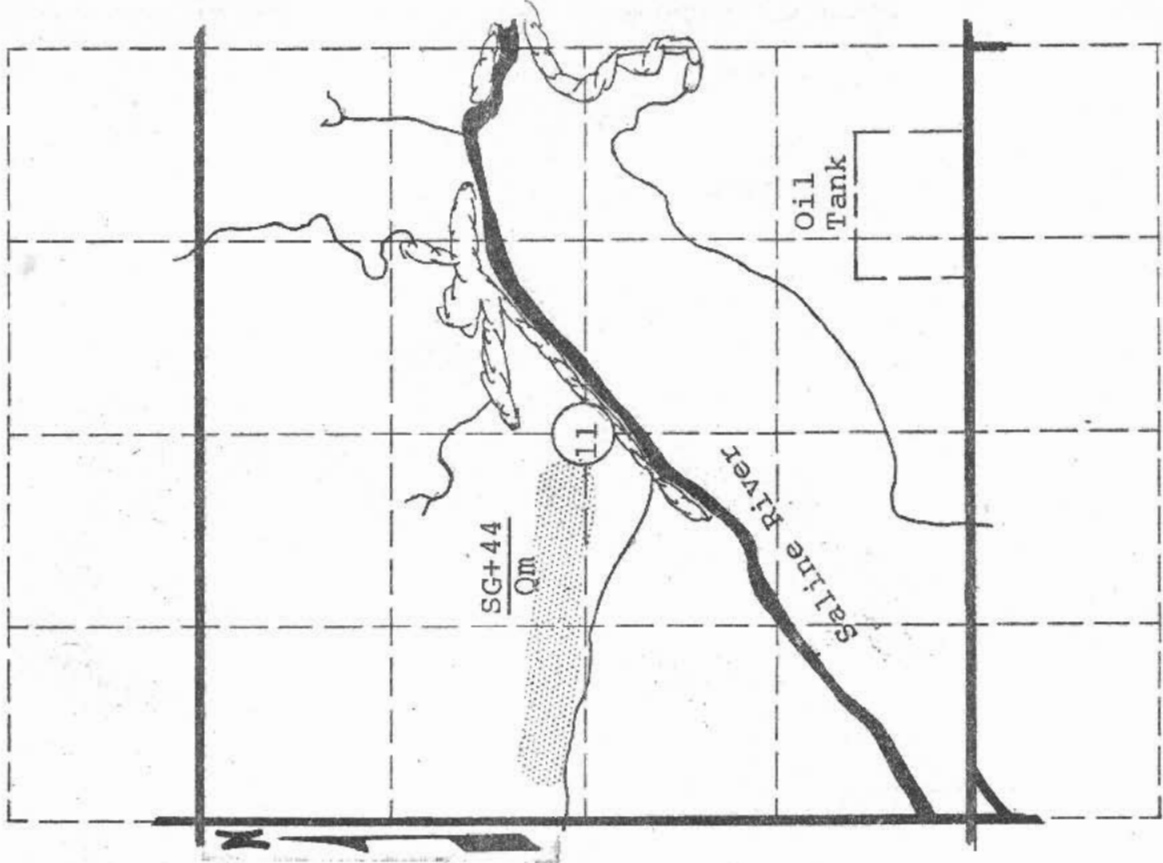
Site No. SG+44 Date April 1963  
Qm  
 Material Sand and Gravel County Ellis  
 Location S 1/2 NW 1/4 Sec. 11 Twp. 11S Range 17W  
 Owner Harold W. McCombs address Unknown  
 Nature of Deposit Dry Accessibility Fair, no direct route  
 Status of Site Prospective site; not sampled

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 Pleistocene  
 Geological Source Meade Formation  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry)  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks Material probably composed of fine to medium sand with some soft limestone gravel



Scale: 1" = 1/4 Mile



MATERIAL SURVEY REPORT

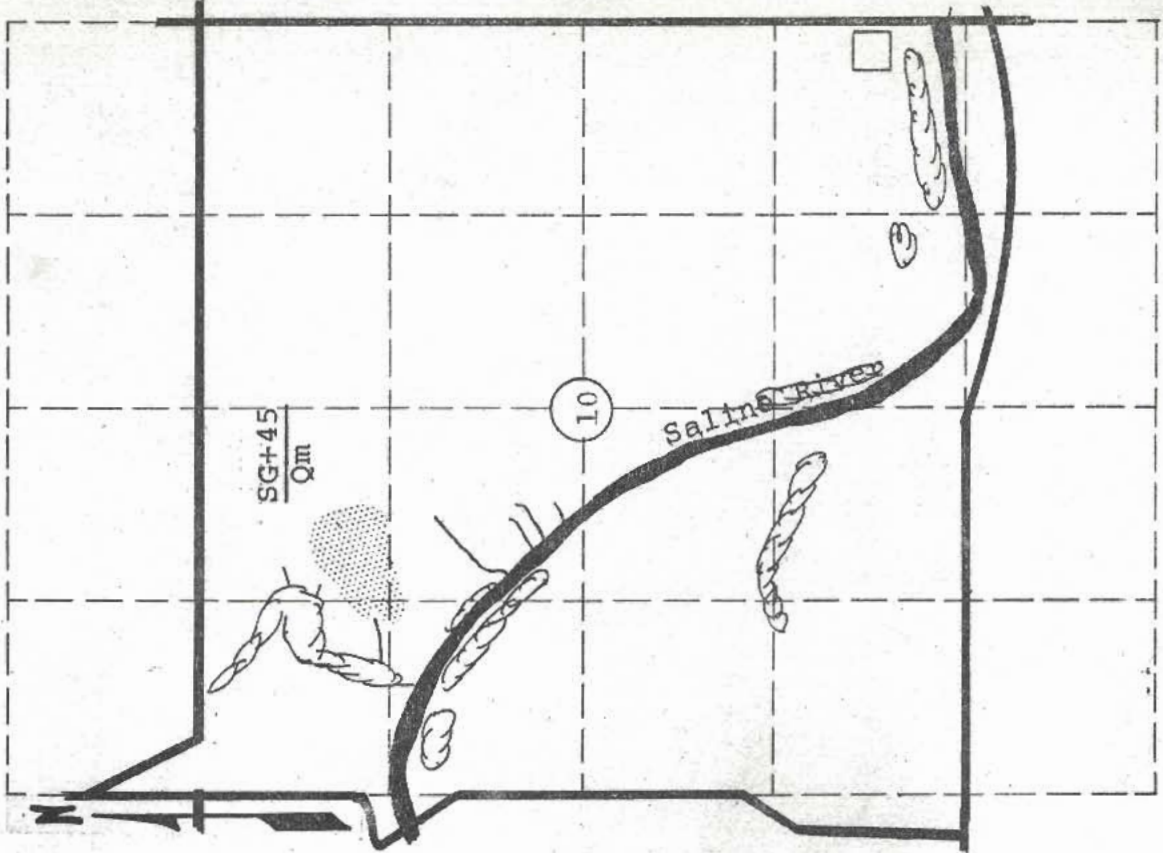
Site No. SG+45  
Qm  
 Date April 1963  
 Material Sand and Gravel County Ellis  
 Location SE 1/4 NW 1/4 Sec. 10 Twp. 11S Range 17W  
 Owner Herbert A. Simpson Rte. 2, Plainville, Kansas  
 address  
 Nature of Deposit Dry Accessibility Poor, no direct  
 Status of Site Prospective site; not sampled

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

CORRELATION DATA

Geological Age Pleistocene  
 Geological Source Meade Formation  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (dry) \_\_\_\_\_  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks Material probably composed of fine to medium sand with some soft limestone gravel.



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

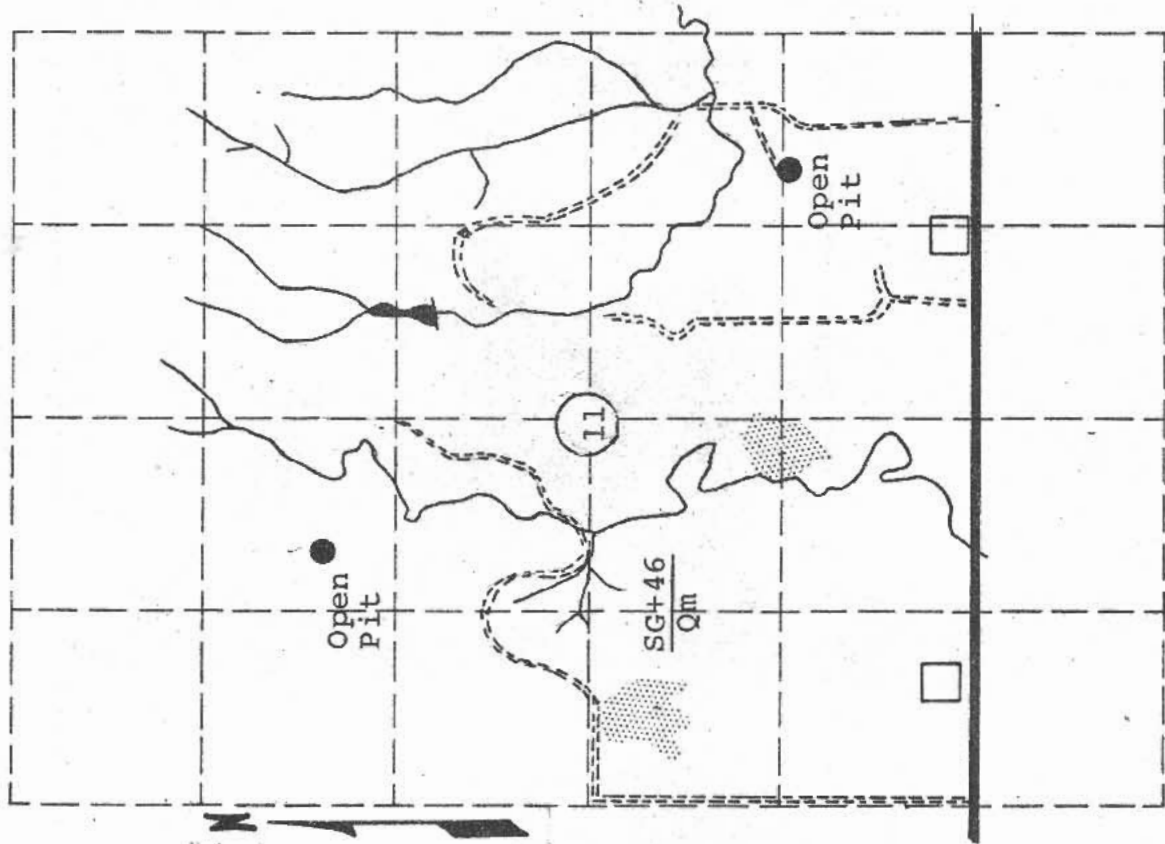
Site No. SG+46  
Qm  
 Date April 1963  
 Material Sand and Gravel County Ellis  
 Location SW $\frac{1}{4}$  Sec. 11 Twp. 11S Range 18W  
 Owner H. H. Kingsbury address Unknown  
 Nature of Deposit Dry Accessibility POOR-no road to site  
 Status of Site Prospective site; not sampled

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 Meade Formation  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Mt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks Material is probably composed of fine to medium sand with some limestone gravel.



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

SG+47

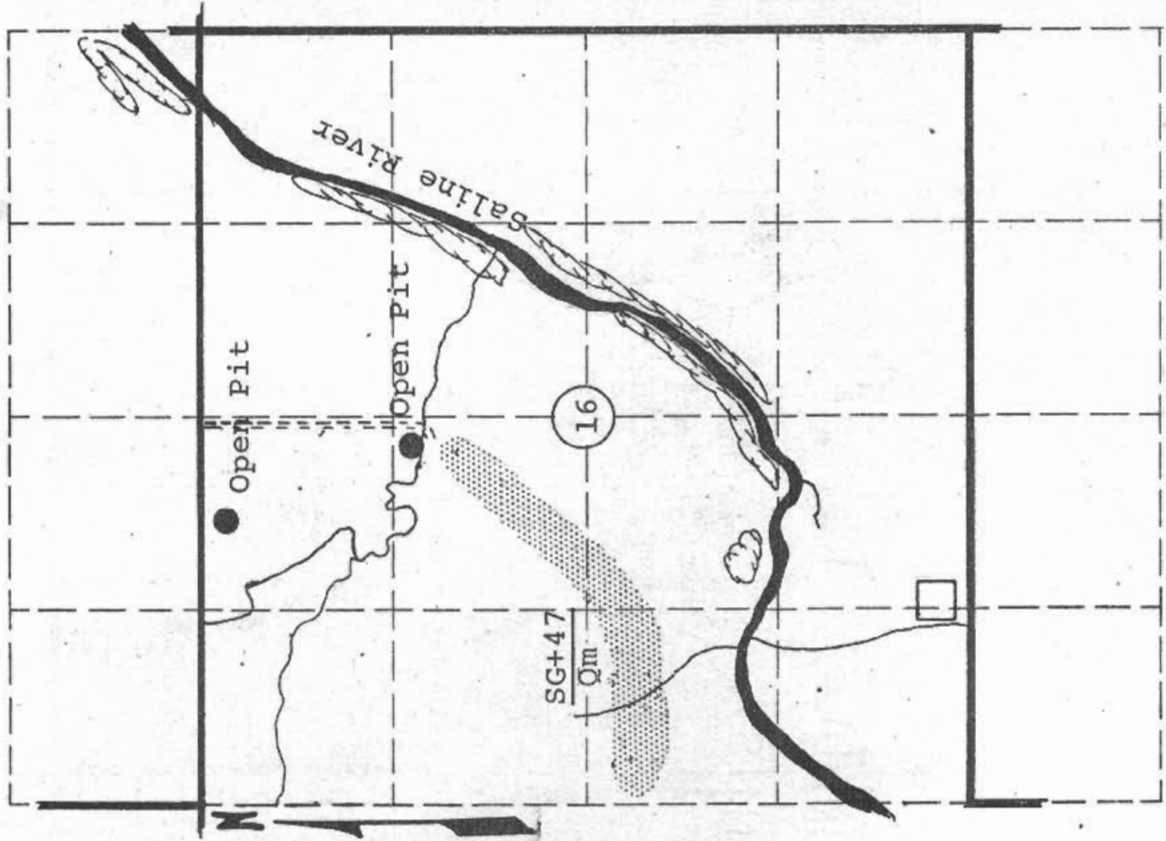
Site No. Qm Date April 1963  
 Material Sand and Gravel County Ellis  
 Location S 1/2 NW 1/4 Sec. 16 Twp. 11S Range 18W  
 Owner F. F. Wasinger, et al Hays, Kansas  
 name address  
 Nature of Deposit Dry Accessibility Fair  
 Status of Site Prospective site; not sampled

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 Meade Formation  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Set.) \_\_\_\_\_ (Dry)  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks Anticipated material will be composed of fine to medium siliceous sand with limestone gravel.



Scale: 1" = 1/4 Mile



MATERIAL SURVEY REPORT

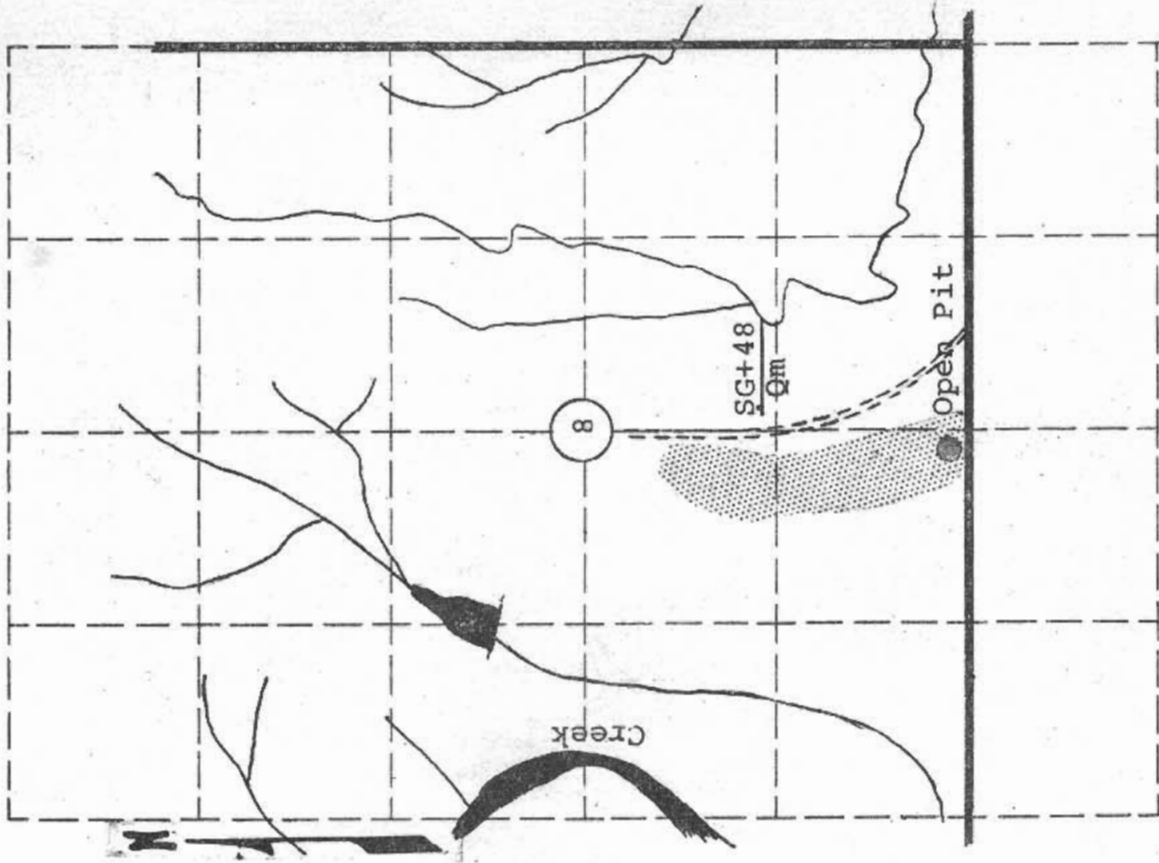
SG+48  
 Site No. Qm Date April 1963  
 Material Sand and Gravel County Ellis  
 Location SE 1/4 SW 1/4 Sec. 8 Twp. 11S Range 18W  
 Owner A. B. Peatling Unknown  
 Nature of Deposit Dry Accessibility Good  
 Status of Site Prospective site; not sampled

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 Pleistocene  
 Geological source Meade Formation  
 Material Similar to \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry)  
 Los Angeles Near \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu. Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks Anticipated material will be composed of fine to medium siliceous sand with some soft limestone gravel.



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

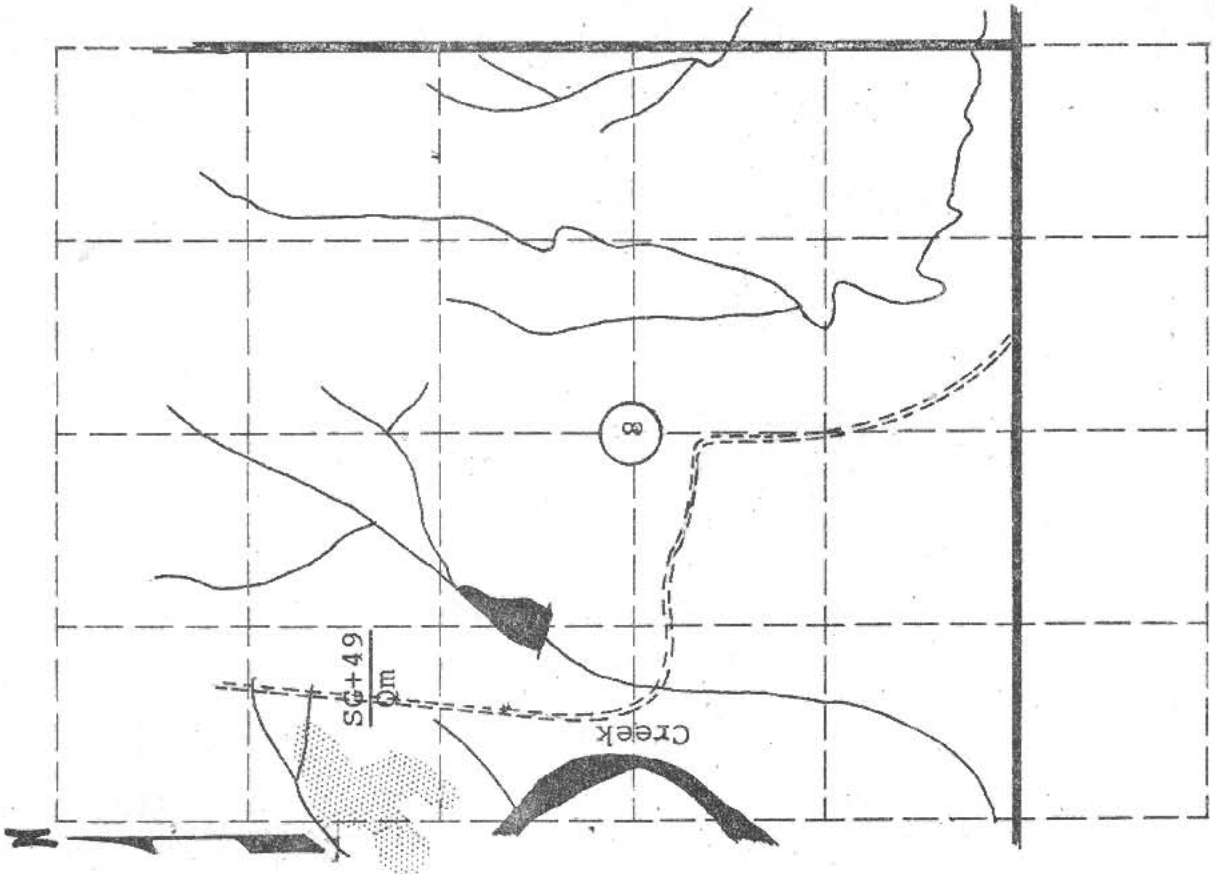
Site No. SG+49 Date April 1963  
 Material Sand and Gravel County Ellis  
 Location NW 1/4 NW 1/4 Sec. 8 Twp. 11S Range 18W  
 Owner H. B. Peatling Unknown address  
 Nature of Deposit Dry Accessibility Fair  
 Status of Site Prospective site; not sampled

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 Meade Formation  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry)  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu. Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks Anticipated material will be composed of fine siliceous sand and soft limestone gravel.





MATERIAL SURVEY REPORT

Site No. SG+50 Date April 1963  
Qs  
 Material Sand and Gravel County Ellis  
 Location E 1/2 Sec. 12 Twp. 11S Range 19W  
 Owner See "Remarks" address  
 Nature of Deposit Dry Accessibility Fair  
 Status of Site Prospective 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	1/8	16	30					50	100	

CORRELATION DATA

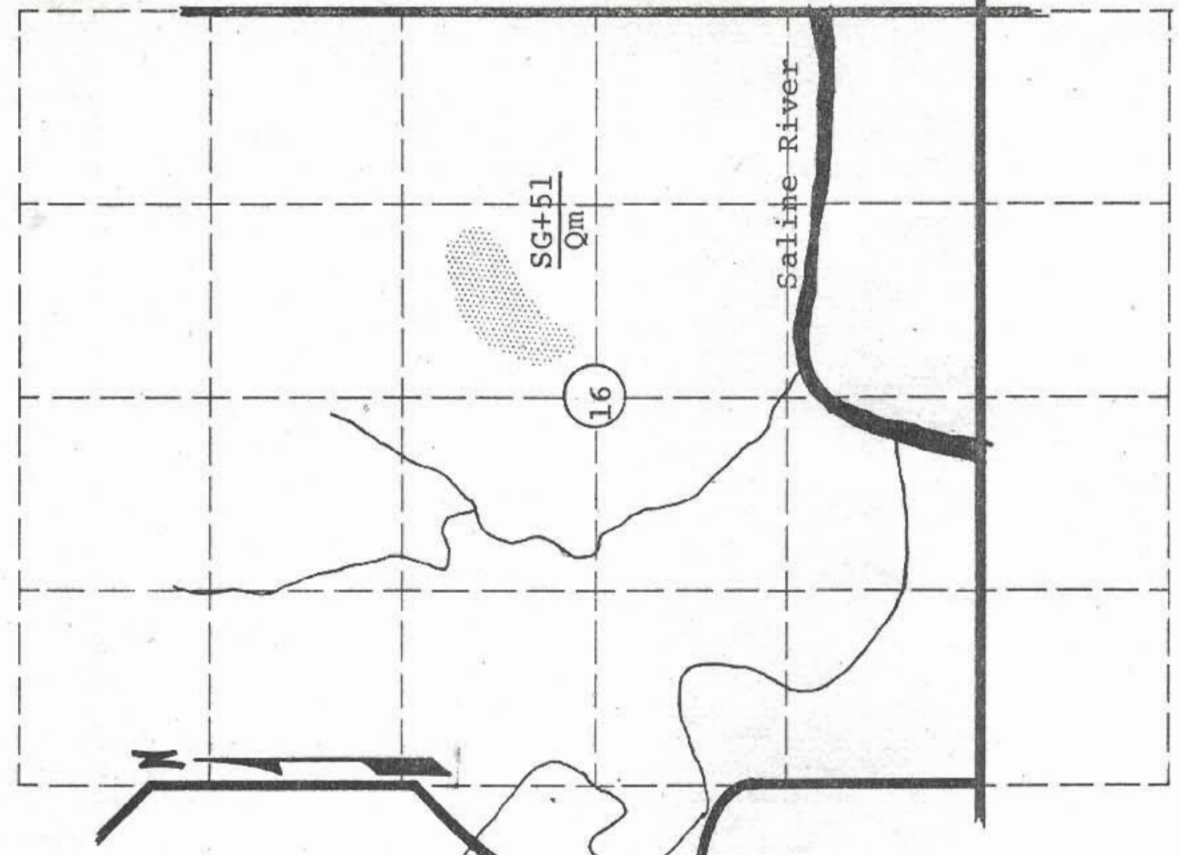
Geological Age Pleistocene  
 Geological Source Sanborn Formation  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) (Dry)  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks Tenant in lieu of Owner is Gladys Gassaway  
Box 56, Plainville, Kansas

Anticipated material will be fine to medium siliceous sand and soft limestone gravel.



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT



Site No. SG+51  
Qm Date April 1963  
 Material Sand and Gravel County Ellis  
 Location SW 1/4 NE 1/4 Sec. 16 Twp. 11S Range 19W  
 Owner Louise Sessin Zurick, Kansas  
 name address  
 Nature of Deposit Dry Accessibility Poor, no direct road  
 Status of Site Prospective 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 Pleistocene  
 Geological Source Meade Formation  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry)  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks Anticipated material will be composed of siliceous sand and some soft limestone gravel.

Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

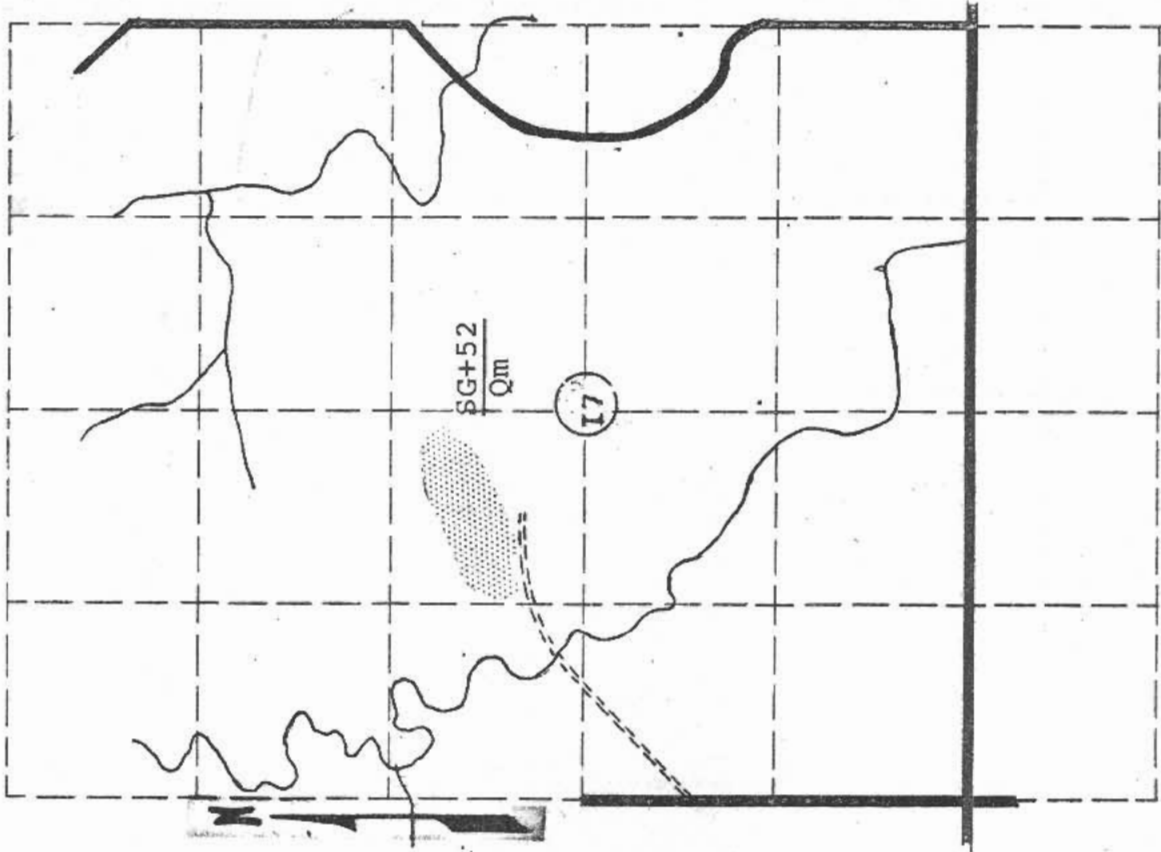
Site No. SG+52  
Qm  
 Date April 1963  
 Material Sand and Gravel County Ellis  
 Location SE 1/4 NW 1/4 Sec. 17 Twp. 11S Range 19W  
 Owner Ellis County Courthouse  
 address  
 Nature of Deposit Dry Accessibility Fair  
 Status of Site Prospective site; not sampled

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

CORRELATION DATA

Geological Age Pleistocene  
 Geological Source Meade Formation  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Co.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks Anticipated material will be composed of fine to medium siliceous sand with some soft limestone gravel



Scale: 1" = 1/4 Mile





MATERIAL SURVEY REPORT

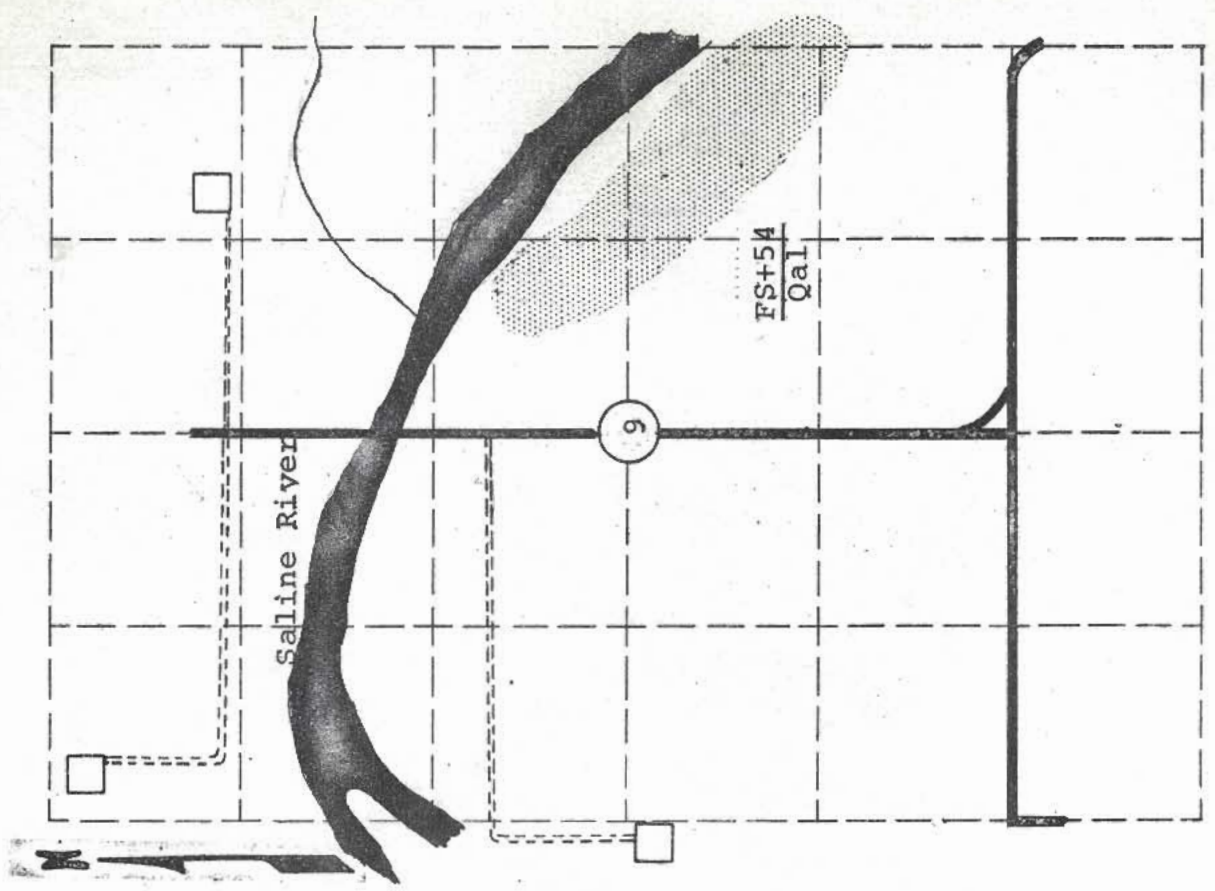
FS+54  
Qal  
 Site No. \_\_\_\_\_ Date April 1963  
 Material Fine Sand & Limestone county Ellis  
 Location SW 1/4 NE 1/4 Sec. 9 Twp. 11S Range 20W  
 Owner H. A. Fischer Ellis, Kansas address  
 Nature of Deposit Wet Accessibility Good  
 Status of Site Prospective site; not sampled

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	4	8	16	30	50					100

CORRELATION DATA

Geological Age Recent  
 Geological Source Alluvium  
 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

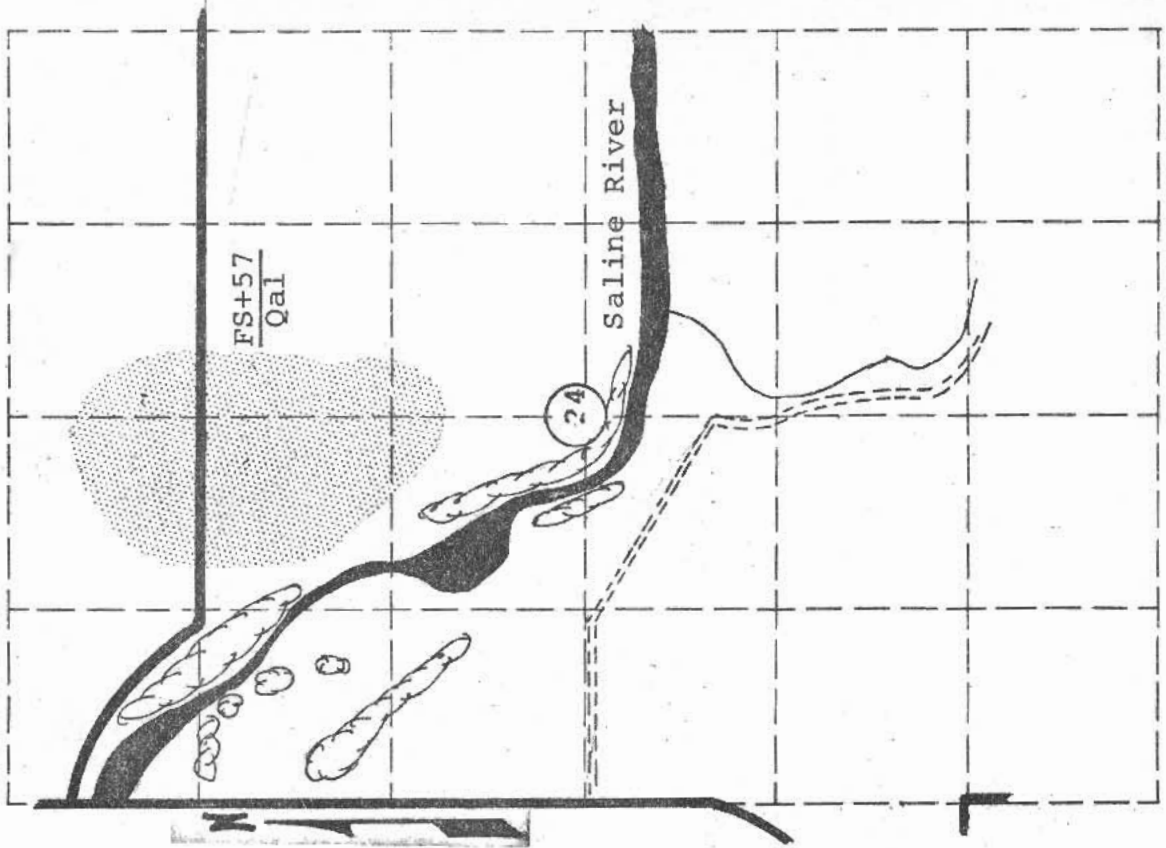
Site No. FS+57 Date April 1963  
Qal  
 Material Fine Sand County Ellis  
 Location NE 1/4 NW 1/4 sec. 24 Twp. 11S Range 20W  
 Owner Mildred Davis, et al address Ellis, Kansas  
 Nature of Deposit Dry Accessibility Good  
 Status of Site Prospective site; not sampled

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

CORRELATION DATA

Geological Age Recent  
 Geological Source Alluvium  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (sat.) (Dry)  
 Los Angeles Near \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu. Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks Anticipated material will be composed of fine siliceous sand and soft limestone gravel.



STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

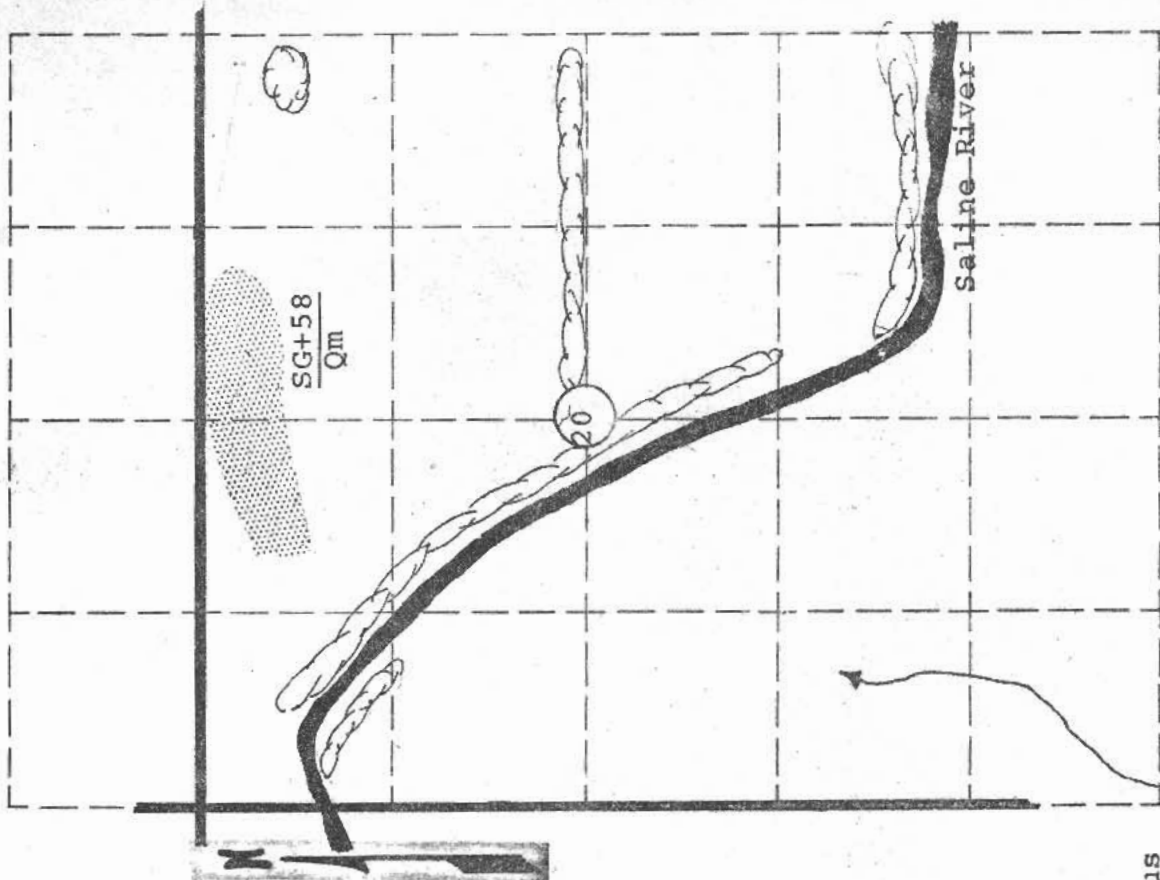
Site No. SG+58  
Qm Date April 1963  
 Material Sand and Gravel County Ellis  
 Location NW 1/4 NE 1/4 Sec. 20 Twp. 11S Range 19W  
 Owner Arthur J. Wiles 1406 Ash, Hays, Kansas  
NAME address  
 Nature of Deposit Dry Accessibility Good  
 Status of Site Prospective site; not sampled

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	8	16				

CORRELATION DATA

Geological Age Pleistocene  
 Geological Source Meade Formation  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks Anticipated material will be composed of siliceous sand and soft limestone gravel.



Scale: 1" = 1/4 Mile



MATERIAL SURVEY REPORT

Site No. FS+59 Date April 1963  
Qal  
 Material Fine Sand  
 Location C SW $\frac{1}{4}$  Sec. 21 Twp. 11S Range 19W  
 Owner Albert Sessin County Ellis  
Zurick, Kansas  
 Nature of Deposit Wet Accessibility Fair  
 Status of Site Prospective site; not sampled

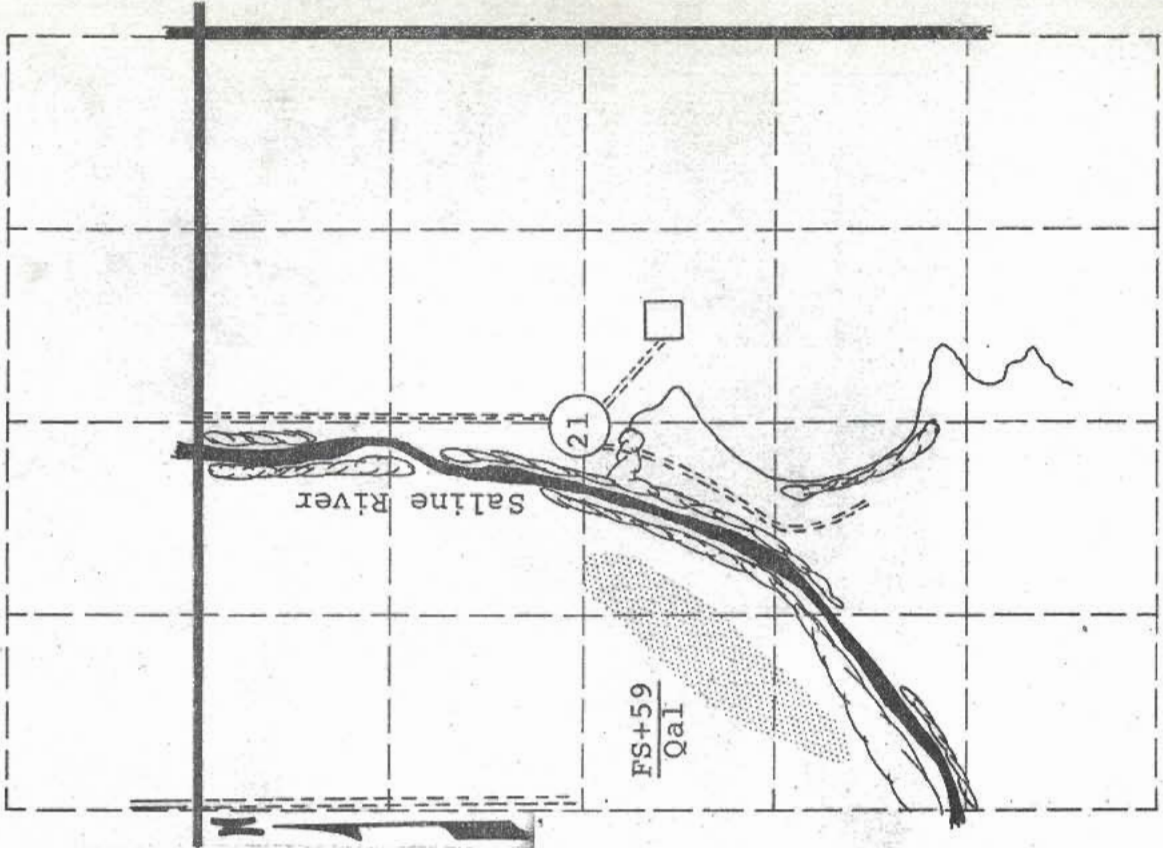
EXPLORATION DATA

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	1/8	16				

CORRELATION DATA

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

Remarks Anticipated material is fine sand and soft limestone pebbles.



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

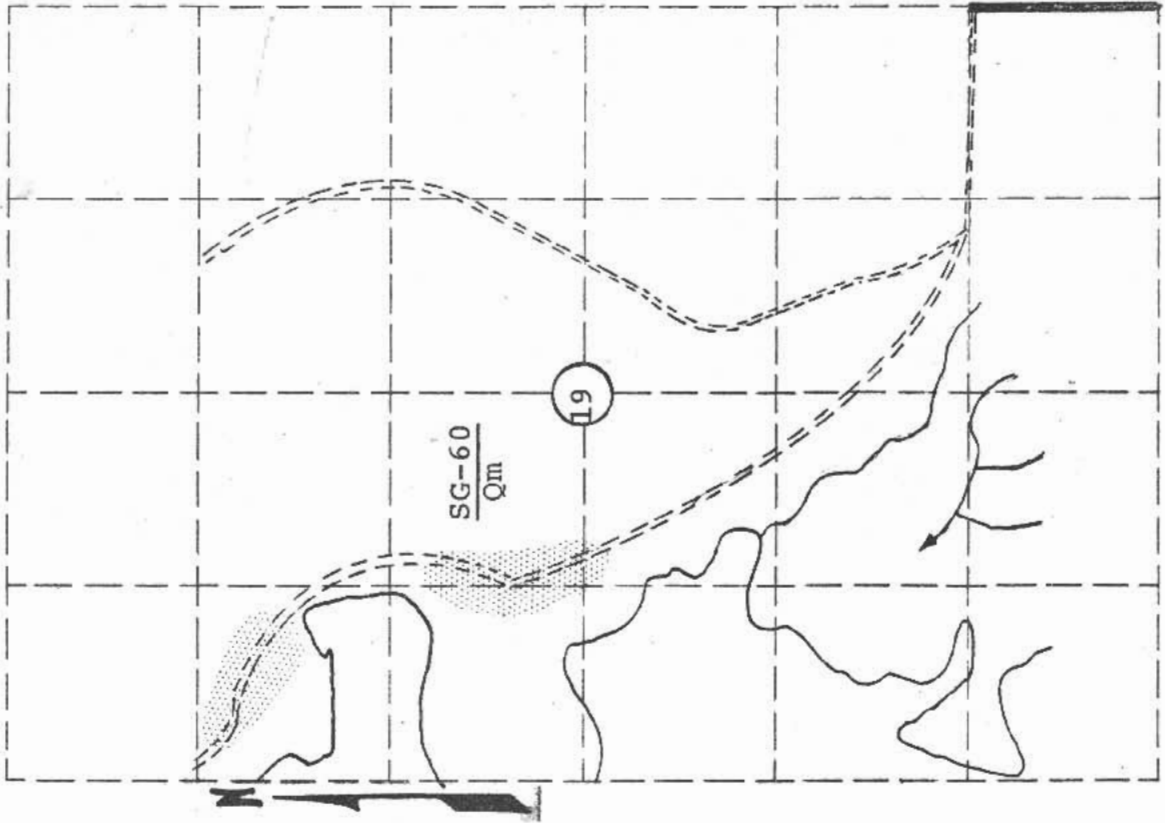
SG-60  
 Site No. Qm Date April 1963  
 Material Sand and Gravel County Ellis  
 Location Center NW 1/4 Sec. 19 Twp. 11S Range 18W  
 Owner Nellie G. Divine name address Unknown  
 Nature of Deposit Dry Accessibility POOR  
 Status of Site Prospective site; not sampled

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	8	16	30					50	100

CORRELATION DATA

Geological Age Pleistocene  
 Geological Source Meade Formation  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) (Dry)  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks Anticipated material will be composed of siliceous sand and gravel with soft limestone gravel.



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

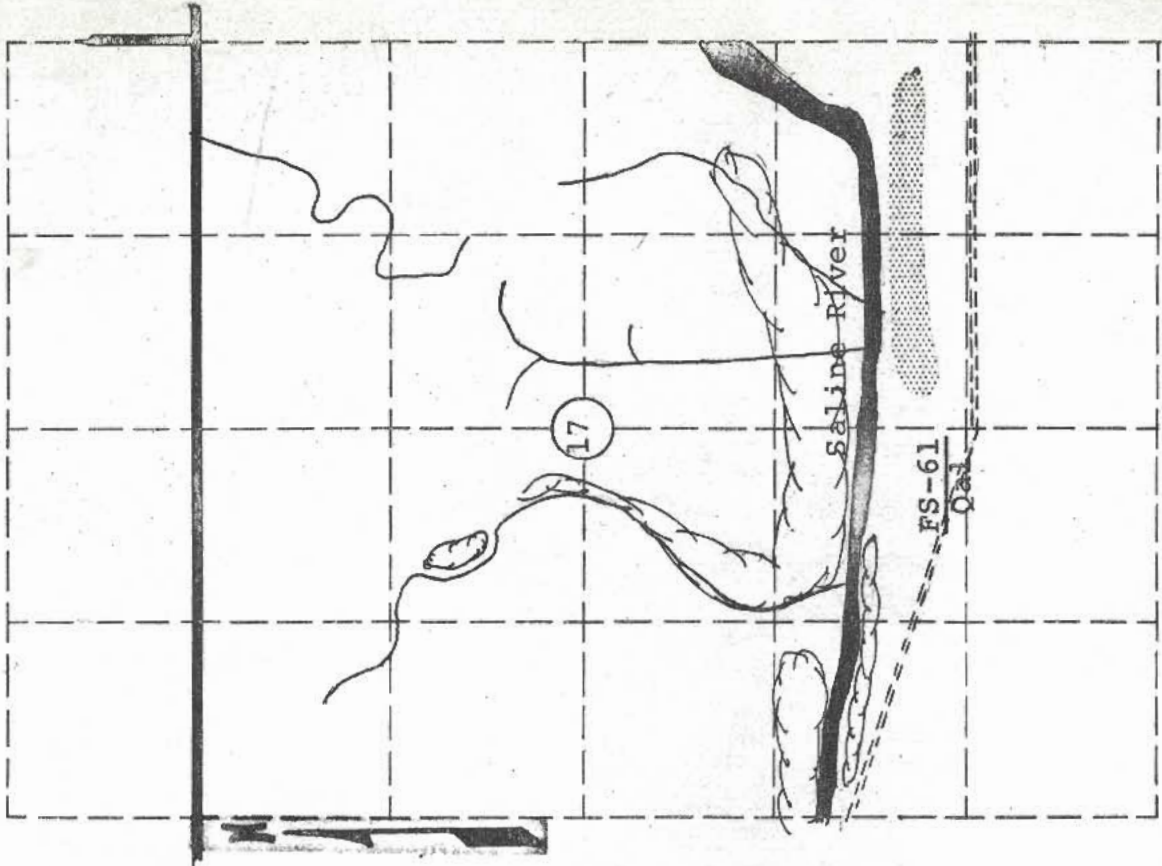
Site No. FS-61  
Qal Date April 1963  
 Material Fine Sand County Ellis  
 Location SE 1/4 SE 1/4 Sec. 17 Twp. 11S Range 18W  
 Owner Verne L. Peatling Unknown address  
 Nature of Deposit Dry Accessibility Good  
 Status of Site Prospective site; not sampled

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 Recent  
 Geological Source Alluvium  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry)  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks Anticipated material is fine sand and soft limestone pebbles.

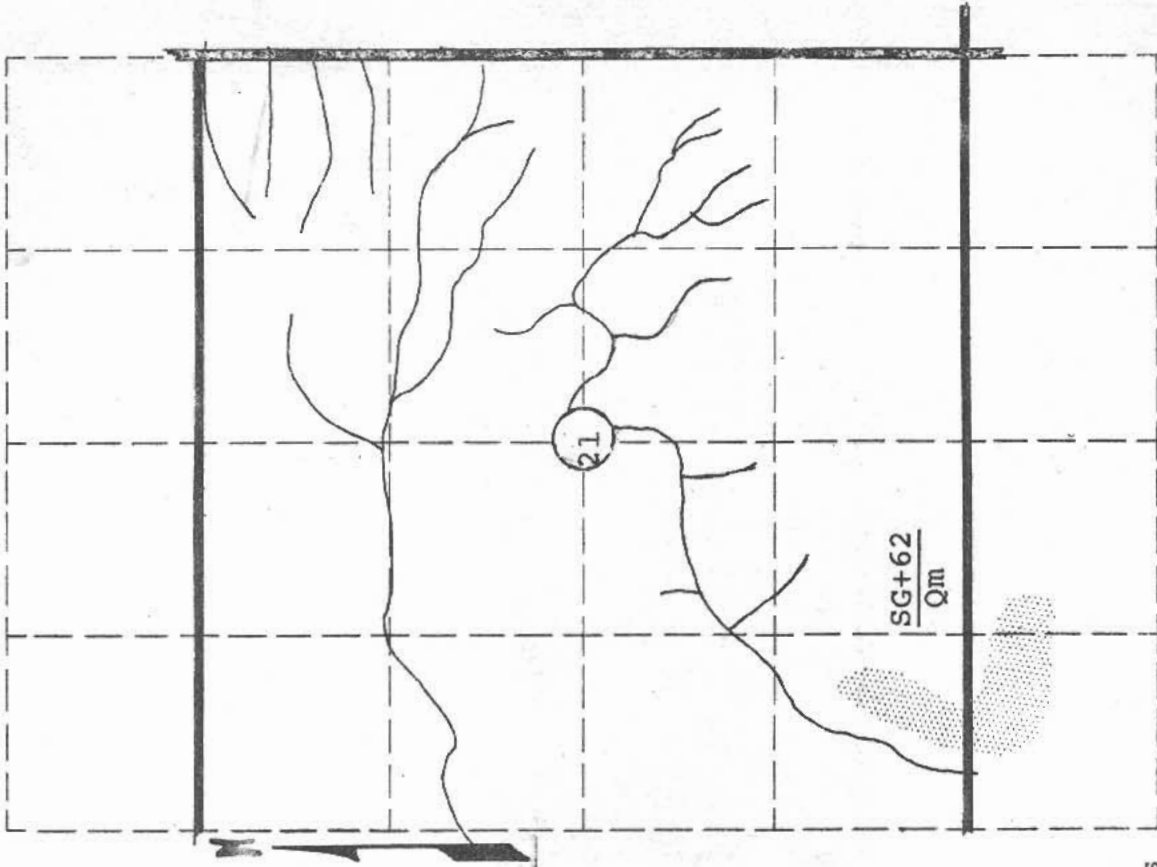


Scale: 1" = 1/2 Mile



MATERIAL SURVEY REPORT

SG+62  
 Site No. Qm Date April 1963  
 Material Sand and Gravel County Ellis  
 Location SW 1/4 SW 1/4 Sec. 21 Twp. 11S Range 16W  
 Owner George & Theo Potter, et al Plainville, Kansas  
 Nature of Deposit Dry Accessibility Fair, no direct road  
 Status of Site Prospective 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 1/2	3/4	3/8	4	8	16					30	50	100

CORRELATION DATA

Geological Age Pleistocene  
 Geological Source Meade Formation  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (set.) \_\_\_\_\_ (Dry)  
 Los Angeles Near \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks Anticipated material will be composed of siliceous sand and gravel and soft limestone gravel.

Scale: 1" = 1/2 Mile

MATERIAL SURVEY REPORT

Site No. SG+63  
Qm

Date April 1963

Material Sand and Gravel County Ellis

Location C NE 1/4 Sec. 28 Twp. 11S Range 16W

Owner Ester McGuire 5014 Dolphin Pl., LaJolla, Calif.  
address

Nature of Deposit Dry Accessibility Fair

Status of Site Prospective 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 Meade Formation

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

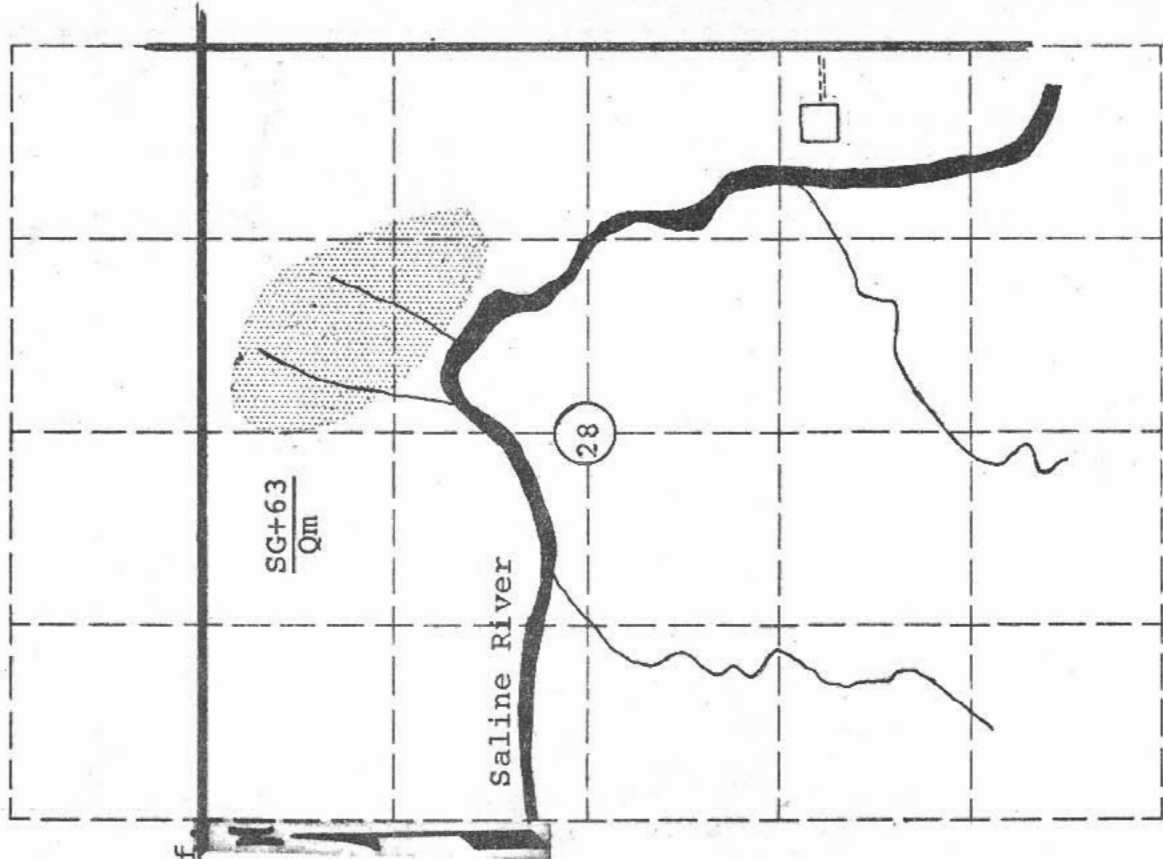
Specific Gravity (Sat.) \_\_\_\_\_ (Dry)

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

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

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

Remarks: Anticipated material will be composed of siliceous sand and gravel and soft limestone gravel.



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

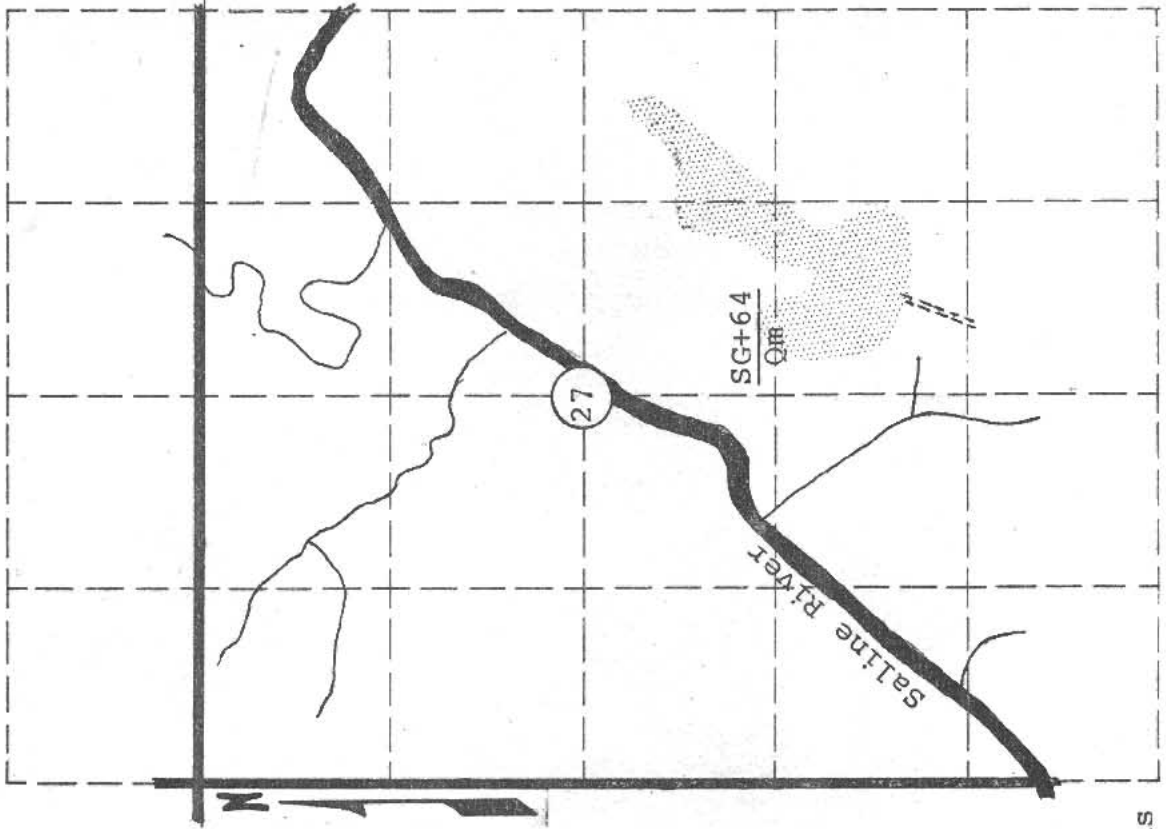
SG+64  
Qm  
 Site No. \_\_\_\_\_ Date April 1963  
 Material Sand and Gravel County Ellis  
 Location C SE 1/4 Sec. 27 Twp. 11S Range 16W  
 Owner Ralph C. Bowlby Rte. 2, Natoma, Kansas  
 address  
 Nature of Deposit Dry Accessibility Poor  
 Status of site Prospective site; not sampled

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 Pleistocene  
 Geological Source Meade Formation  
 Material Similar to \_\_\_\_\_  
 Specific Gravity (sat.) \_\_\_\_\_ (dry) \_\_\_\_\_  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks Anticipated material will be composed of siliceous sand and gravel and soft limestone gravel.





MATERIAL SURVEY REPORT

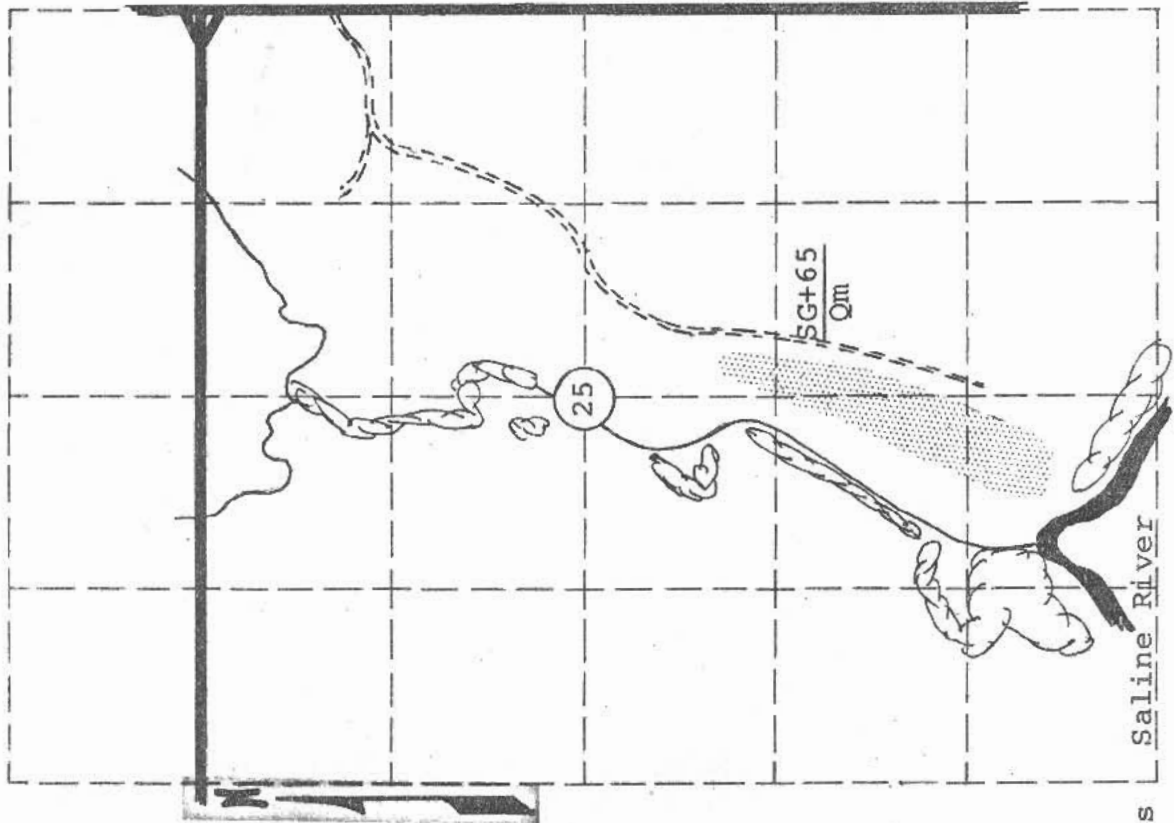
Site No. SG+65 Date April 1963  
Qm  
 Material Sand and Gravel County Ellis  
 Location SW 1/4 SE 1/4 Sec. 25 Twp. 11S Range 16W  
 Owner Eldon Chrisler Natoma, Kansas  
 name address  
 Nature of Deposit Dry Accessibility Fair  
 Status of Site Prospective site; not sampled

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 Pleistocene  
 Geological Source Meade Formation  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks Anticipated material will be composed of siliceous sand and gravel and soft limestone gravel.



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

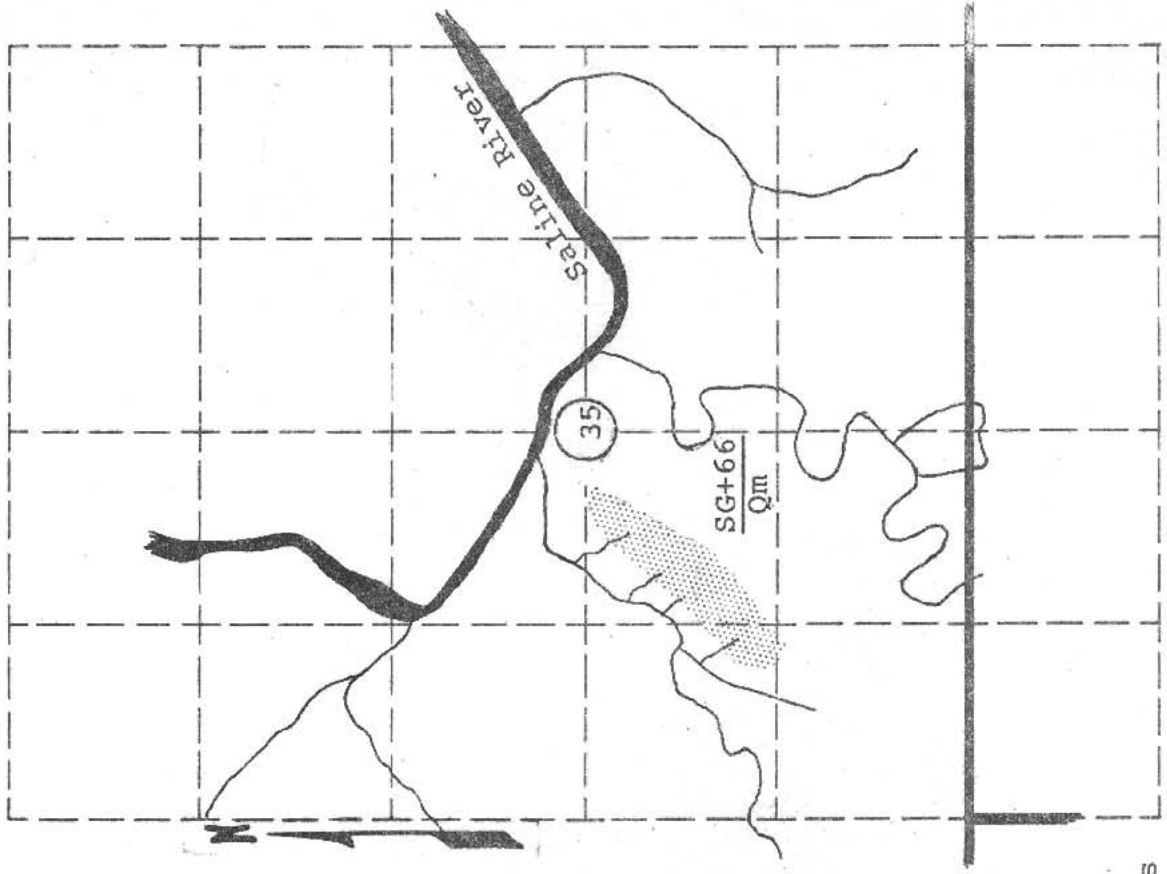
SG+66  
Qm  
 Site No. \_\_\_\_\_ date April 1963  
 Material Sand and Gravel County Ellis  
 Location NE 1/4 SW 1/4 Sec. 35 Twp. 11S Range 16W  
 Owner Don Chrisler Natoma, Kansas  
 name address  
 Nature of Deposit Dry Accessibility Fair  
 Status of Site Prospective site; not sampled

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

CORRELATION DATA

Geological Age Pleistocene  
 Geological Source Meade Formation  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Mt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks Anticipated material will be composed of siliceous sand and gravel and soft limestone gravel.



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

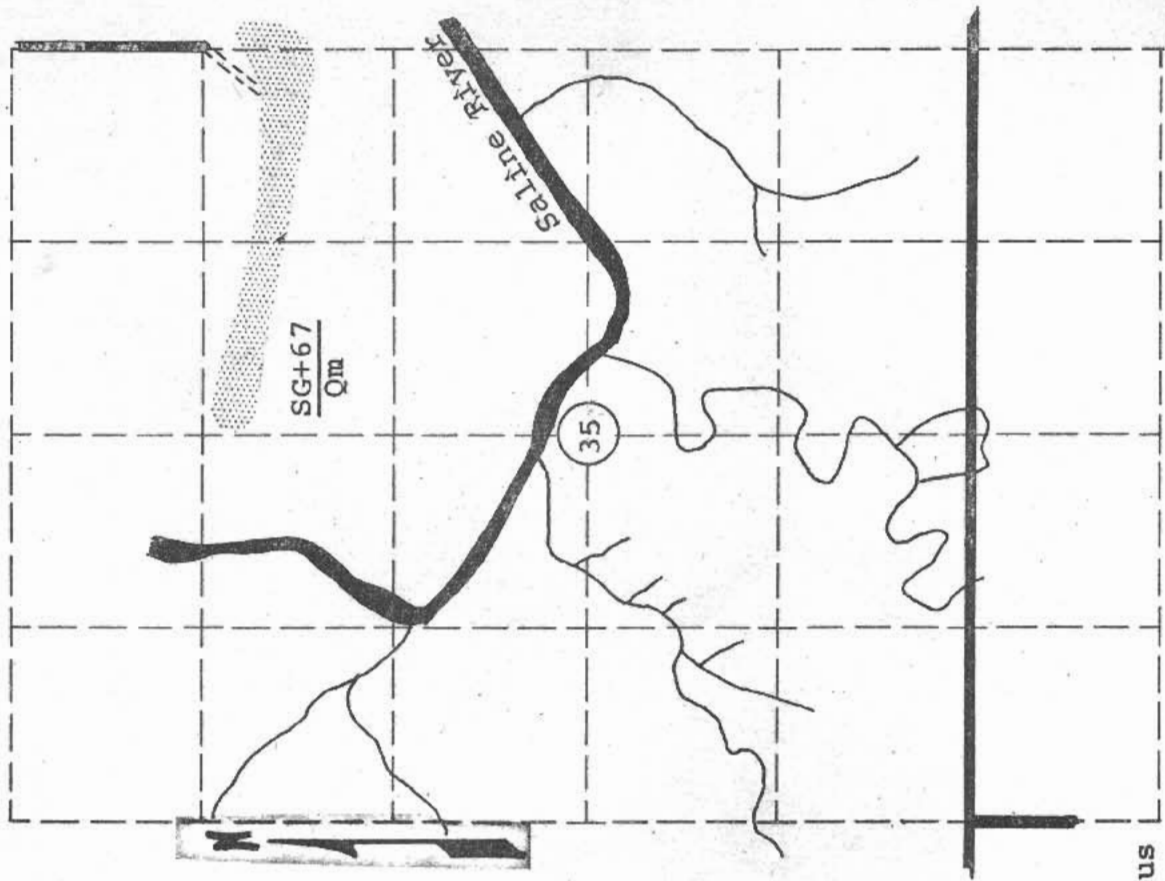
Site No. SG+67  
Qm  
 Date April 1963  
 Material Sand and Gravel County Ellis  
 Location NW 1/4 NE 1/4 Sec. 35 Twp. 11S Range 16W  
 Owner Don Chrisler Natoma, Kansas  
 Nature of Deposit Dry Accessibility Good  
 Status of site Prospective site; not sampled

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	3/8	4	8	16	30				50	100		

CORRELATION DATA

Geological Age Pleistocene  
 Geological source Meade Formation  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks Anticipated material will be composed of siliceous sand, gravel and soft limestone gravel.







MATERIAL SURVEY REPORT

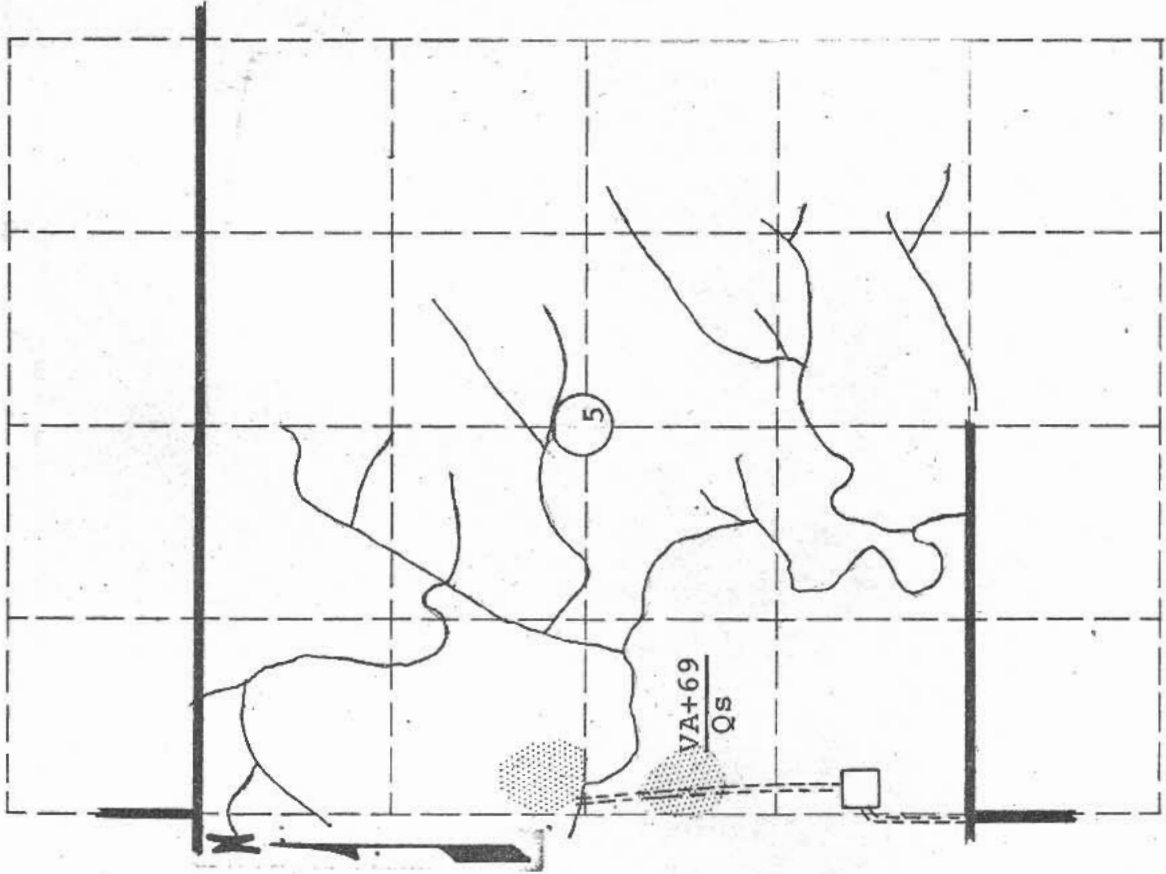
Site No. VA+69  
Qs  
 Date April 1963  
 Material Volcanic Ash County Ellis  
 Location SW 1/4 NW 1/4 Sec. 5 Twp. 13S Range 19W  
 Owner George A. Amrine, et al <sup>name</sup> Ellis, Kansas  
 Nature of Deposit Dry Accessibility Fair  
 Status of Site Prospective site; not sampled

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

CORRELATION DATA

Geological Age Pleistocene  
 Geological Source Sanborn Formation  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (dry)  
 Los Angeles Near \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Mt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks Approximately 10' of volcanic ash with as much as 8' of overburden upslope.



Scale: 1" = 1/4 Mile







MATERIAL SURVEY REPORT

**SG+72**  
Om  
 Site No. \_\_\_\_\_ Date April 1963  
 Material Sand and Gravel County Ellis  
 Location SE 1/4 SW 1/4 Sec. 2 Twp. 15S Range 20W  
 Owner Felix T. Worth Antonino, Kansas address  
 Nature of Deposit Dry Accessibility Fair  
 Status of Site Prospective site; not sampled

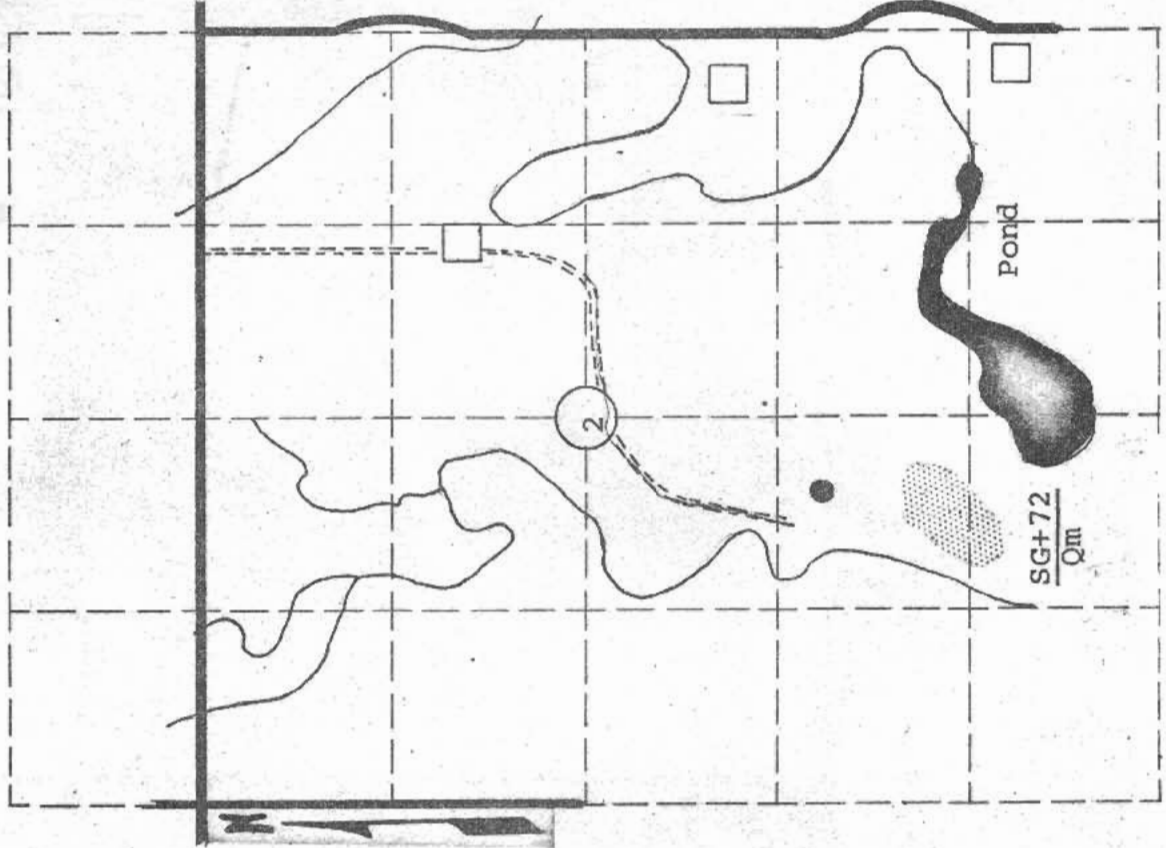
EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of over-burden	Depth of Material	Percent Retained							Mesh 200	B.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 Meade Formation  
 Material Similar to \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
 Los Angeles Near \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Mt. Cu. ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks Anticipated material will be composed of predominantly siliceous sand and gravel with some soft limestone gravel.



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

Site No. SG+73 Date April 1963  
Qm  
 Material Sand and Gravel County Ellis  
 Location NE 1/4 SE 1/4 Sec. 4 Twp. 15S Range 20W  
 Owner Jesse C. Gatewood Rte. 2, Hays, Kansas  
Jesse C. Gatewood address  
 Nature of Deposit Dry Accessibility Fair  
 Status of Site Prospective site; not sampled

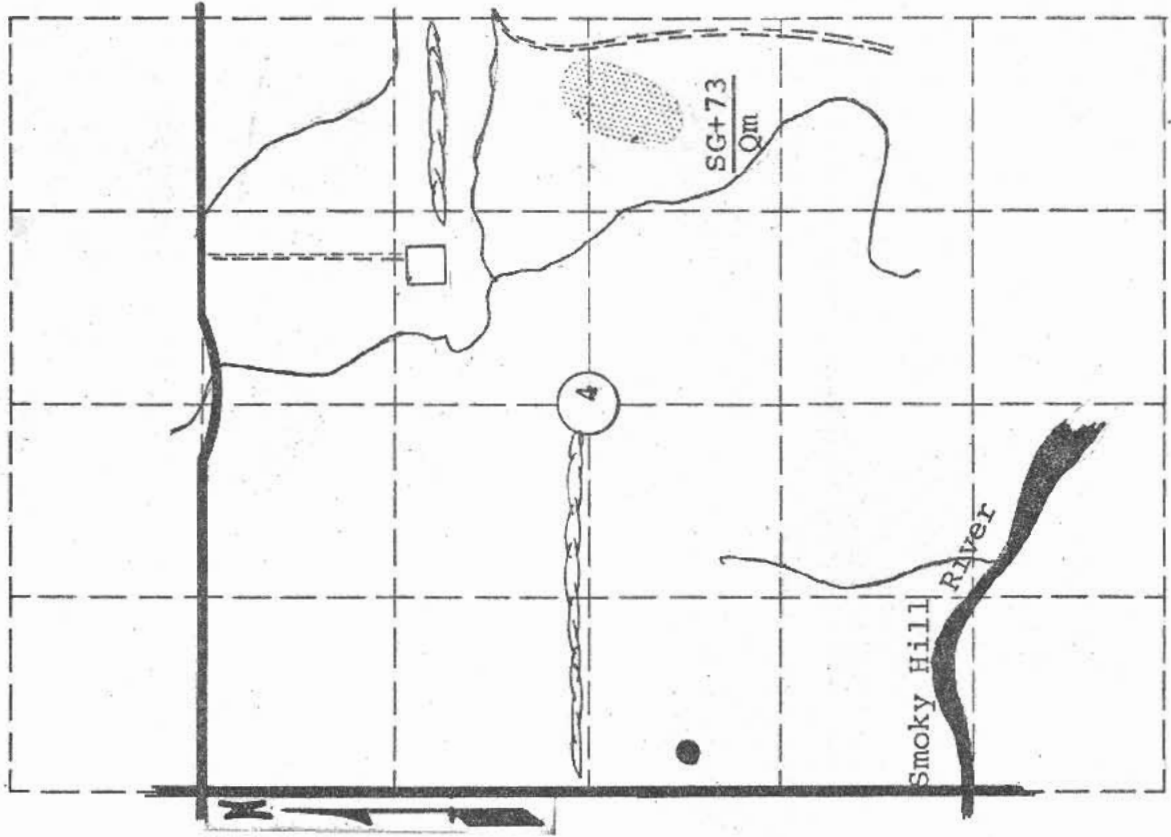
EXPLORATION DATA

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	3/16	1/8	3/32						

CORRELATION DATA

Geological Age Pleistocene  
 Geological Source Meade Formation  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
 Los Angeles Near \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks Anticipated material will be composed of predominantly siliceous sand and gravel with some soft limestone gravel.



Scale: 1" = 1/4 Mile



MATERIAL SURVEY REPORT

SG+74  
 Qm  
 Sand and Gravel  
 NW 1/4 SE 1/4  
 Chester V. Meserve  
 Rte. 2, Ellis, Kansas  
 Date April 1963  
 County Ellis  
 Sec. 5  
 Twp. 15S  
 Range 20W  
 Nature of Deposit: Dry  
 Accessibility: GOOD  
 Status of Site: Prospective site; not sampled

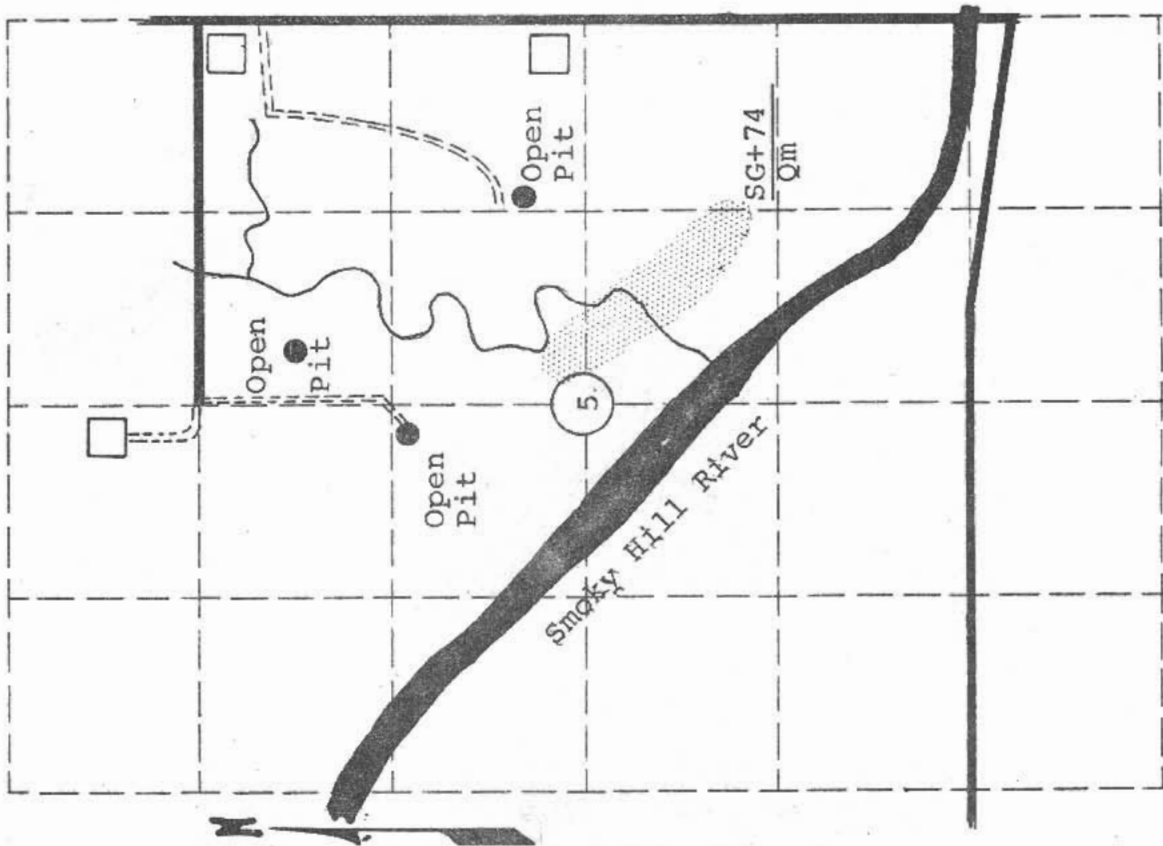
EXPLORATION DATA

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	8	16	30				

CORRELATION DATA

Geological Age: Pleistocene  
 Geological Source: Meade Formation  
 Material Similar To: Material is reported in Site No. SG-121  
 Qm  
 Specific Gravity (Sat.): \_\_\_\_\_ (Dry)  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks: Anticipated material will be composed of

predominantly siliceous sand and gravel and some soft limestone gravel.





MATERIAL SURVEY REPORT

Site No. SG+76 Date April 1963  
Qm  
 Material Sand and Gravel County Ellis  
 Location S½ SW¼ Sec. 24 Twp. 15S Range 16W  
 See Remarks Below  
 Owner \_\_\_\_\_ address \_\_\_\_\_  
 Nature of Deposit Dry Accessibility Poor  
 Status of Site Prospective site; not sampled

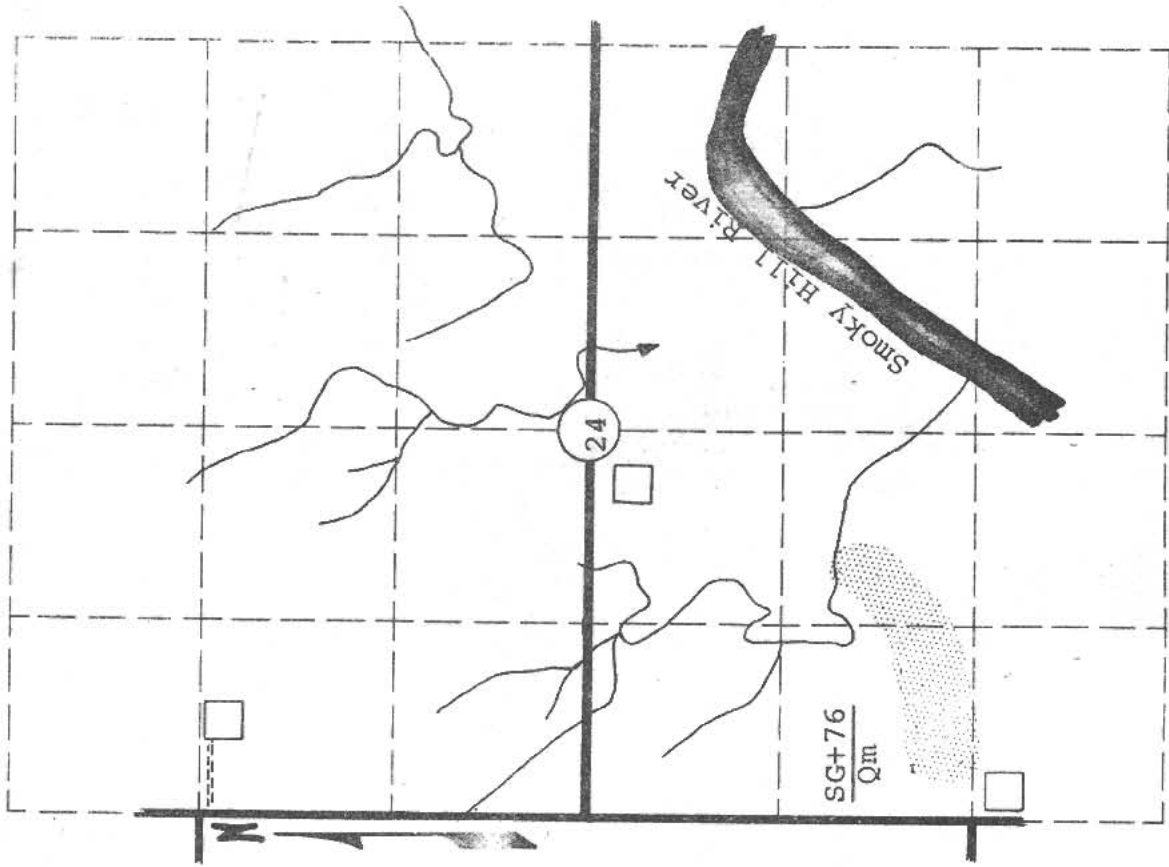
EXPLORATION DATA

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 Pleistocene  
 Geological Source Meade Formation  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks SW¼ SW¼ Daisy Gorham Aley, Unknown

SE¼ SW¼ Ward W. Turon, Gorham, Kansas  
 Anticipated material will be composed of predominantly siliceous sand and gravel with some soft limestone gravel.



Scale: 1" = ¼ Mile







MATERIAL SURVEY REPORT

Site No. SG+79 Date April 1963  
Qm  
 Material Sand and Gravel County Ellis  
 Location SW 1/4 Sec. 23 Twp. 15S Range 16W  
Sarah Gorham Foster Estate Gorham, Kansas  
name address  
 Nature of Deposit Dry Accessibility Fair  
 Status of Site Prospective site; not sampled

See Remarks Below

EXPLORATION DATA

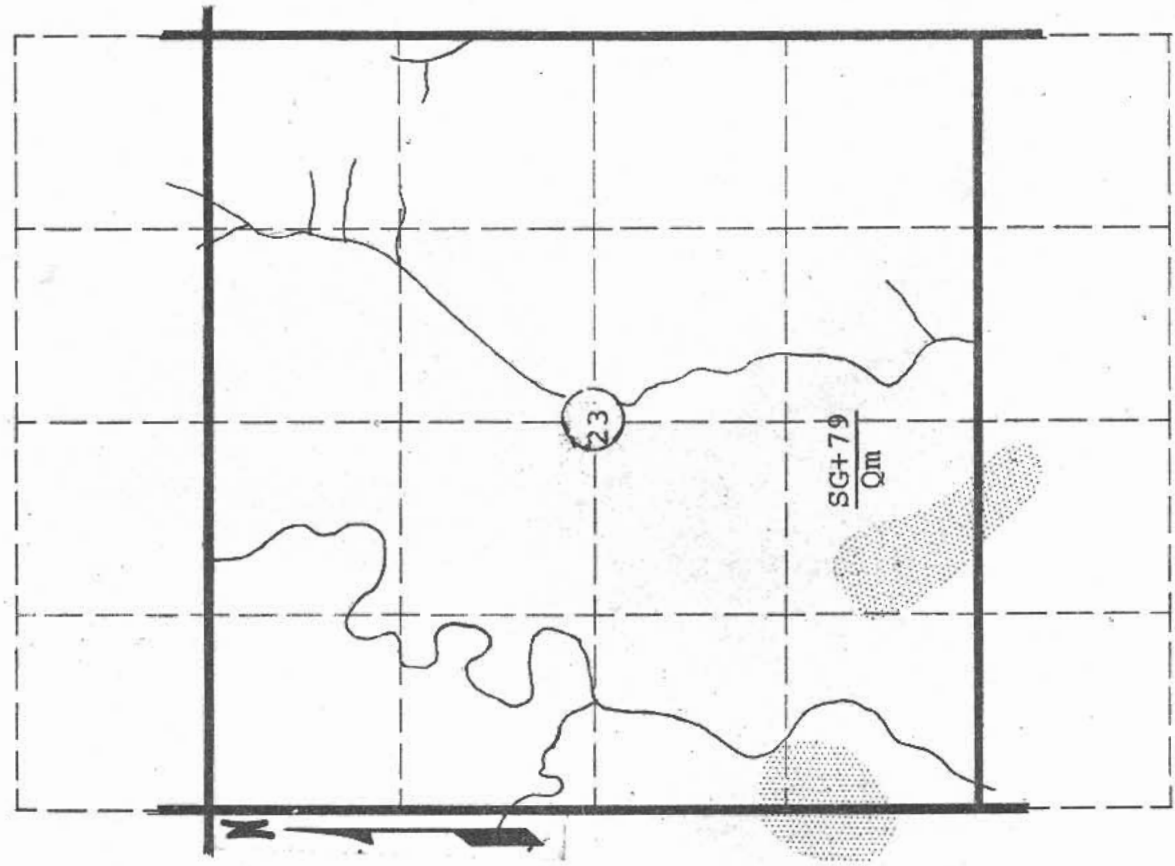
Test Hole	Material at Bottom of Hole	Depth of over-Burden	Depth of Material	Percent Retained							Wash 200	G.F.	L.L.	P.L.	
				1 1/2	3/4	3/8	1/4	8	16	30					50

CORRELATION DATA

Geological Age Pleistocene  
 Geological Source Meade Formation  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (dry)  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks Tenant is the Gorham State Bank, Gorham, Kansas

Material will be found in the "noses" of the old valley wall. Anticipate over a million cubic yards of siliceous sand and gravel.



1" = 1/4 Mile



MATERIAL SURVEY REPORT

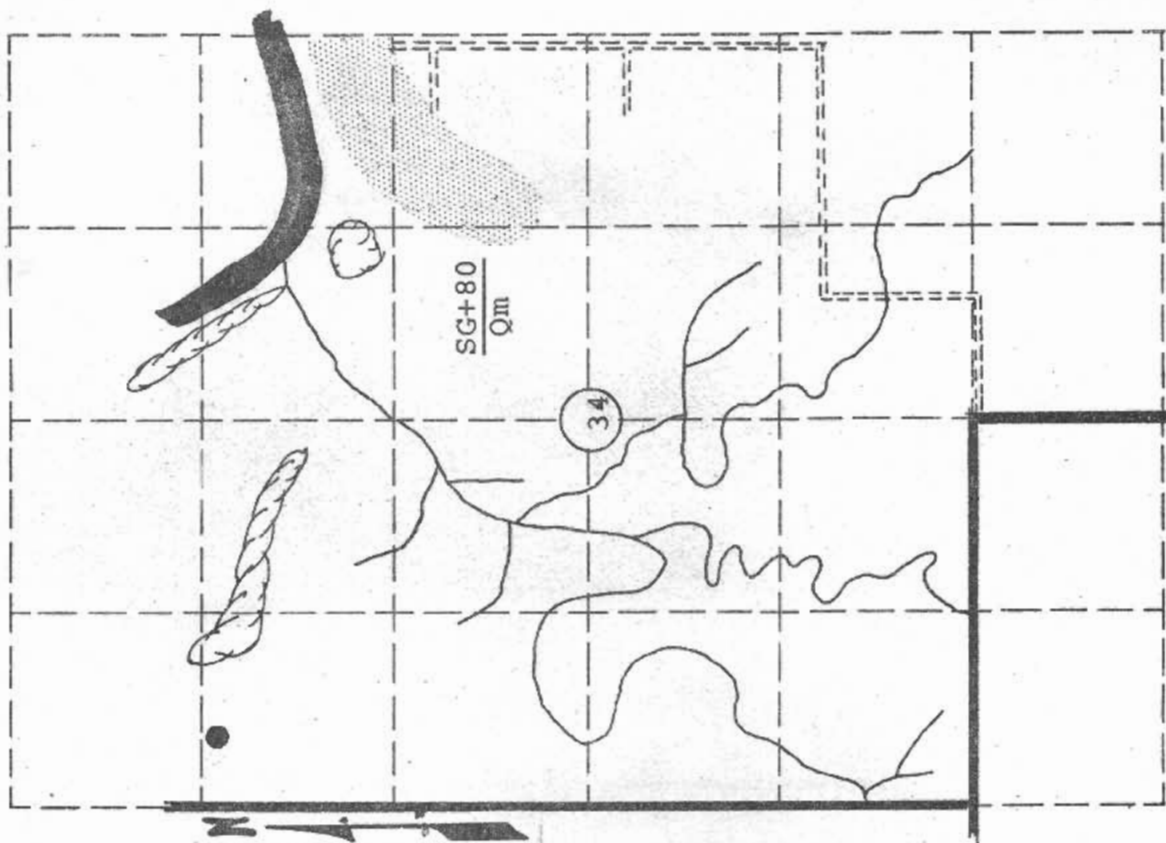
Site No. SG+80  
Qm  
 Date April 1963  
 Material Sand and Gravel County Ellis  
 Location NE 1/4 Sec. 34 Twp. 15S Range 16W  
 Owner Sarah Gorham Foster Gorham, Kansas  
name address  
 Nature of Deposit Dry Accessibility Fair  
 Status of Site Prospective site; not sampled

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pleistocene  
 Geological Source Meade Formation  
 Material Similar To Material reported in site SG+103  
Qm  
 Specific Gravity (Sat.) (Dry)  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Mt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks \_\_\_\_\_



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

SG+81  
Qm

Site No. \_\_\_\_\_ Date April 1963  
 Material Sand and Gravel County Ellis  
 Location SW 1/4 Sec. 34 Twp. 15S Range 16S  
 Owner Gertrude L. Beeching 502 First Nat'l Bank, Hutchinson  
 address Kansas  
 Nature of Deposit Dry Accessibility Fair  
 Status of Site Prospective site; not sampled

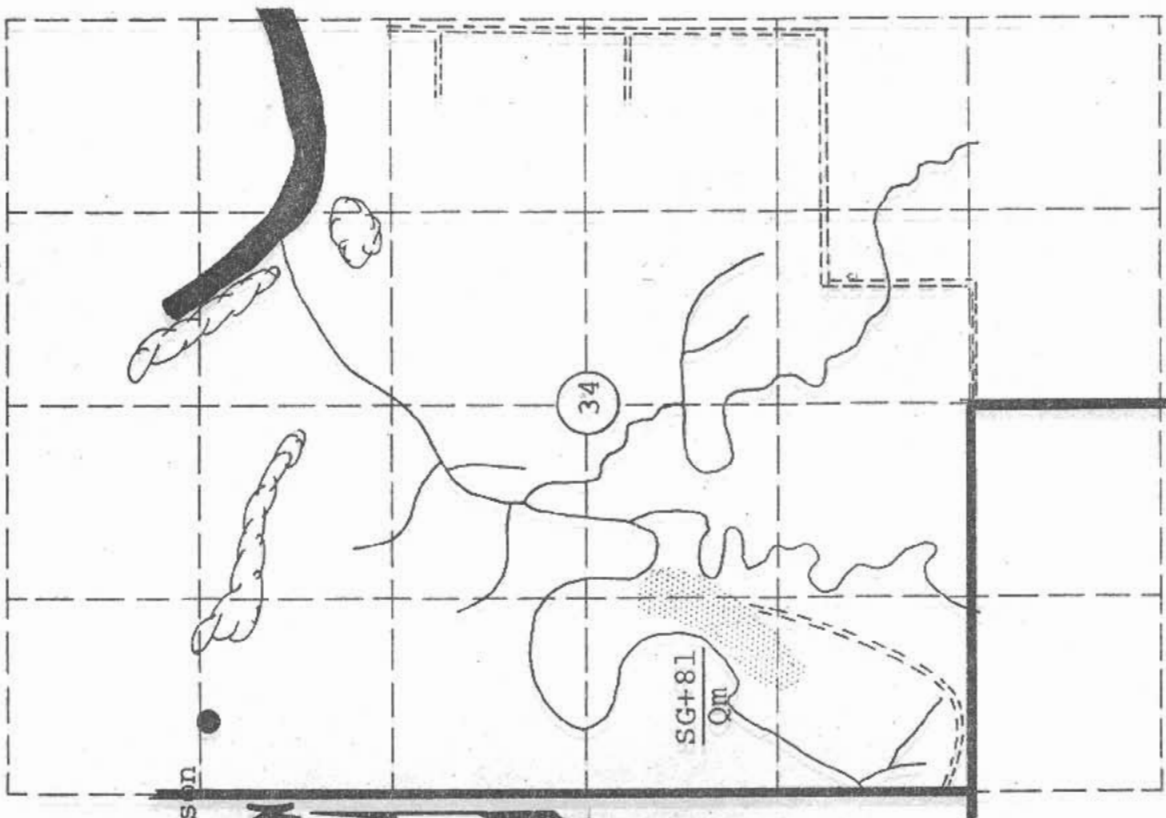
See Remarks below

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 Pleistocene  
 Geological Source Meade formation  
 Material Similar To Material reported in site SG+103  
 Qm  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Mt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks Tenant is C. E. Chalfant, 502 First Nat'l Bank,  
Hutchinson, Kansas



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

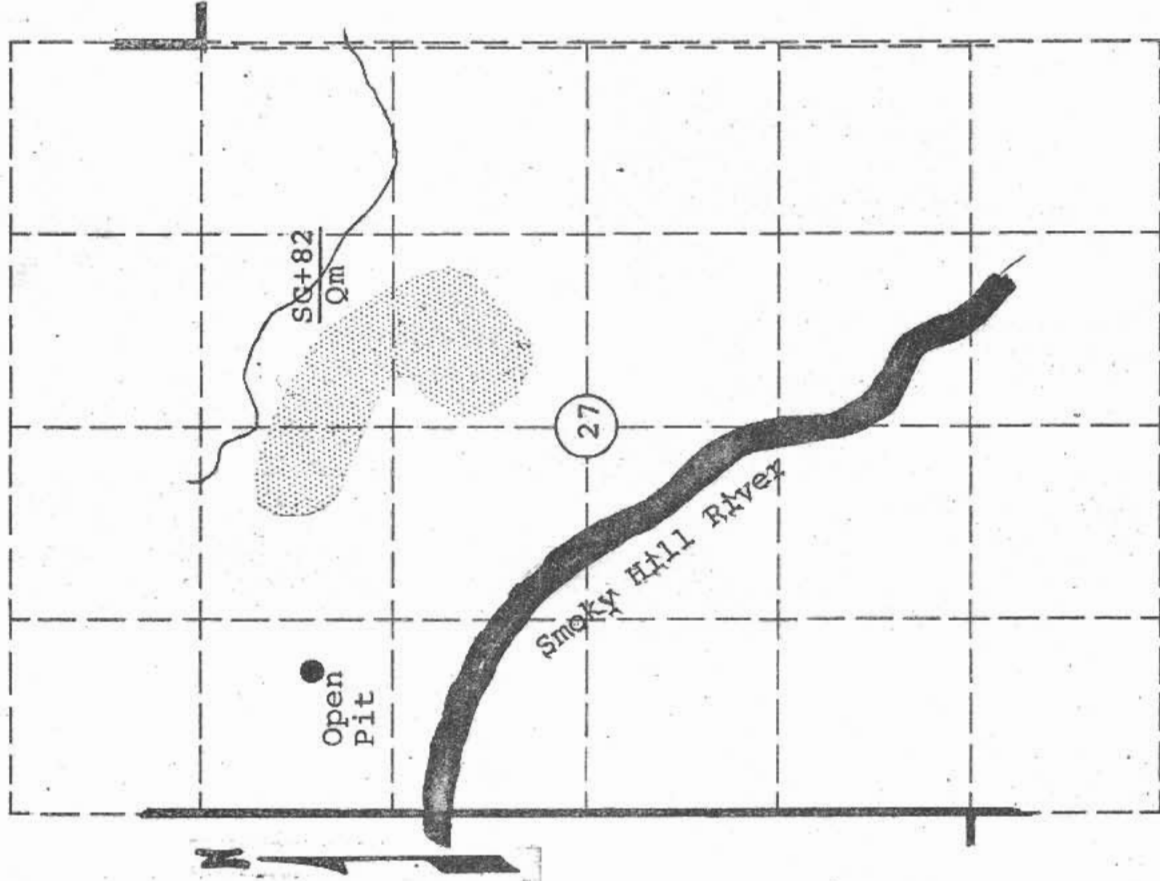
Site No. SG+82  
Qm  
 Date April 1963  
 Material Sand and Gravel County Ellis  
 Location NW 1/4 NE 1/4 Sec. 27 Twp. 15S Range 16W  
 Owner Sarah Foster Gorham, Kansas  
 Nature of Deposit DRY Accessability POOR  
 Status of Site Prospective site; not sampled

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pleistocene  
 Geological Source Meade Formation  
 Material Similar To Material reported in site SG+105  
Qm  
 Specific Gravity (Sat.) (Dry)  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Mt. Cu-Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks \_\_\_\_\_



Scale: 1" = 1/4 Mile



MATERIAL-SURVEY REPORT

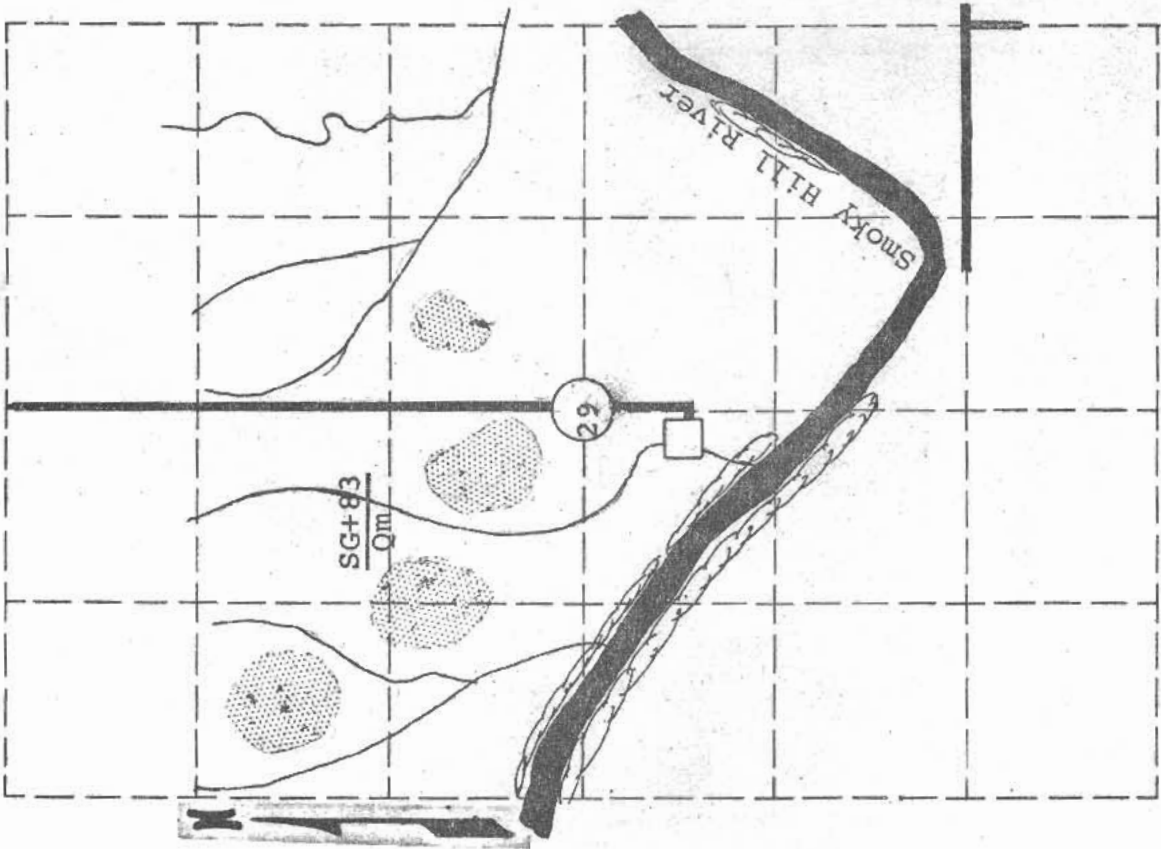
SG+83  
Qm  
 Site No. \_\_\_\_\_ Date April 1963  
 Material Sand and Gravel County Ellis  
 Location SE 1/4 NW 1/4 Sec. 29 Twp. 15S Range 16W  
 Owner Norma Jean Miller Kruger, et al Victoria, Kansas  
 Nature of Deposit Dry Accessibility Good  
 Status of Site Prospective site; not sampled

EXPLORATION DATA

Test Hole	Material at bottom of Hole	Depth or cover-burden	Depth of Material	Percent Retained					Wash 200	G.F.	L.L.	P.L.
				1/2	3/4	3/8	1/4	1/8				

CORRELATION DATA

Geological Age Pleistocene  
 Geological Source Meade Formation  
 Material Similar To Material reported in site SG+105  
Qm  
 Specific Gravity (sat.) \_\_\_\_\_ (dry) \_\_\_\_\_  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Mt. Cu.Ff. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks \_\_\_\_\_



Scale: 1" = 1/4 Mile



MATERIAL SURVEY REPORT

Site No. SG+85  
Om Date April 1963  
 Material Sand and Gravel County Ellis  
 Location S $\frac{1}{2}$  N $\frac{1}{2}$  Sec. 25 Twp. 15S Range 17W  
 Owner See Remarks Below  
 Nature of Deposit Dry Accessibility Fair  
 Status of Site Prospective site; not sampled

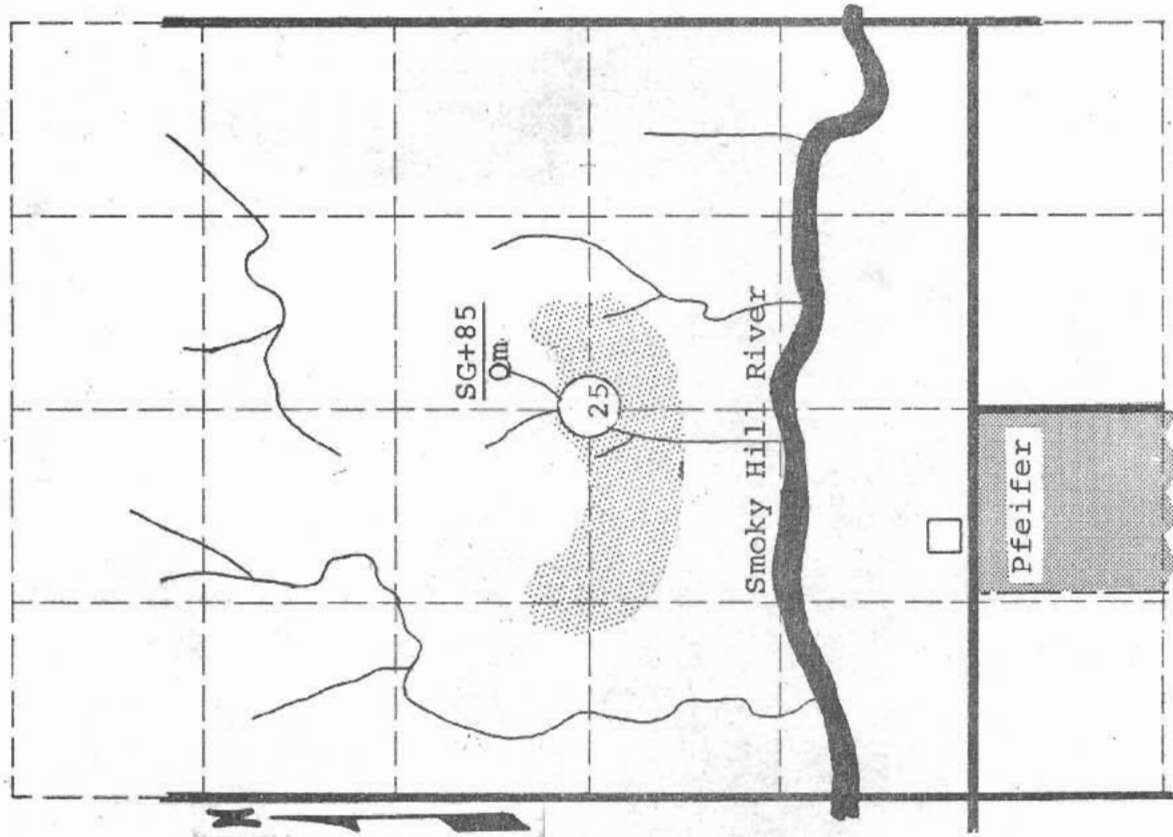
EXPLORATION DATA

Test Note	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 Pleistocene  
 Geological Source Meade Formation  
 Material Similar To Material reported in site Qm

Specific Gravity (Sat.) \_\_\_\_\_ (dry)  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Mt. Cu. Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks Joe G. Urban, NW $\frac{1}{4}$  SE $\frac{1}{4}$ , Pfeifer, Kansas  
Anna M. Urban, NE $\frac{1}{4}$  SE $\frac{1}{4}$ , Pfeifer, Kansas  
George Meder, NW $\frac{1}{4}$  SW $\frac{1}{4}$ , Pfeifer, Kansas  
B. L. Coulson, NE $\frac{1}{4}$  SW $\frac{1}{4}$ , Unknown



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

MATERIAL SURVEY REPORT

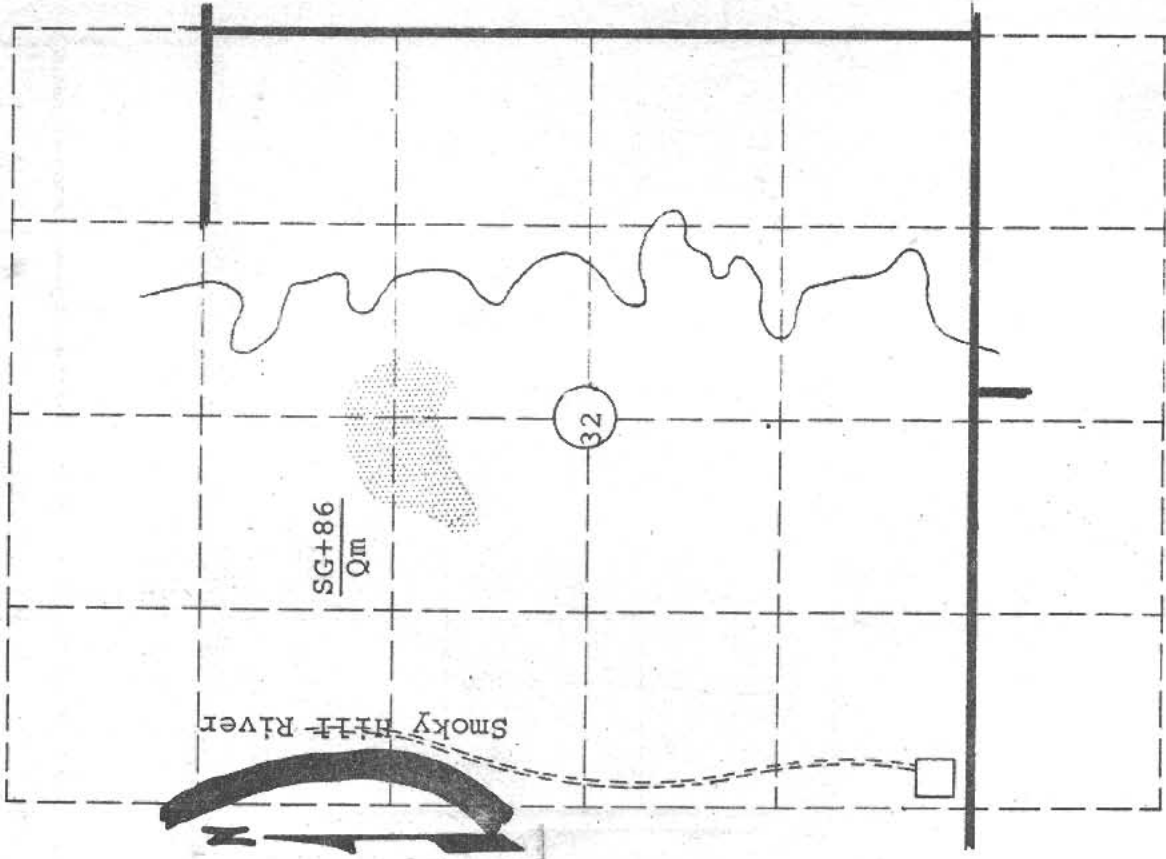
Site No. SG+86  
Qm  
 Date April 1963  
 Material Sand and Gravel County Ellis  
 Location SE 1/4 NW 1/4 Sec. 32 Twp. 15S Range 16W  
 Owner Cooperative Refinery Assoc., Phillipsburg, Kansas  
 name address  
 Nature of Deposit Dry Accessibility Fair  
 Status of Site Prospective site; not sampled

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 Pleistocene  
 Geological Source Meade Formation  
 Material Similar To Material reported in site SG-136  
Qm  
 Specific Gravity (Set.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks \_\_\_\_\_



Scale: 1" = 1/4 Mile





MATERIAL SURVEY REPORT

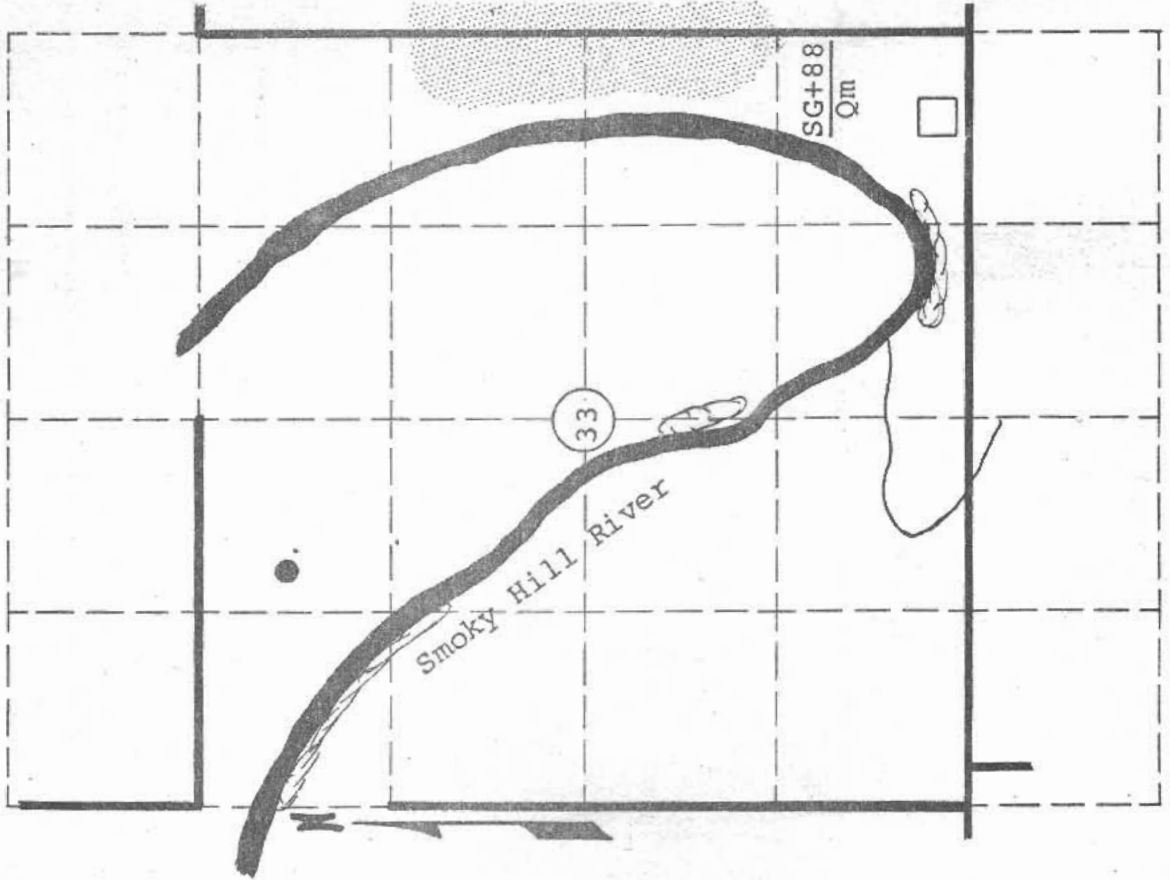
Site No. SG+88  
Qm  
 Date April 1963  
 Material Sand and Gravel county Ellis  
 Location NE 1/4 SE 1/4 Sec. 33 Twp. 15S Range 17W  
 Owner Anthony Jacobs Pfeifer, Kansas  
 Nature of Deposit Dry Accessibility Good  
 Status of Site Prospective site; not sampled

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	1 1/4	1 1/2	2	3						

CORRELATION DATA

Geological Age Pleistocene  
 Geological Source Meade Formation  
 Material Similar To Material reported in site SG+137  
Qm  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu-Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks Heavy overburden present



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

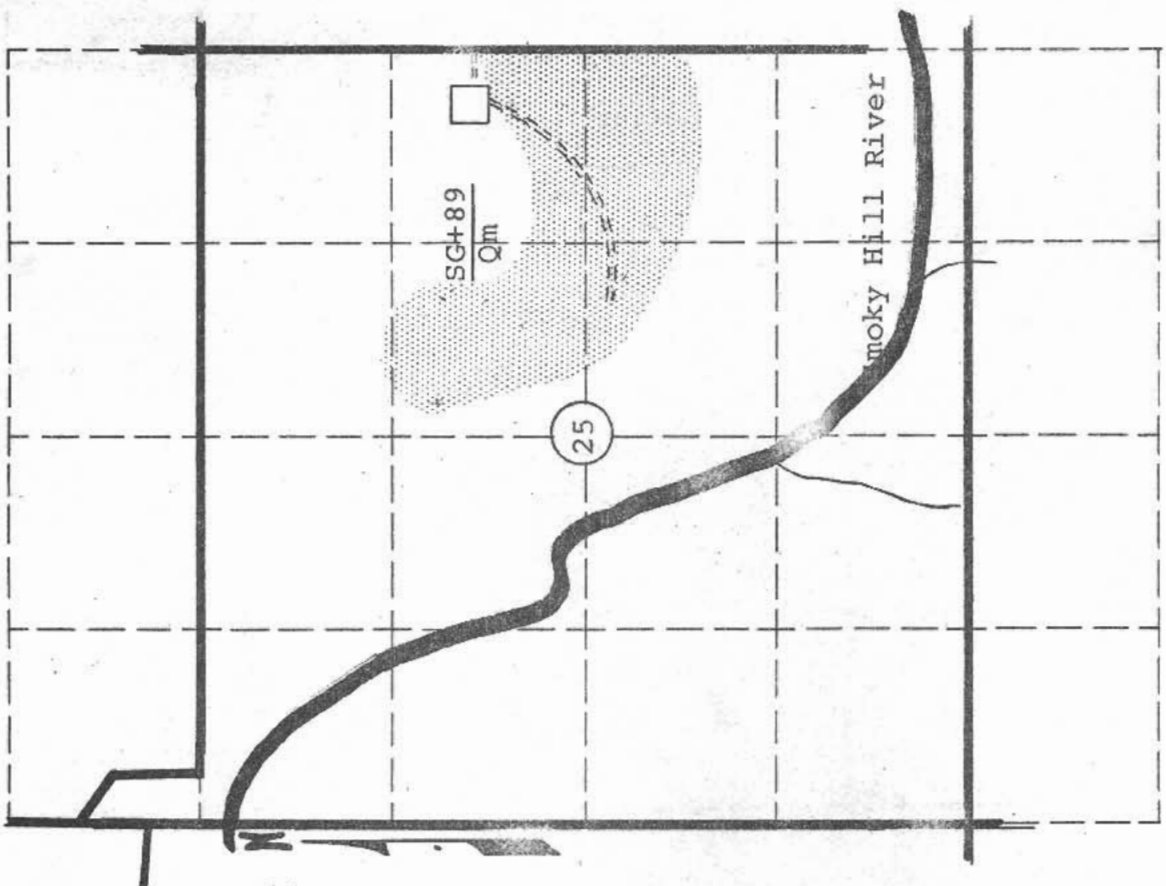
Site No. SG+89  
Qm  
 Date April 1963  
 Material Sand and Gravel County Ellis  
 Location NE 1/4 SE 1/4 Sec. 25 Twp. 15S Range 19W  
 Owner Marvin Bieker Schoenchen, Kansas  
 name address  
 Nature of Deposit Dry Accessibility Fair  
 Status of Site Prospective site; not sampled

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	2	4	8	16					30	50	100

CORRELATION DATA

Geological Age Pleistocene  
 Geological Source Meade Formation  
 Material Similar To Material reported in site SG+139  
Qm  
 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+91 Date April 1963  
Qm  
 Material Sand and Gravel County Ellis  
 Location NE 1/4 NE 1/4 Sec. 8 Twp. 15S Range 20W  
 Owner Chester V. Meserve address Ellis, Kansas  
 Nature of Deposit Dry Accessibility Fair  
 Status of Site Prosepctive site; not sampled

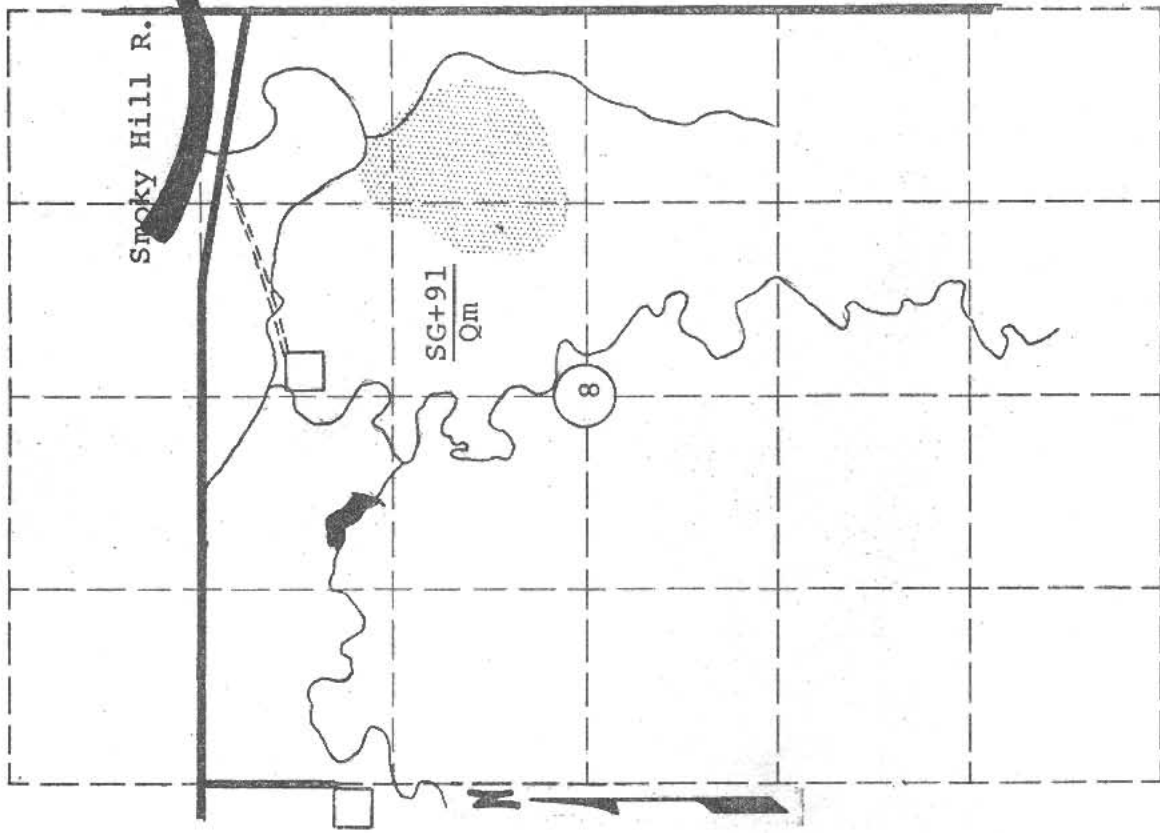
EXPLORATION DATA

Test Note	Material at Bottom of Note	Depth or 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 Meade Formation  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (dry) \_\_\_\_\_  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks Anticipated material will be composed of pre-dominantly siliceous sand and gravel and soft limestone gravel.



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

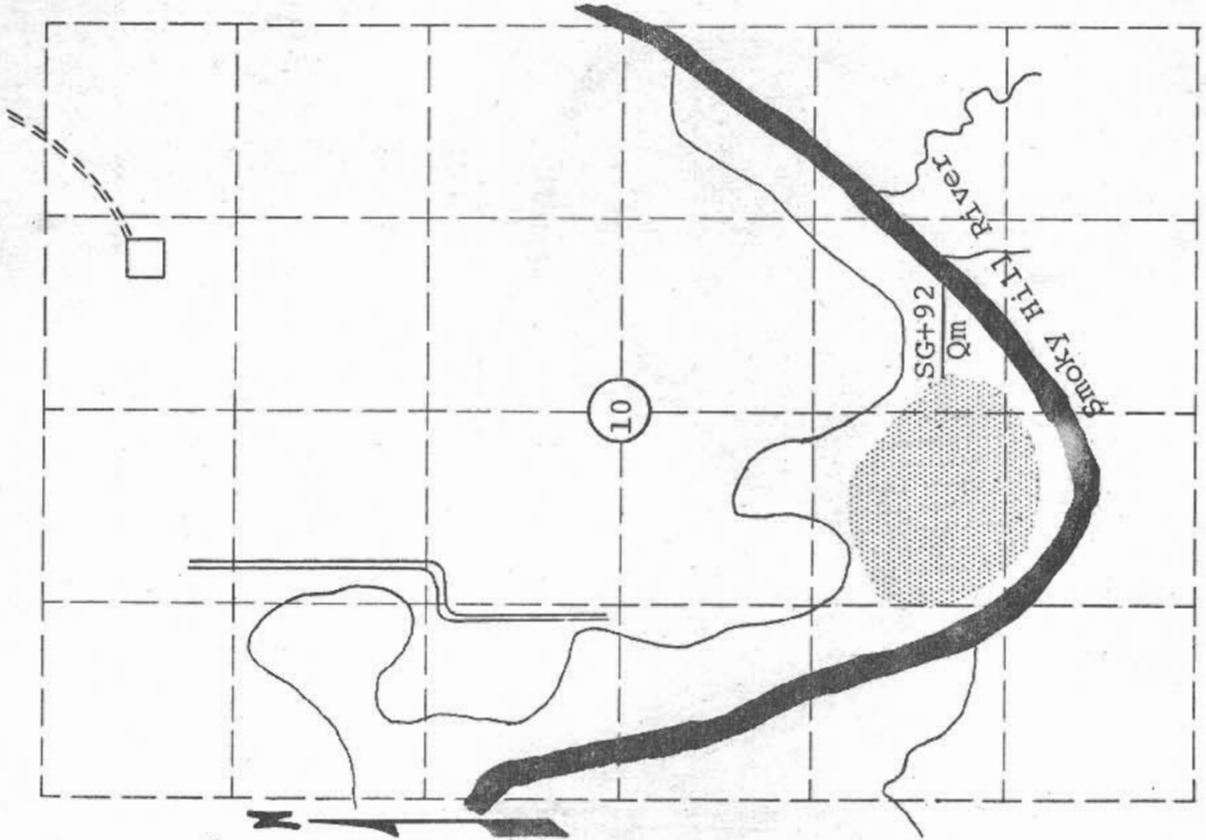
Site No. SG+92 Date April 1963  
Qm  
 Material Sand and Gravel County Ellis  
 Location SE 1/4 SW 1/4 Sec. 10 Twp. 15S Range 20W  
 Owner William D. Phillip, Jr. Munjor Rte., Hays, Kansas  
 name address  
 Nature of Deposit Dry Accessibility Poor  
 Status of Site Prospective site; not sampled

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	15	30				

CORRELATION DATA

Geological Age Pleistocene  
 Geological Source Meade Formation  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Set.) \_\_\_\_\_ (Dry)  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Mt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks Anticipated material will be composed of pre-dominantly siliceous sand and gravel and some lime-stone gravel.



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

Site No. SG+93  
Qal  
 Material Sand and Gravel  
 Location NE 1/4 Sec. 31 Twp. 15S Range 16W  
 Owner William Jacobs name Pfeifer, Kansas address  
 Nature of Deposit Dry Accessibility POOR  
 Status of Site Prospective site; not sampled

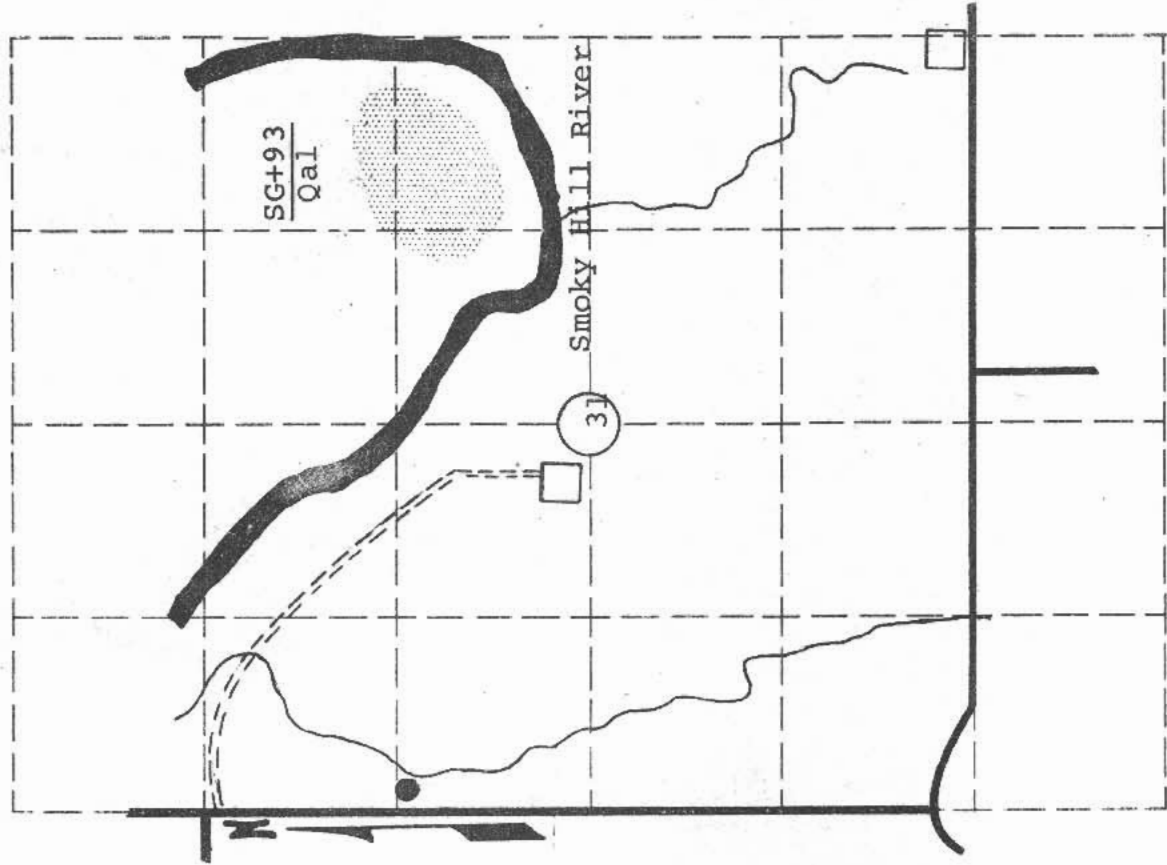
EXPLORATION DATA

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	1/8	1/16	1/32				

CORRELATION DATA

Geological Age Recent  
 Geological Source Alluvium  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry)  
 Los Angeles Near \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Mt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks Anticipated material will be composed of pre-dominantly siliceous sand and small gravel with some limestone gravel.



Scale: 1" = 1/4 Mile





MATERIAL SURVEY REPORT

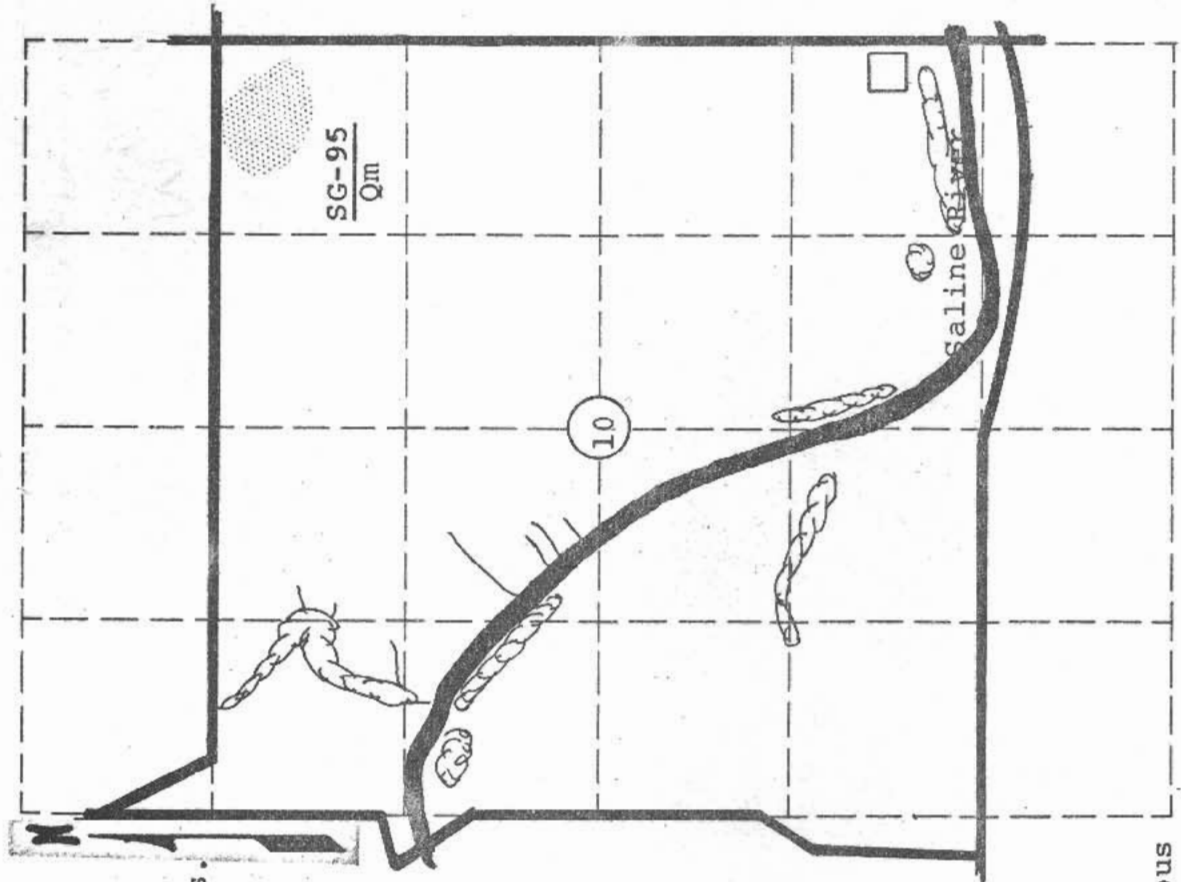
Site No. SG-95  
Qm Date April 1963  
 Material Sand and Gravel County Ellis  
 Location NE 1/4 Sec. 10 Twp. 11S Range 17W  
 Owner Herbert P. Simpson, N 1/2 Rte. 2, Plainville, Kans.  
name address  
 Nature of Deposit Dry Accessibility Good  
 Status of Site Prospective site; not sampled

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	16	30	50	100							

CORRELATION DATA

Geological Age Pleistocene  
 Geological Source Meade Formation  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Set.) \_\_\_\_\_ (Dry)  
 Los Angeles Near \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu. ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks Anticipated material will be composed of siliceous sand and soft limestone gravel.



Scale: 1" = 1/4 Mile



MATERIAL SURVEY REPORT

SG+97  
Qa1  
 Site No. \_\_\_\_\_ Date April 1963  
 Material Sand and Gravel County Ellis  
 Location SW 1/4 NW 1/4 Sec. 33 Twp. 15S Range 17W  
 Owner Elmer H. Schlegel R.R., LaCrosse, Kansas  
 name address  
 Nature of Deposit Wet Accessibility Good  
 Status of Site Prospective site; not sampled

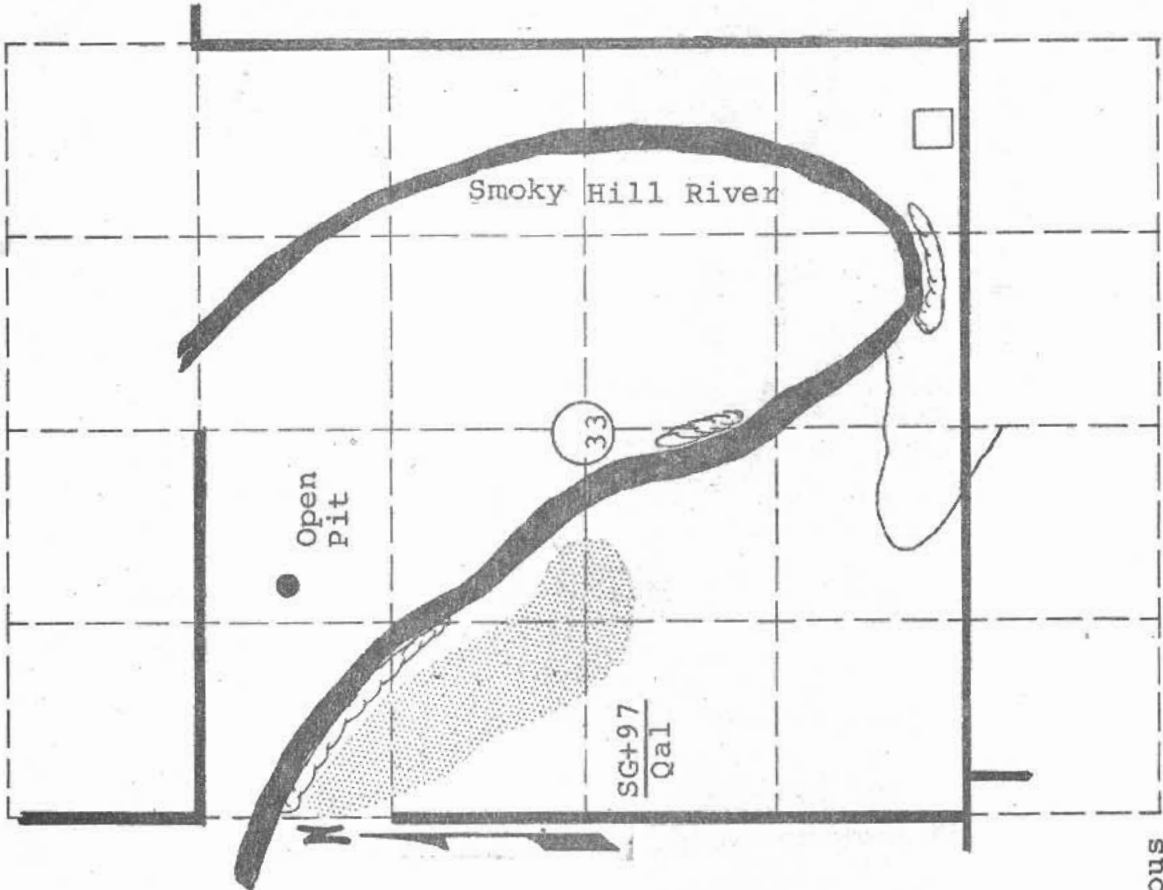
EXPLORATION DATA

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	2	4	8	16					30	50

CORRELATION DATA

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

Remarks Anticipated material will be composed of siliceous sand and gravel and some limestone gravel.



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

Site No. SG+98  
Qal  
 Material Sand and Gravel  
 Location NE 1/4 NE 1/4 Sec. 26 Twp. 15S Range 19W  
 Owner Paul Werth address McCracken, Kansas  
 Nature of Deposit Wet Accessibility Good  
 Status of Site Prospective site; not sampled

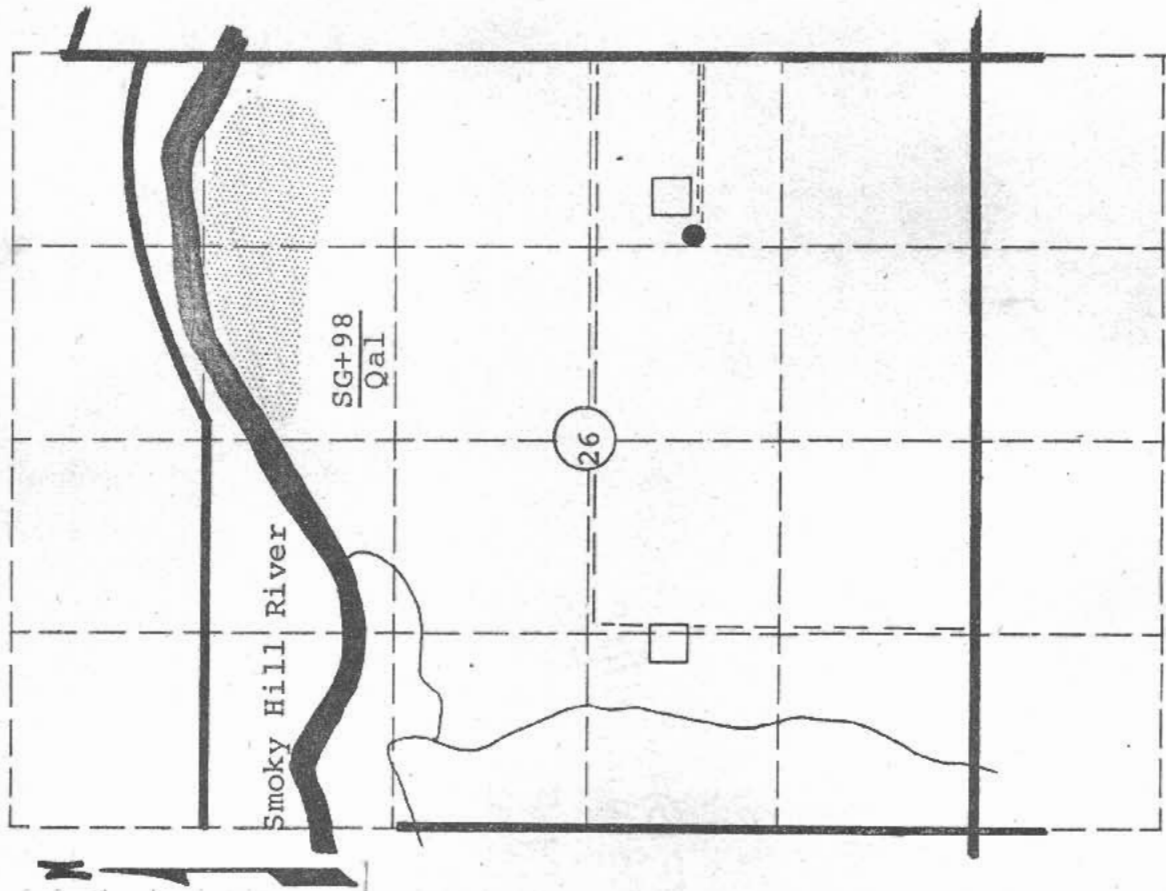
EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth 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 Recent  
 Geological Source Alluvium  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
 Los Angeles Near \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks Site selected for HPS experimental sampling

Operation. Test results will be filed with the Third Division Materials Engineer, Norton, Kansas



Scale: 1" = 1/4 Mile



MATERIAL SURVEY REPORT

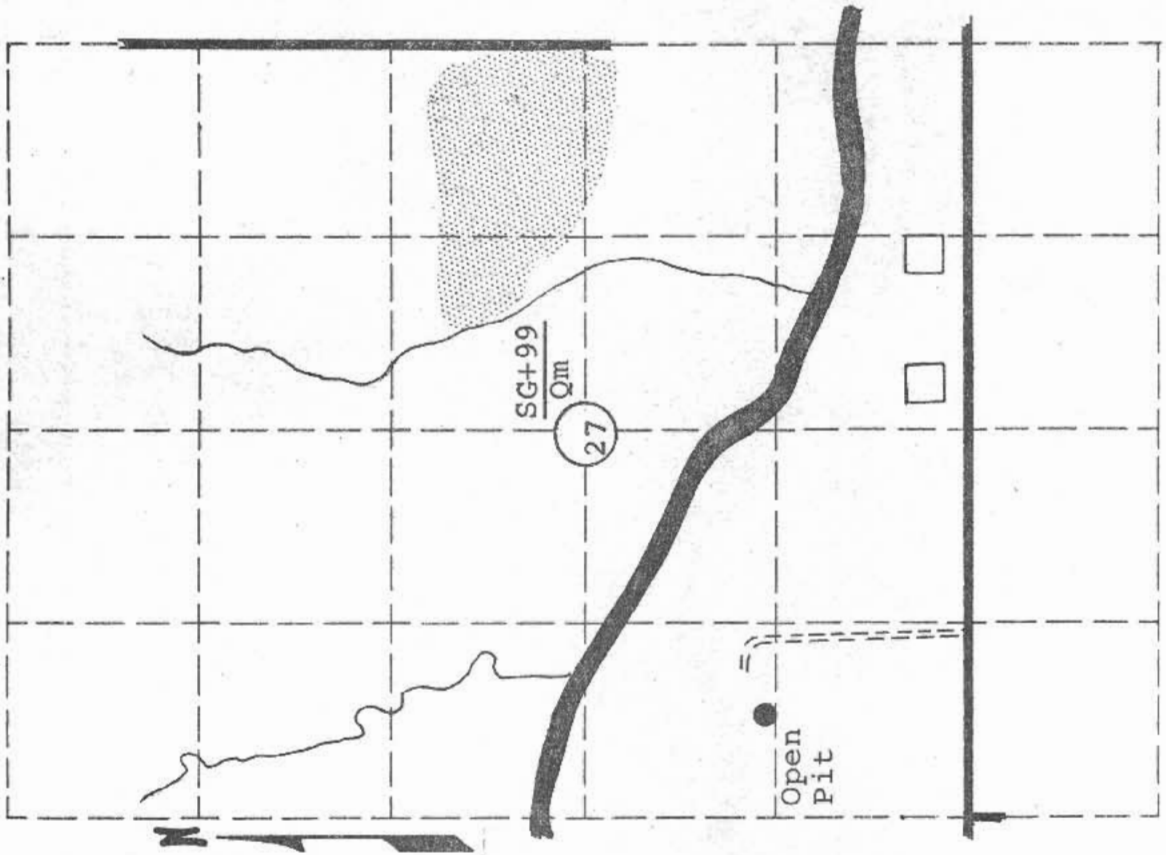
Site No. SG+99  
Qm  
 Date April 1963  
 Material Sand and Gravel County Ellis  
 Location SE 1/4 NE 1/4 Sec. 27 Twp. 15S Range 17W  
 Owner Pete Briet East 12th. Hays, Kansas  
name address  
 Nature of Deposit Dry Accessibility Fair  
 Status of Site Prospective site; not sampled

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 Pleistocene  
 Geological Source Meade Formation  
 Material Similar to Material reported in site SG-108  
Qm  
 Specific Gravity (Sat.) (Dry)  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Mt. Cu.ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks Site selected as an alternate for HPS research operation.



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

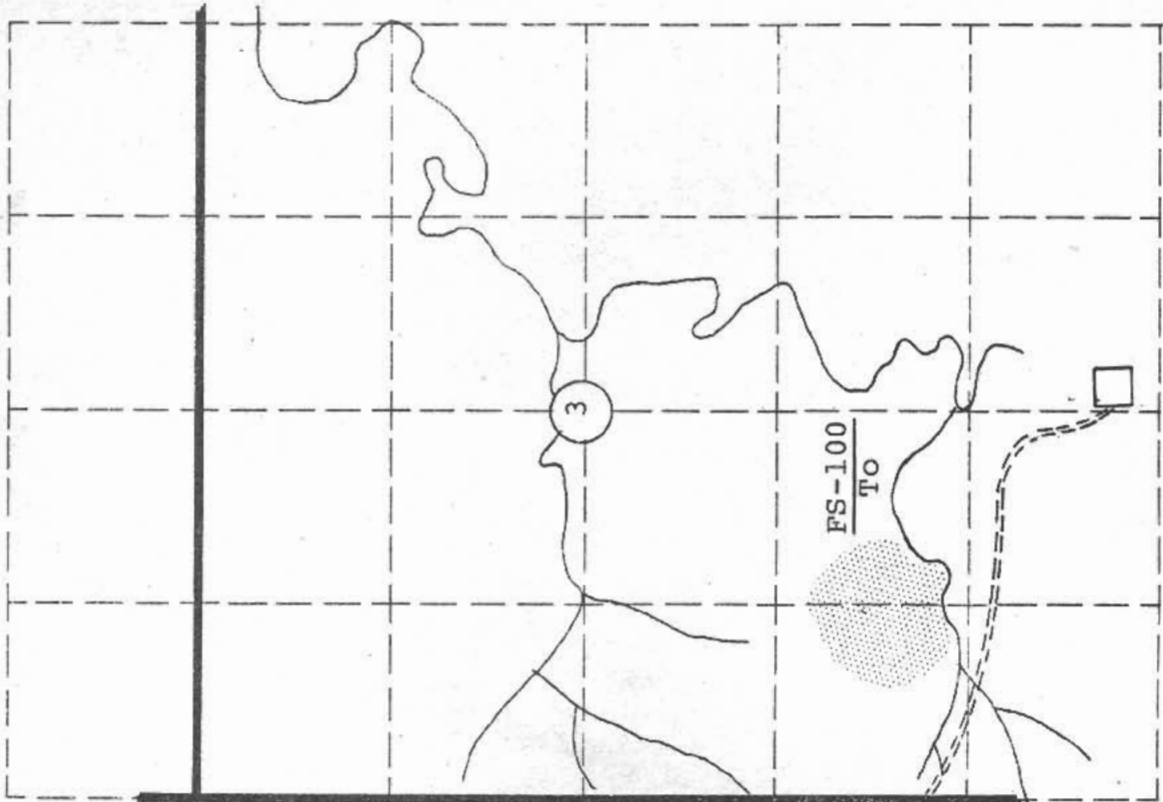
Site No. FS-100 TO \_\_\_\_\_ Date April 1963  
 Material Sand and Gravel County Ellis  
 Location SE 1/4 SW 1/4 Sec. 3 Twp. 12S Range 20W  
 Owner Mrs. Fred Hamburg name Ellis, Kansas address  
 Nature of Deposit Dry Accessibility Good  
 Status of Site Prospective site; not sampled

EXPLORATION DATA

Test Note	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				

CORRELATION DATA

Geological Age Pliocene  
 Geological Source Ogallala Formation  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
 Los Angeles Near \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Mt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks \_\_\_\_\_



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

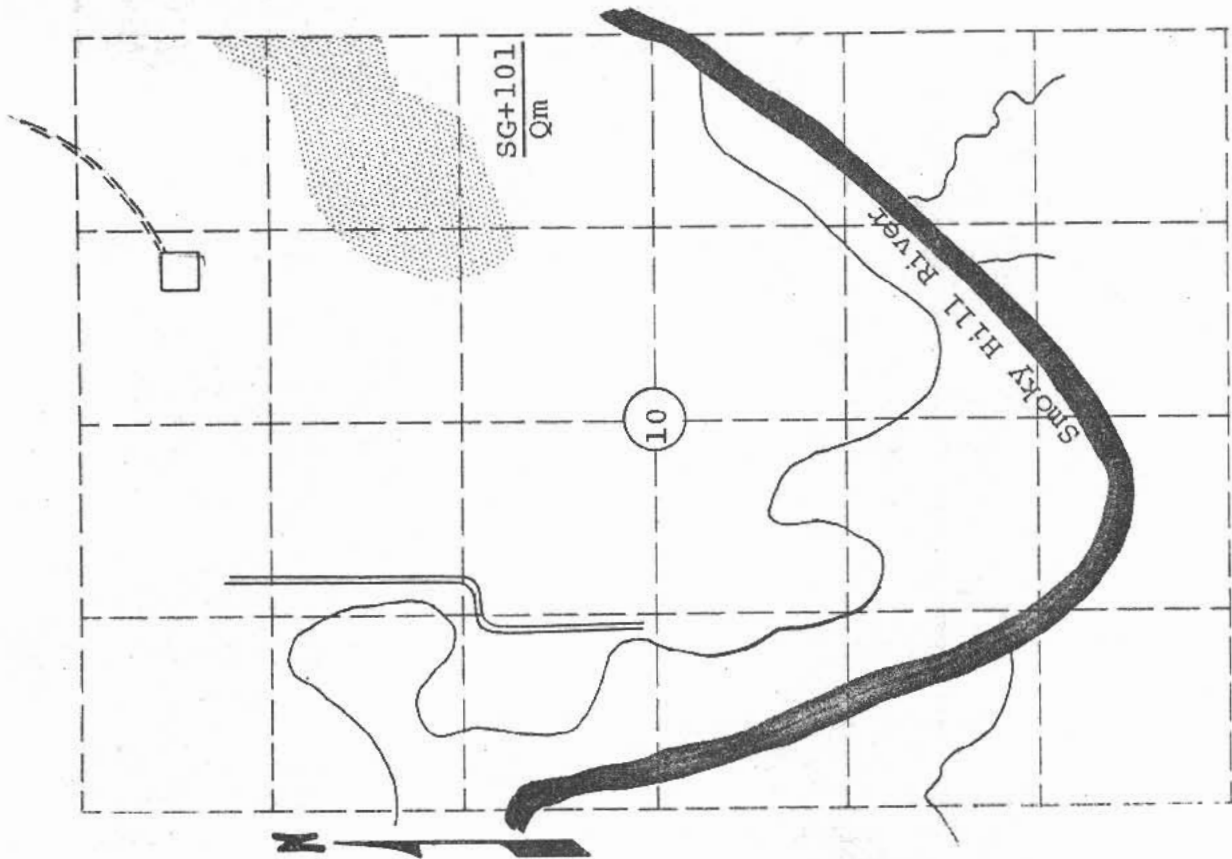
Site No. SG+101  
Qm  
 Date April 1963  
 Material Sand and Gravel County Ellis  
 Location NE $\frac{1}{4}$  Sec. 10 Twp. 15S Range 20W  
 Owner See Below name \_\_\_\_\_ address \_\_\_\_\_  
 Nature of Deposit Dry Accessibility Good  
 Status of Site Prospective site; not sampled

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	5/8	3/8	5/16	3/16	1/8					

CORRELATION DATA

Geological Age Pleistocene  
 Geological Source Meade Formation  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Set.) \_\_\_\_\_ (dry)  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks E $\frac{1}{2}$  E $\frac{1}{2}$ , W. C. Wann, 2201 W. 49th Terr. Shawnee Mission, Kansas  
W $\frac{1}{2}$  E $\frac{1}{2}$ , W. D. Phillip, Jr., Munjor Rte. Hays, Kansas



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

FS+102  
Qal

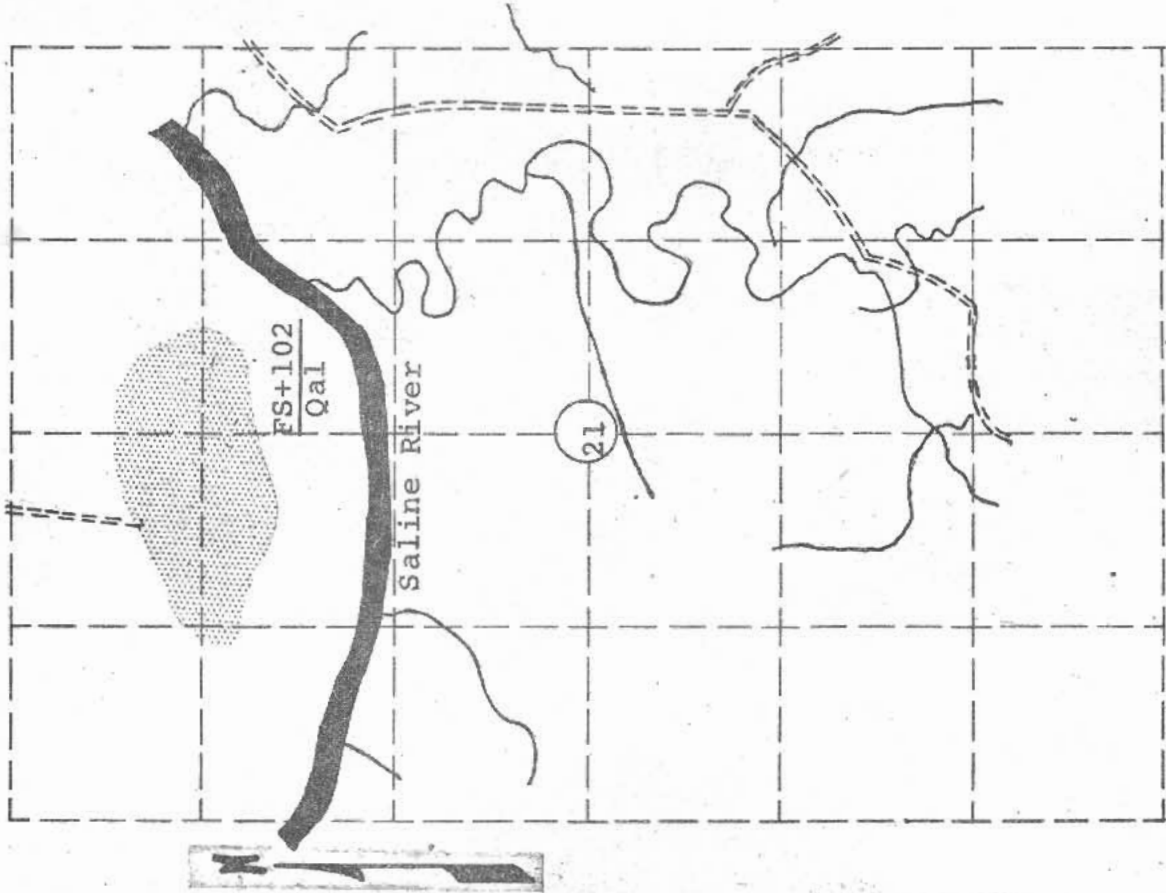
Site No. \_\_\_\_\_ Date April 1963  
 Material Fine Sand County Ellis  
 Location NE 1/4 NW 1/4 Sec. 21 Twp. 11S Range 17W  
 Owner Hadley Memorial Hospital Hays, Kansas  
 Nature of Deposit Wet Accessibility Fair  
 Status of Site Prospective site; not sampled

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	1/4	3/16				

CORRELATION DATA

Geological Age Recent  
 Geological Source Alluvium  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (sat.) \_\_\_\_\_ (dry) \_\_\_\_\_  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Mt. Cu. Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks Anticipated material is fine sand and soft limestone pebbles. Approach to site will have to be made from the north.



Scale: 1" = 1/4 Mile