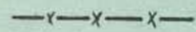
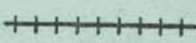
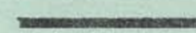
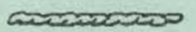
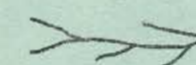
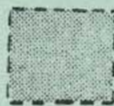


APPENDIX II

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

LEGEND

	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

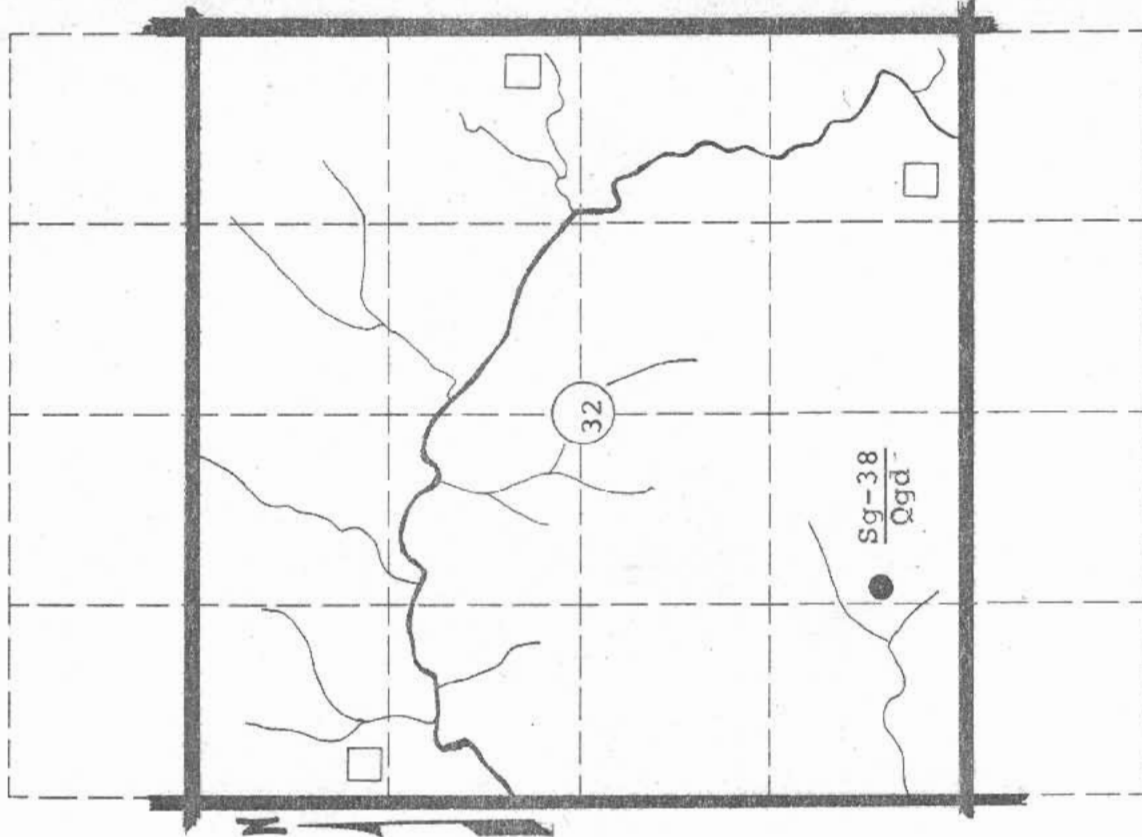
Site No. Sg-38 Date January 1966
Qgd
 Material Sand and Gravel County Brown
 Location SE $\frac{1}{4}$, SW $\frac{1}{4}$ Sec. 32 Twp. 1S Range 17E
 Owner Galen P. Long et ux. R. R. 1, Hiawatha, Kansas
 Nature of Deposit Dry Accessibility Fair
 Status of Site Open site; sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of over-burden	Depth of Material	Percent Retained								Wash 200	G.F.	L.L.	P.I.	
				1 1/2	3/4	3/8	4	8	16	30	50					100
				0	1	6	14	22	30	45	92	95	4	3.05		

CORRELATION DATA

Geological Age Quaternary
 Geological Source Glacial Drift
 Material Similar to Material reported on S.H.C. form 619, No. 7-27 and Lab. number 19366
 Specific Gravity (sat.) 2.61 (Dry)
 Los Angeles Wear 27.3
 Absorption 1.01 Soundness 0.97
 Wt. Cu. Ft. 107.3 Str. Ratio 1 day-1.02, 3 day-0.98
 Remarks Composite sample, 1 test hole



Scale: 1" = 1/4 mile

MATERIAL SURVEY REPORT

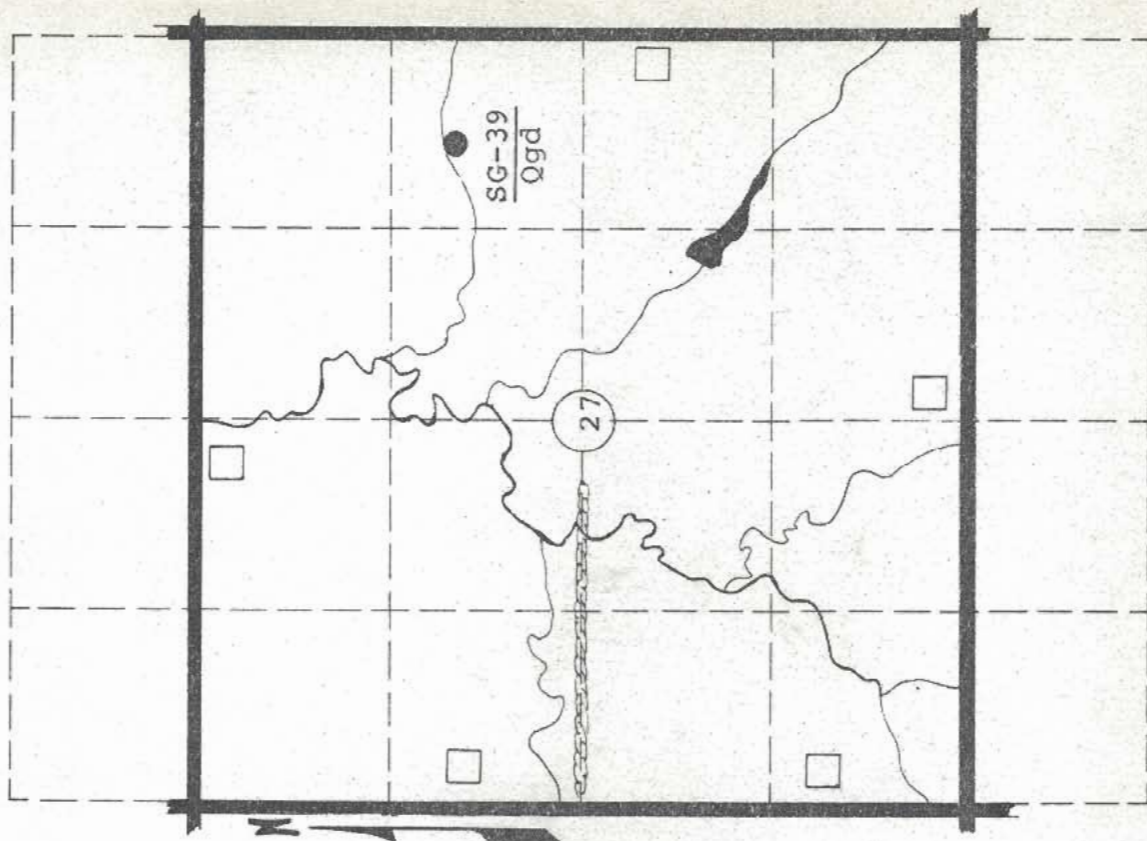
Site No. SG-39
Qgd
 Material Sand and Gravel
 Location SE 1/4 NE 1/4 Sec. 27 Twp. 1S Range 17E
 Owner Harold D. Justice R.F.D. 2, Hiawatha, Kansas
 name address
 Nature of Deposit Dry Accessibility Fair
 Status of Site Open site; sampled

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	1/4	16	30	50	100			
AVE		7	6	0	1	3	7	14	39	64	77	89	8	2.93

CORRELATION DATA

Geological Age Quaternary
 Geological Source Glacial Drift
 Material Similar To Material reported on SHC Form 619
 No. MS 7-9 & Br. Co. #9, Lab Nos. AA5461, 11388
 Specific Gravity (sat.) 2.54 (dry)
 Los Angeles Wear 33.9 (C)
 Absorption 1.48 Soundness 0.95
 Wt. Cu.ft. 98.7 Str. Ratio
 Remarks



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

SG-40
Qgd

Site No. _____ Date January 1966

Material Sand and Gravel County Brown

Location NW 1/4 SW 1/4 Sec. 18 Twp. 3S Range 17E

Owner Reuben F. Joy et ux. Hiawatha, Kansas
address

Nature of Deposit Dry Accessibility Fair

Status of Site Open site; sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of over-burden	Depth of Material	Percent Retained						Wash 200	G.F.	L.L.	P.L.
				1 1/2	3/4	3/8	4	8	16	30	50	100	
6						0	1	3	9	29	71	18	2

CORRELATION DATA

Geological Age Quaternary

Geological Source Glacial Drift

Material Similar To Material reported on SHC Form 619

No. 7-22 and Lab No. AB-2704

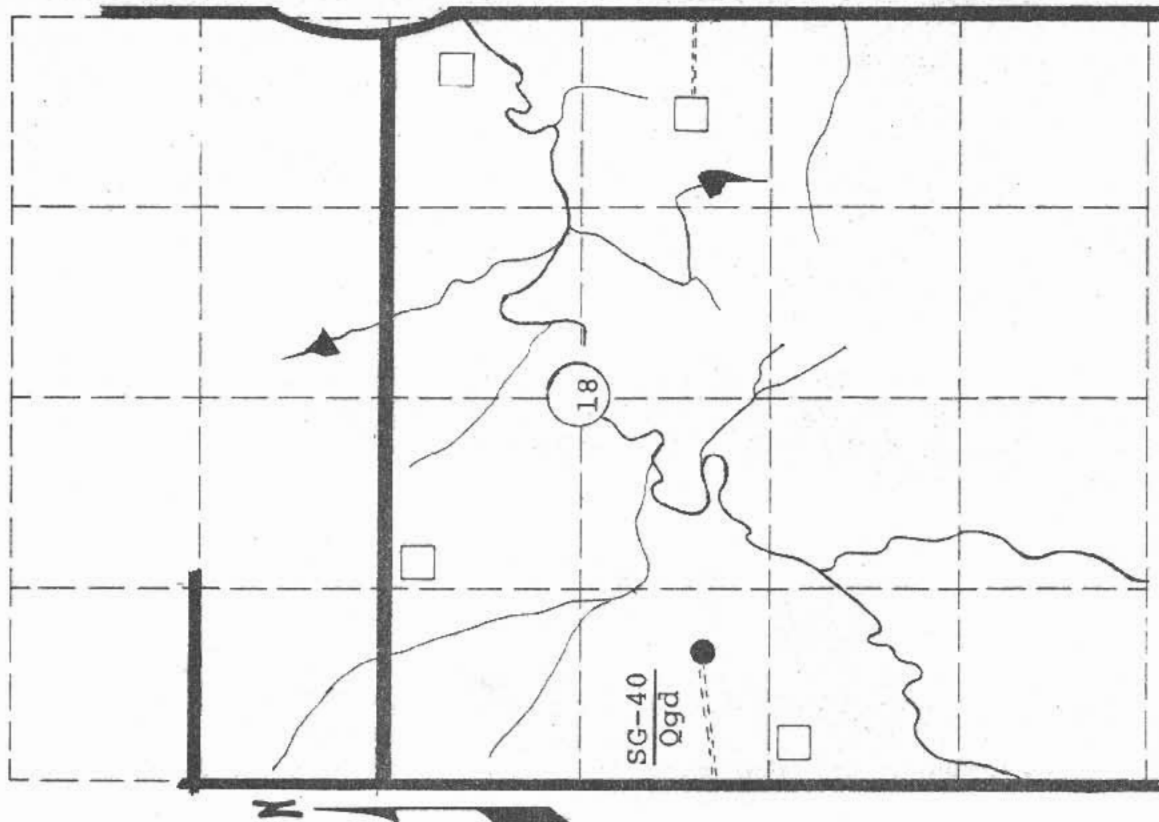
Specific Gravity (Sat.) _____ (Dry) _____

Los Angeles Wear _____

Absorption _____ Soundness _____

Wt. Cu.Ft. _____ Str. Ratio _____

Remarks _____



MATERIAL SURVEY REPORT

Site No. FS-41 Date January 1966
Qgd
 Material Fine Sand County Brown
 Location NE 1/4 NE 1/4 Sec. 20 Twp. 3S Range 17E
 Owner Harmon K. Wolfe et ux. R. R. 4, Hiawatha, Kansas
 name address
 Nature of Deposit Dry Accessibility Good
 Status of Site Open site; sampled

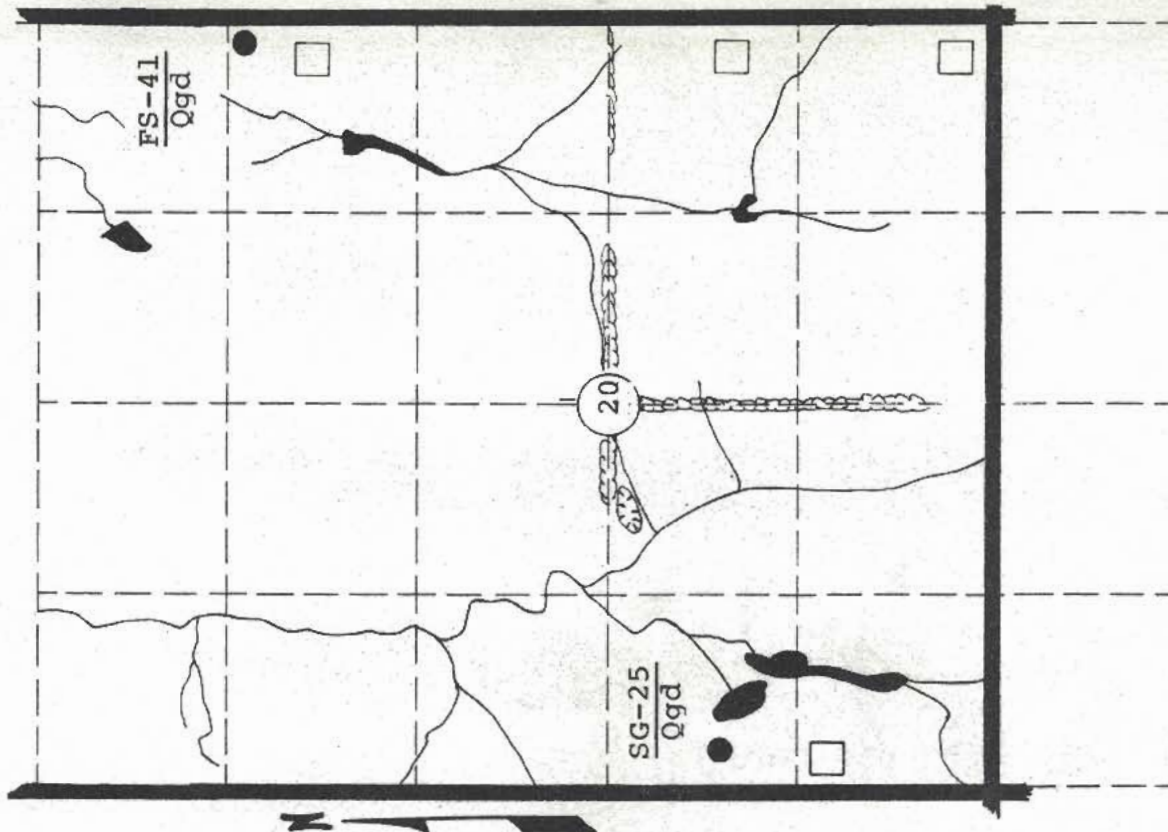
EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of over-burden	Depth of Material	Percent Retained								Wash 200	G.F.	L.L.	P.I.
				1 1/2	3/4	3/8	4	8	16	30	50	100			
7								0	0	4	55	87	11		2

CORRELATION DATA

Geological Age Quaternary
 Geological Source Glacial Drift
 Material Similar to Material reported in SHC Form 619
 No. 7-23

Specific Gravity (Sat.) (Dry)
 Los Angeles Wear
 Absorption Soundness
 Wt. Cu.ft. Str. Ratio
 Remarks



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

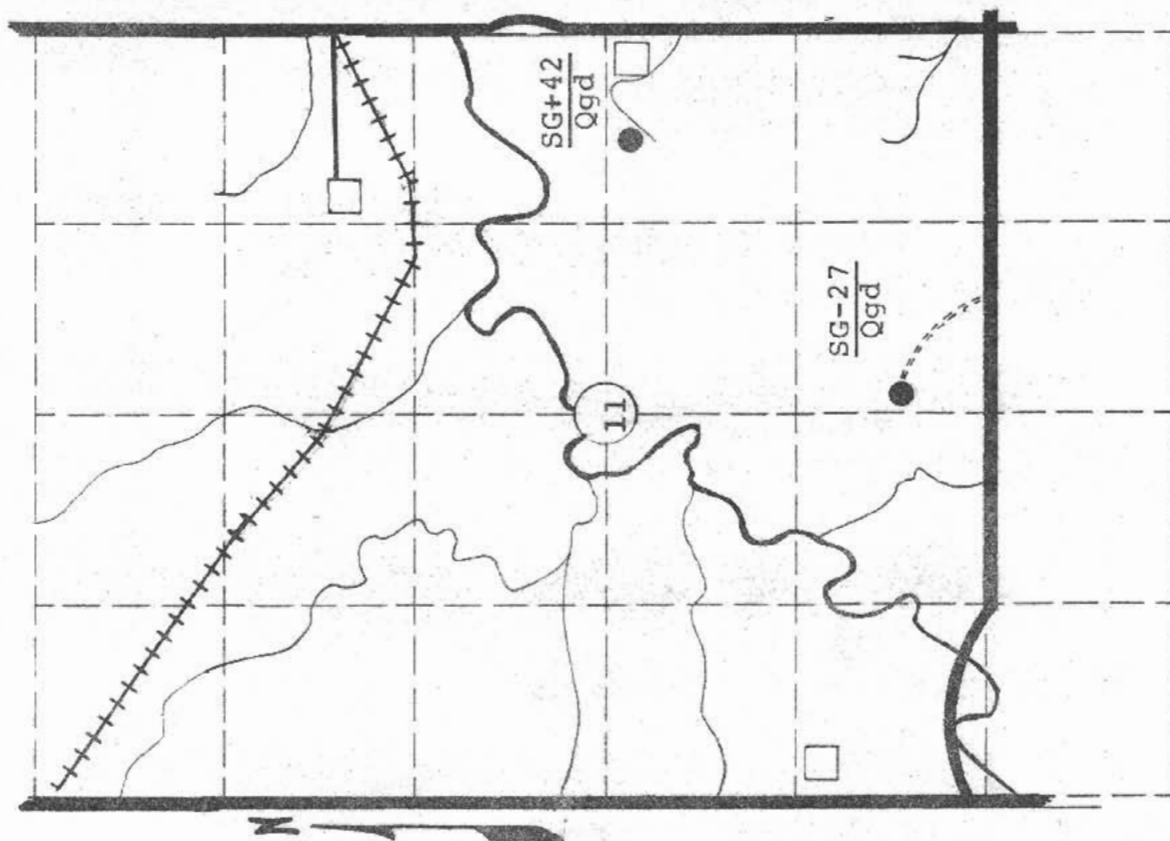
Site No. SG+42 Date January 1966
Qgd
 Material Sand and Gravel County Brown
 Location NE 1/4 SE 1/4 Sec. 11 Twp. 3S Range 17E
 Owner Robert K. Day R. R. 4, Hiawatha, Kansas
 address
 Nature of Deposit Dry Accessibility Good
 Status of Site Open site; sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of over-burden	Depth of Material	Percent Retained							Wash 200	G.F.	L.L.	P.I.
				1 1/2	3/4	3/8	1/4	16	30	50	100			
							1	2	8	23	51	78	18	2
							1	2	6	27	58	88	9	1
							0	1	4	24	80	96	3	-
							0	1	4	33	73	91	7	2
							2	4	14	45	58	87	9	3

CORRELATION DATA

Geological Age Quaternary
 Geological Source Glacial Drift
 Material Similar to Material reported in SHC Form 619
 No. 7-20
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu. Ft. _____ Str. Ratio _____
 Remarks _____



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

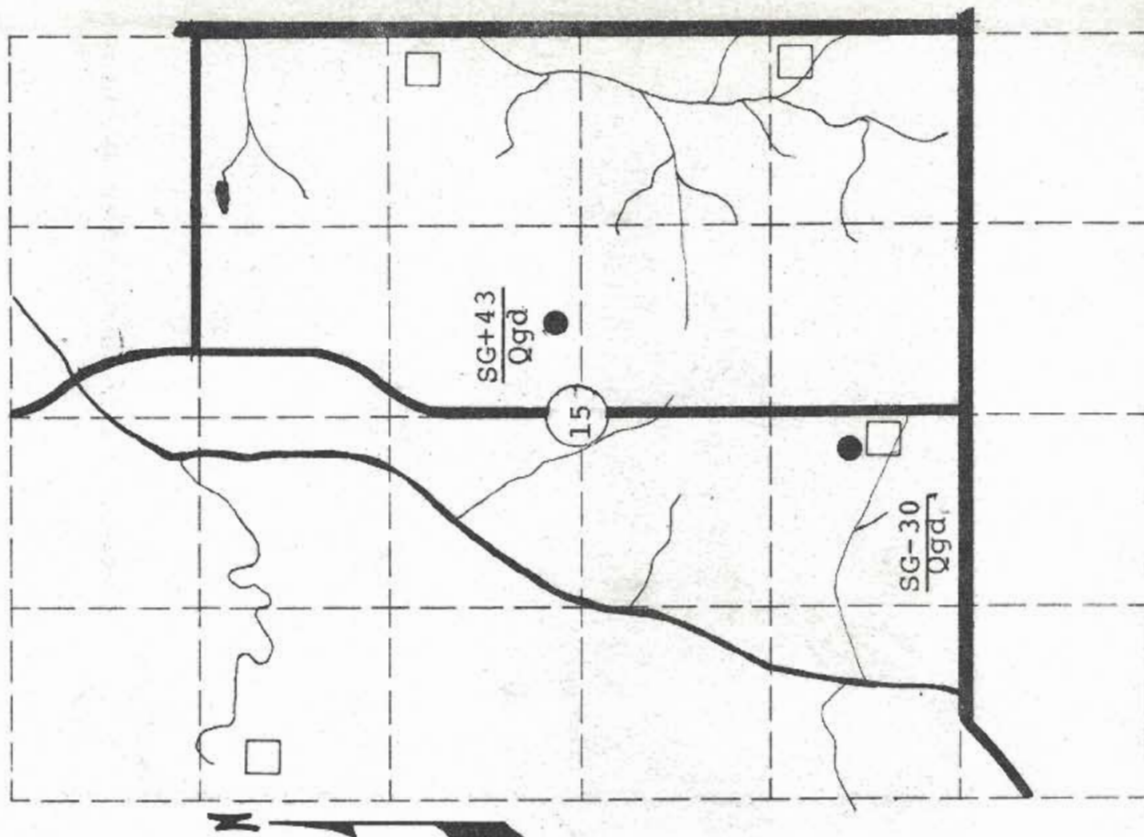
Site No. SG+43 Date January 1966
Qgd
 Material Sand and Gravel County Brown
 Location SW 1/4 NE 1/4 Sec. 15 Twp. 3S Range 18E
 Owner Clinton R. Glenn et al. Robinson, Kansas
 name address
 Nature of Deposit Dry Accessibility Fair
 Status of Site Open site; sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of over-burden	Depth of Material	Percent Retained								Wash 200	G.F.	L.L.	P. I.	
				1 1/2	3/4	3/8	4	8	16	30	50					100
					0	1	2	5	13	37	81	96	25	2.35		0
				0	2	12	26	38	51	65	74	78	-	3.46		15

CORRELATION DATA

Geological Age Quaternary
 Geological Source Glacial Drift
 Material Similar To Material reported on SHC Form 619
 No. 7-1
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Co. Ft. _____ Str. Ratio _____
 Remarks _____



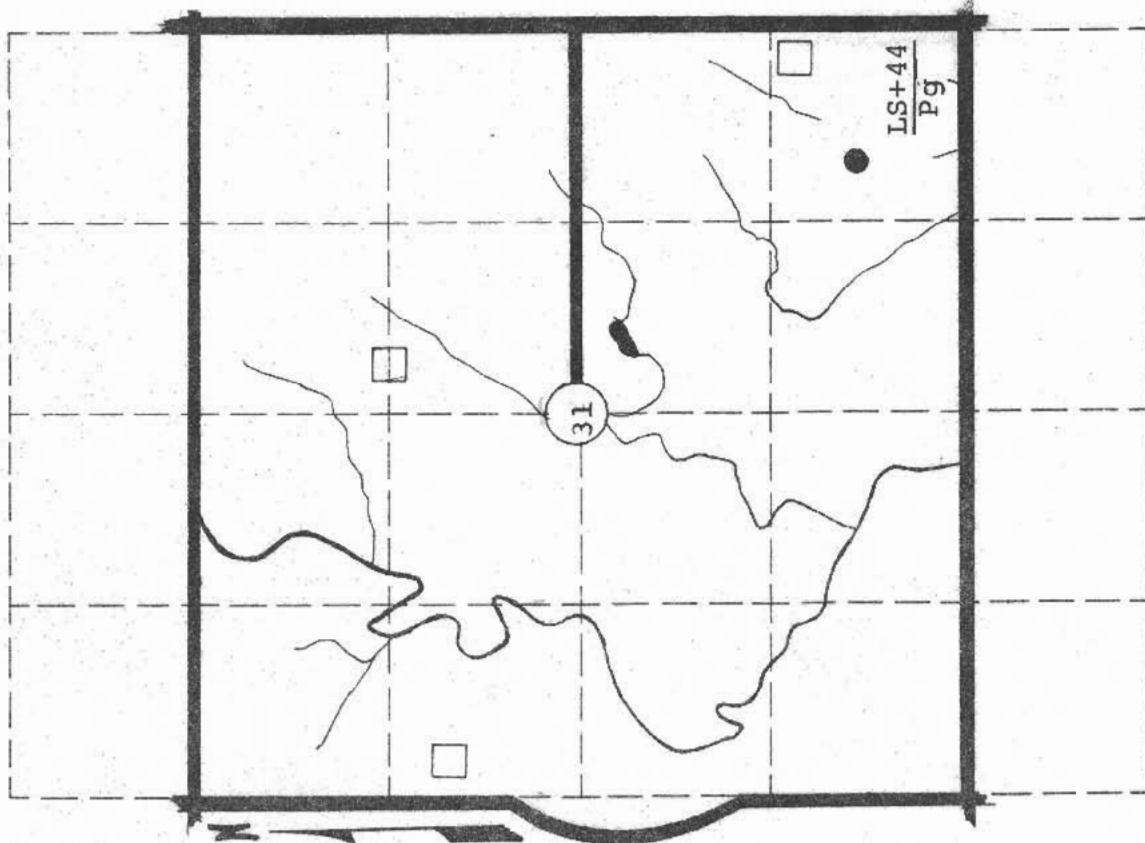
Scale: 1" = 1/4 Mile

EXPLORATION DATA

[illegible]

CORRELATION DATA

Geological Age Permian
Geological Source Grenola Limestone
Material Similar To Material reported on SHC Form 619
No. 7-18 and the following Lab Nos. 87799, 93262,
94082, 94083, 14656 2.49 (dry)
Specific Gravity (Sat.)
Los Angeles Wear 33.4 (B)
Absorption 3.96 Soundness 0.82
Wt. Cu.ft. Str. Ratio
Remarks



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

MATERIAL SURVEY REPORT

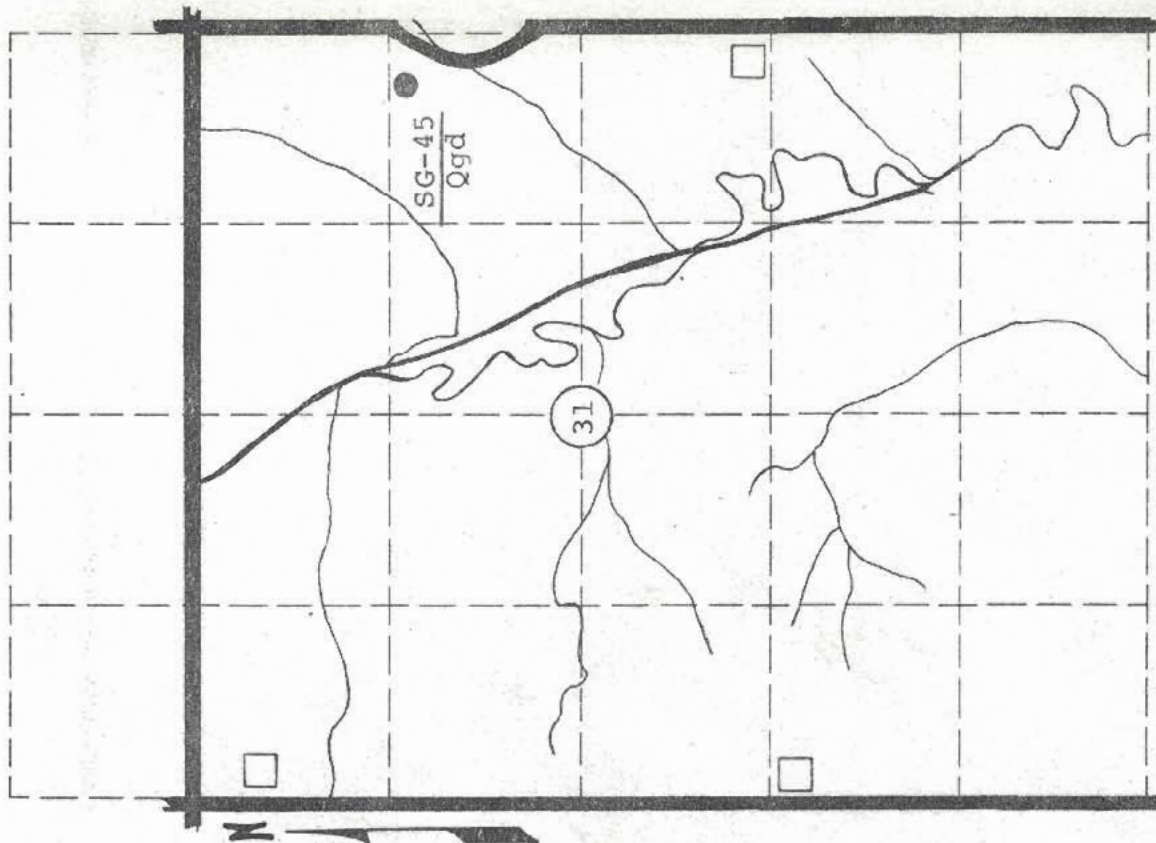
Site No. SG-45 Date January 1966
Qgd
 Material Sand and Gravel County Brown
 Location NE 1/4 NE 1/4 Sec. 31 Twp. 4S Range 15E
 Owner Sylvia A. Campbell et al. Wetmore, Kansas
 name address
 Nature of Deposit Dry Accessibility Good
 Status of Site Open site; sampled

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	3/8	4	8	16	30	50	100			
Composite Sample				0	2	5	10	18	29	52	76	19		14	1
Composite Sample				0	10	20	29	38	52	71	85	11		14	1

CORRELATION DATA

Geological Age Quaternary
 Geological Source Glacial Drift
 Material Similar To Material reported on SHC Form 619
 No. 7-13
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu. Ft. _____ Str. Ratio _____
 Remarks _____



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

SG-46
Qgd

Site No. _____ Date January 1966

Material Sand and Gravel County Brown

Location NW 1/4 NE 1/4 Sec. 29 Twp. 4S Range 15E

Owner Charley Steinbrink Netawaka, Kansas
name address

Nature of Deposit Wet Accessibility Good

Status of Site Open site; sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of over-burden	Depth of Material	Percent Retained						Wash 200	G. F.	L. L.	P. I.
				1/2	3/4	3/8	4	8	16	30	50	100	
				0	8	16	26	38	57	81	92	6	0

CORRELATION DATA

Geological Age Quaternary

Geological Source Glacial Drift

Material Similar To Material reported on SHC 619

NO. 7-24

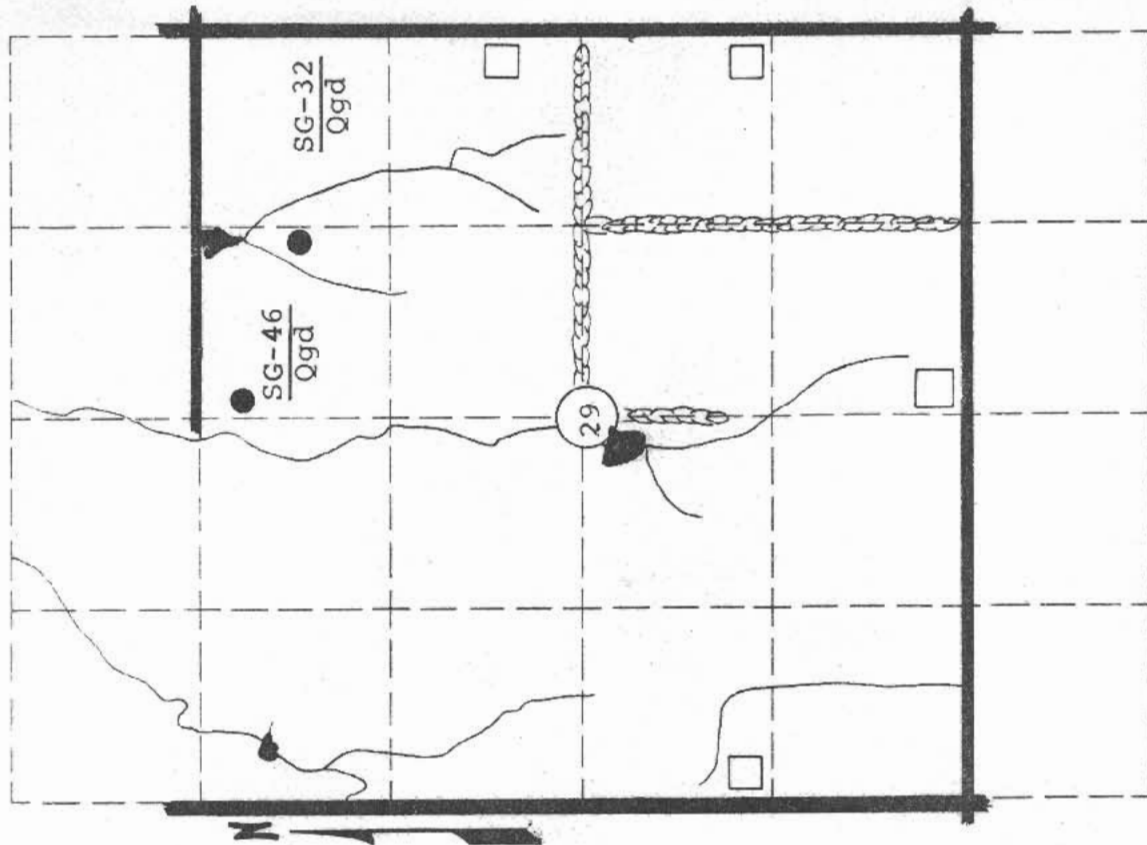
Specific Gravity (Sat.) _____ (dry)

Los Angeles Wear _____

Absorption _____ Soundness _____

Wt. Cu. Ft. _____ Str. Ratio _____

REMARKS _____



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

Site No. SG-47 Date January 1966
Qgd
 Material Sand and Gravel County Brown
 Location SW $\frac{1}{4}$ Sec. 22 Twp. 4S Range 15E
 Owner Harry Woodall Netawaka, Kansas
 Nature of Deposit Dry Accessibility Fair
 Status of Site Open site; sampled

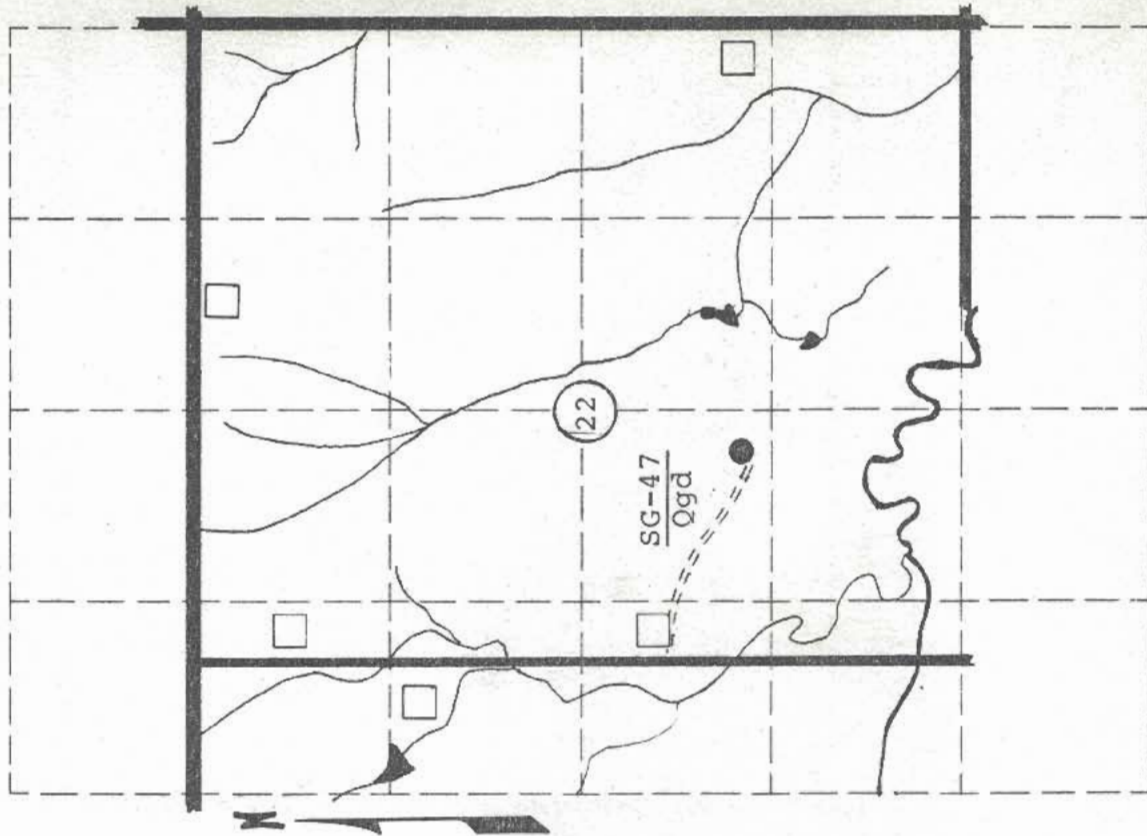
EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of over-burden	Depth of Material	Percent Retained								Wash 200	G.F.	L.L.	P.I.	
				1 1/2	3/4	3/8	4	8	16	30	50					100
					0	4	9	16	33	61	86	93	94			8
			</													

CORRELATION DATA

Geological Age Quaternary
 Geological Source Glacial Drift
 Material Similar To Material reported on SHC Form 619
 No. 7-25

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



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

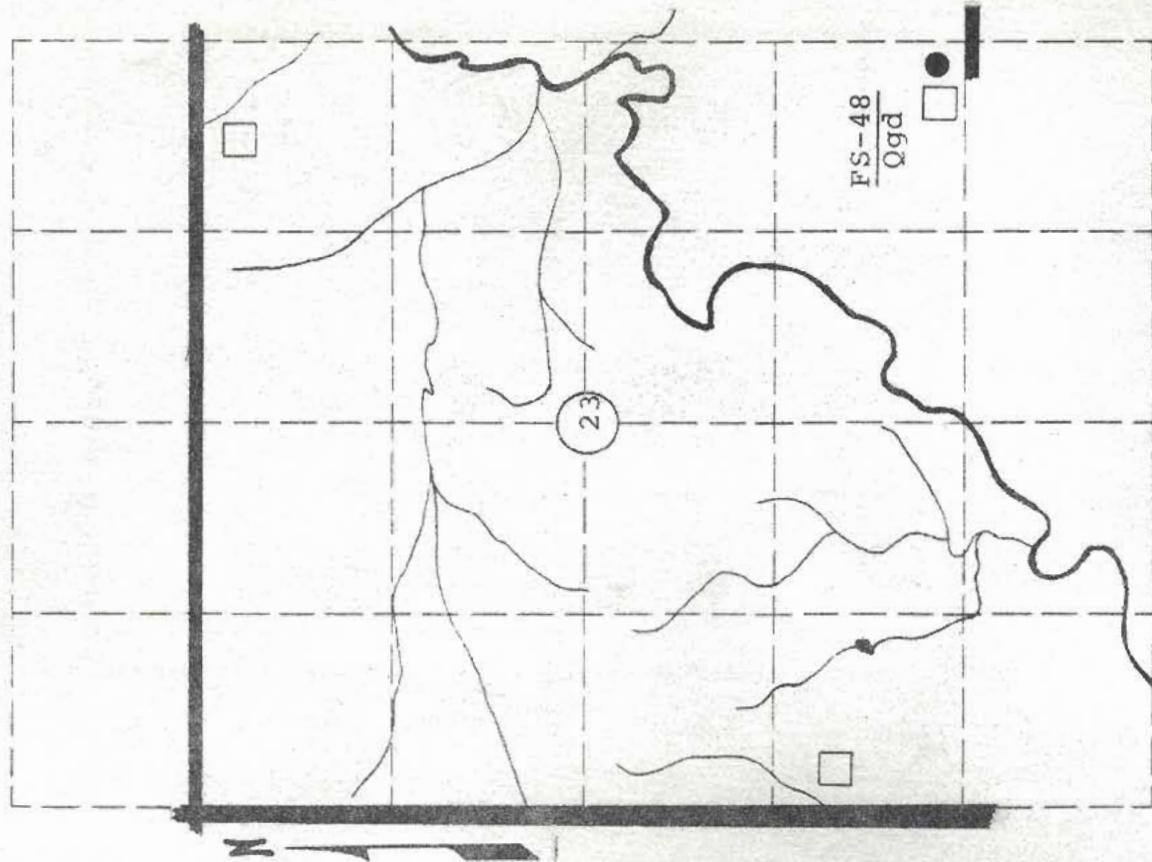
FS-48
 Qgd
 Site No. Qgd Date January 1966
 Material Fine Sand County Brown
 Location SE 1/4 SE 1/4 Sec. 23 Twp. 4S Range 15E
 Owner George F. Strube Powhattan, Kansas
 address
 Nature of Deposit Dry Accessibility Fair
 Status of Site Open site; sampled

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.L.
				1 1/2	3/4	3/8	4	8	16	30	50	100			
2				0	1	4	11	27	61	79	84	15			23
3				0	2	5	11	30	78	91	92	7			26

CORRELATION DATA

Geological Age Quaternary
 Geological Source Glacial Drift
 Material Similar To Material reported on SHC Form 619
 No. 7-21
 Specific Gravity (Sat.) (dry)
 Los Angeles Wear
 Absorption Soundness
 Wt. Cu. Ft. Str. Ratio
 Remarks



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

SG+49.
Qgd

Site No. _____ Date January 1966

Material Sand and Gravel County Brown

Location NE 1/4 NW 1/4 Sec. 18 Twp. 1S Range 16E

Owner Francis Gerdes et ux R. R. 1, Morrill, Kansas
address

Nature of Deposit Dry Accessibility Poor

Status of Site Open site; sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of over-burden	Depth of Material	Percent Retained							Wash 200	G.F.	L.L.	P.I.
				1/2	3/4	3/8	4	8	16	30				
			4	10	2338	5475	8689	918.14	66	39	17			

CORRELATION DATA

Geological Age Quaternary

Geological Source Glacial Drift

Material Similar To Material reported on SHC Form 619

#Br. Co. 6 Lab No. 62266

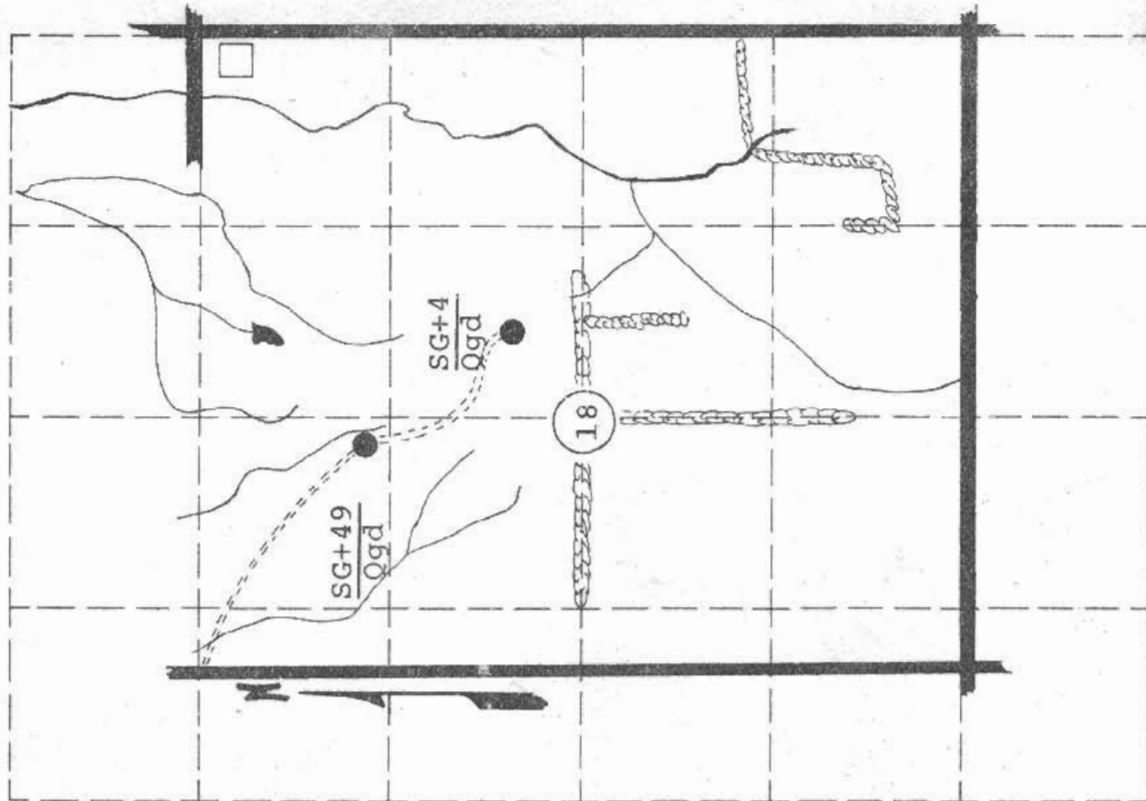
Specific Gravity (Sat.) _____ (Dry) _____

Los Angeles Wear 28.0 (A)

Absorption _____ Soundness 0.85

Wt. Cu.Ft. _____ Str. Ratio _____

Remarks _____



Scale: 1" = 1/4 Mile