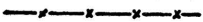




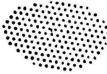












APPENDIX I

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

LEGEND

	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

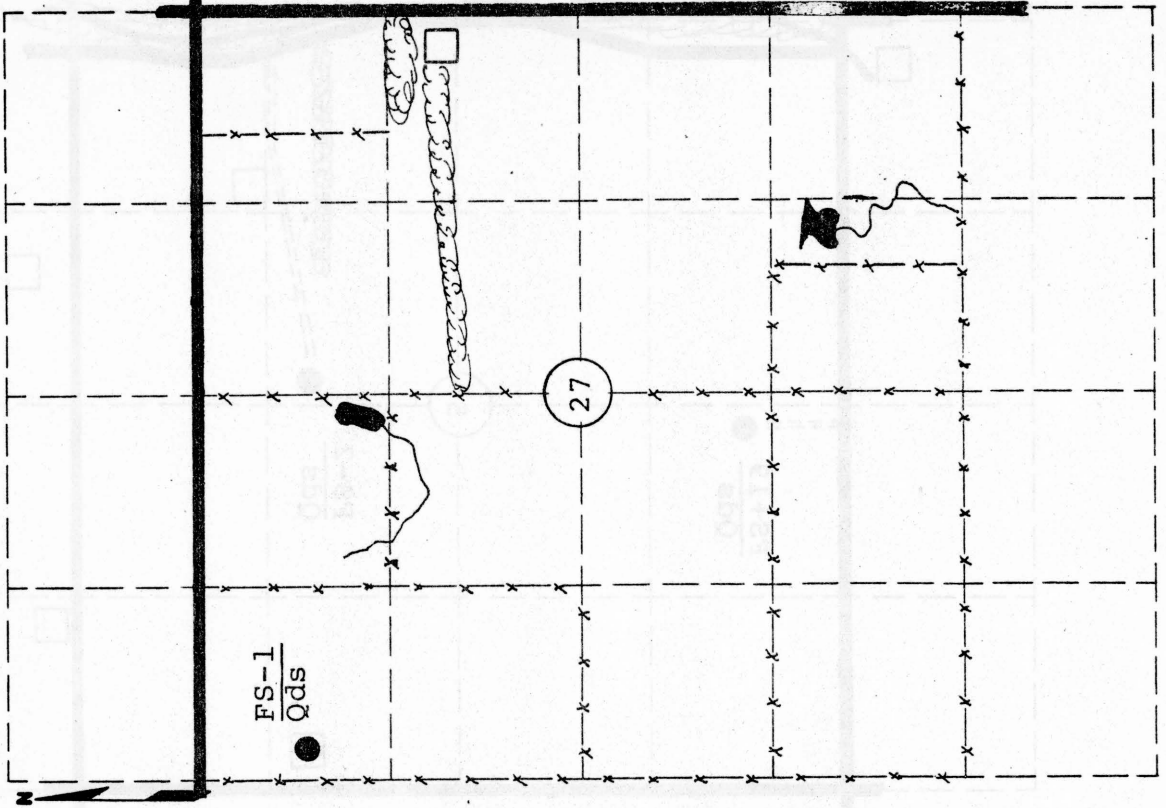
Site No. FS-1 Date March, 1966
Qds
 Material Fine Sand County Harvey
 Location NW 1/4 NW 1/4 Sec. 27 Twp. 22S Range 3W
 Owner William T. Dick Burton, Kansas
 Nature of Deposit Dry Accessibility Fair
 Status of Site Open site; not sampled

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Quaternary
 Geological Source Dune Sand
 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

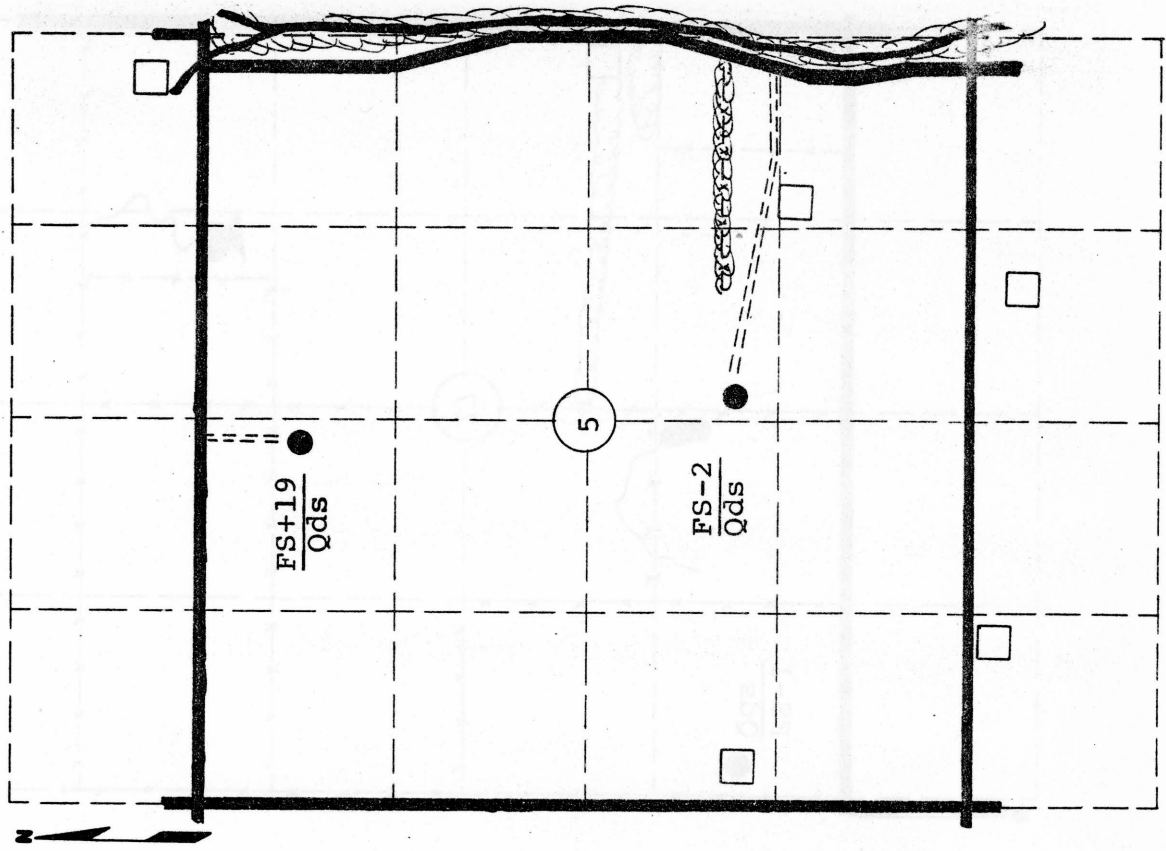
Site No. FS-2 Date March, 1966
Qds
 Material Fine Sand
 Location NW 1/4 SE 1/4 Sec. 5 Twp. 24S Range 1W
 Owner H. G. Hawk 307 W. Broadway, Newton, Kansas
 name address
 Nature of Deposit Dry Accessibility Good
 Status of Site Open site; not sampled

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	4	8	16	30					50	100	

CORRELATION DATA

Geological Age Quaternary
 Geological Source Dune Sand
 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

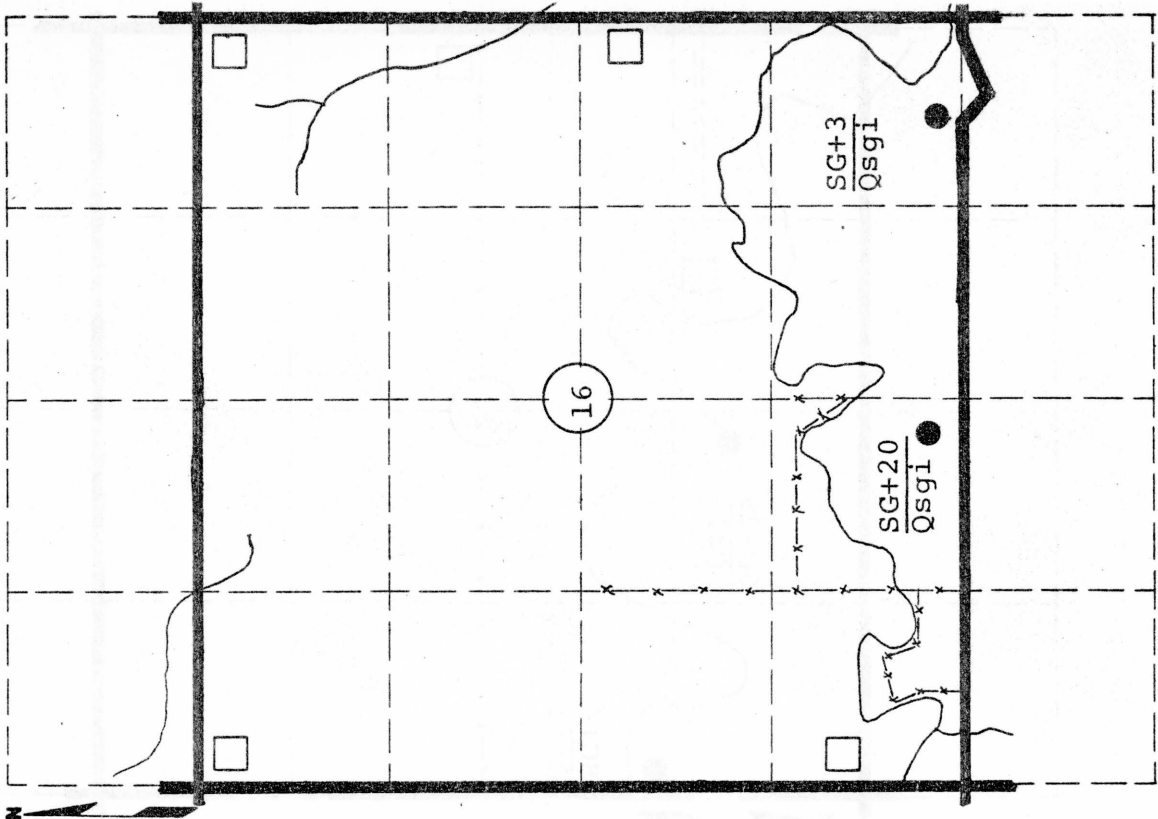
Site No. SG+3 / Qsgl Date March, 1966
 Material Sand & Gravel County Harvey
 Location SE 1/4 SE 1/4 Sec. 16 Twp. 24S Range 2W
 Owner Beryl D. Haiber R. R. 2, Halstead, Kansas
 address
 Nature of Deposit Wet Accessibility Good
 Status of Site Open site; not sampled

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

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+4 Date March, 1966
Qsg1
 Material Sand & Gravel County Harvey
 Location NW $\frac{1}{4}$ Sec. 23 Twp. 24S Range 2W
 Owner John Stutzman R. R. 2, Halstead, Kansas
 Nature of Deposit Wet Accessibility Good
 Status of Site Open site; not sampled

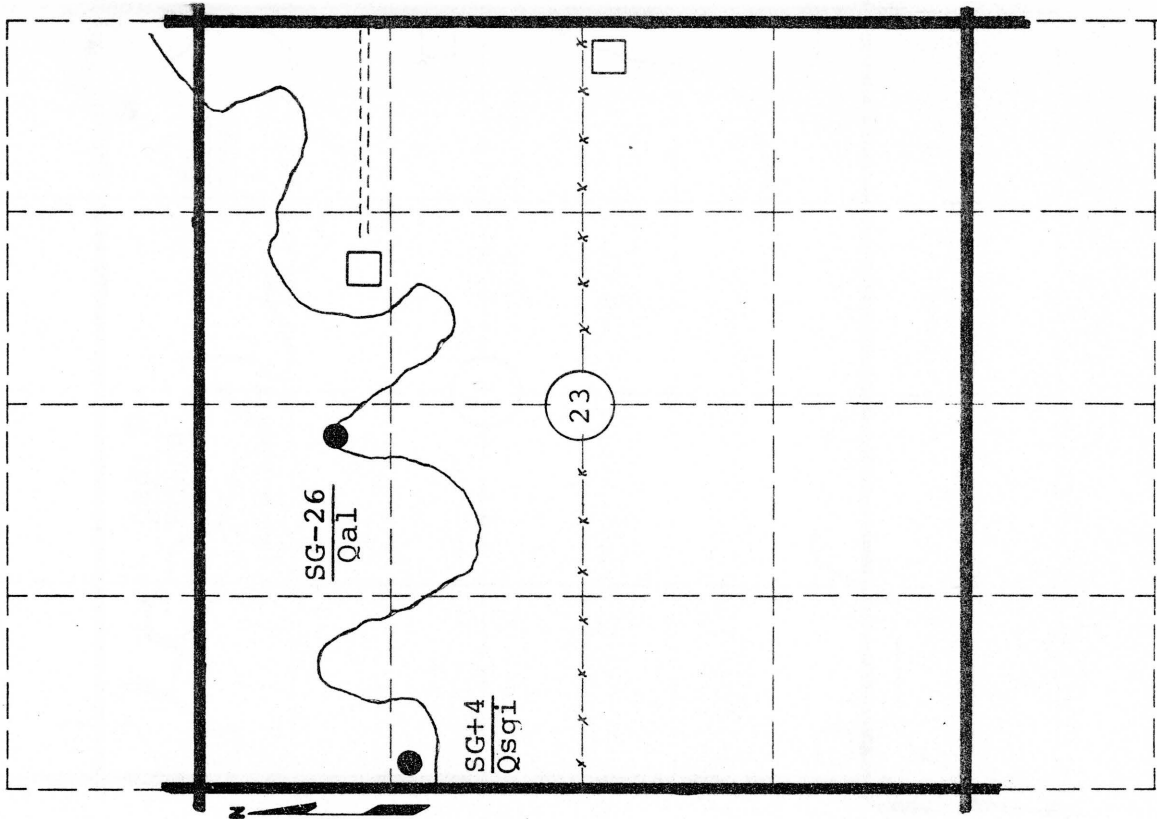
EXPLORATION DATA

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

Remarks This material is being produced from the Grand Island; however, the overburden is in the Alluvium.



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

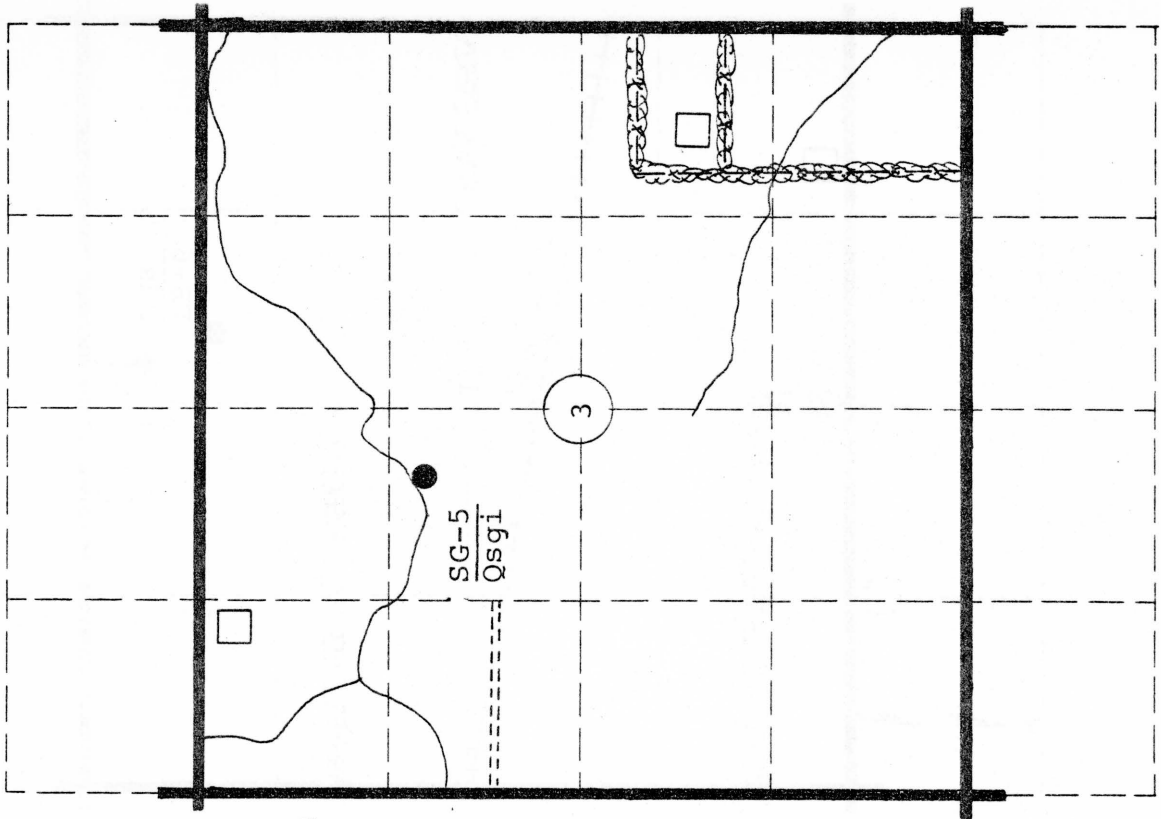
Site No. SG-5 Date March, 1966
Qsgl
 Material Sand & Gravel County Harvey
 Location SE 1/4 NW 1/4 Sec. 3 Twp. 24S Range 2W
 Owner Thomas L. Foster 2708 Abon, Ponca City, Oklahoma
name address
 Nature of Deposit Dry Accessibility POOR
 Status of Site Open site; not sampled

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 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

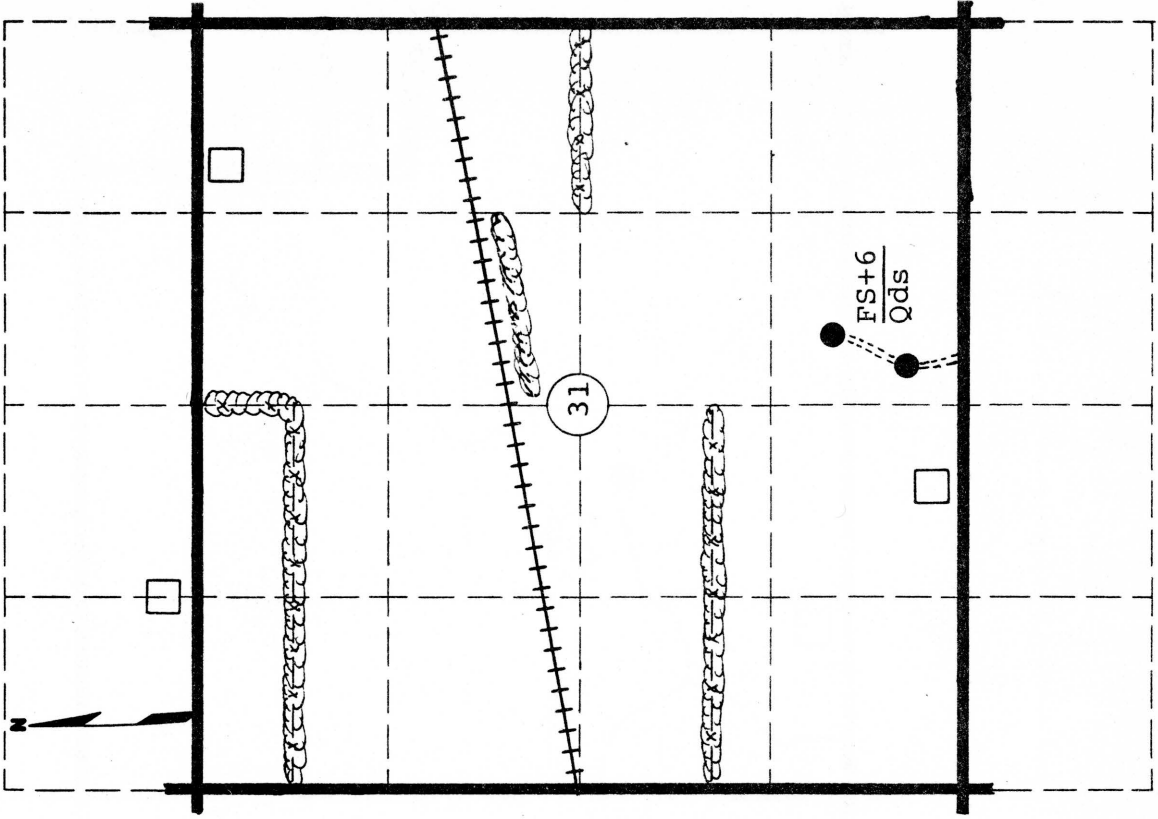
Site No. FS+6 Date March, 1966
Qds
 Material Fine Sand County Harvey
 Location SW 1/4 SE 1/4 Sec. 31 Twp. 23S Range 1W
 Owner See Remarks Below name address
 Nature of Deposit Dry Accessibility Good
 Status of Site Open site; not sampled

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	4	8	16	30					50	100	

CORRELATION DATA

Geological Age Quaternary
 Geological Source Dune Sand
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu.Ft. _____ Str. Ratio _____
 Remarks Samuel E. Stein, Estate, & Anna E. Stein, Adm.
R. R. 1, Sedgwick, Kansas



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

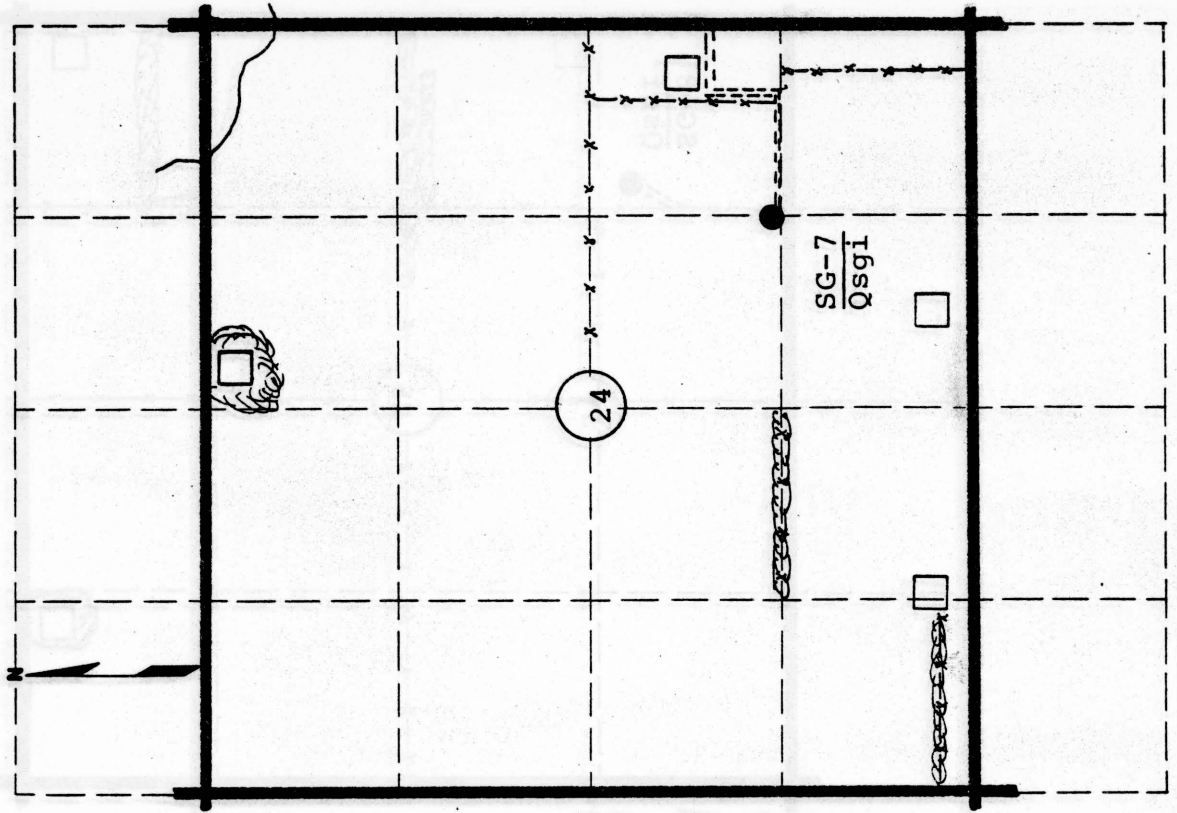
Site No. SG-7 Date March, 1966
Qsg1
 Material Sand & Gravel County Harvey
 Location SE 1/4 Sec. 24 Twp. 24S Range 3W
 Owner Dorothy C. Cooper R. R. 2, Sedgwick, Kansas
name address
 Nature of Deposit Dry Accessibility Fair
 Status of Site Open site; not sampled

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.									
				1/2	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

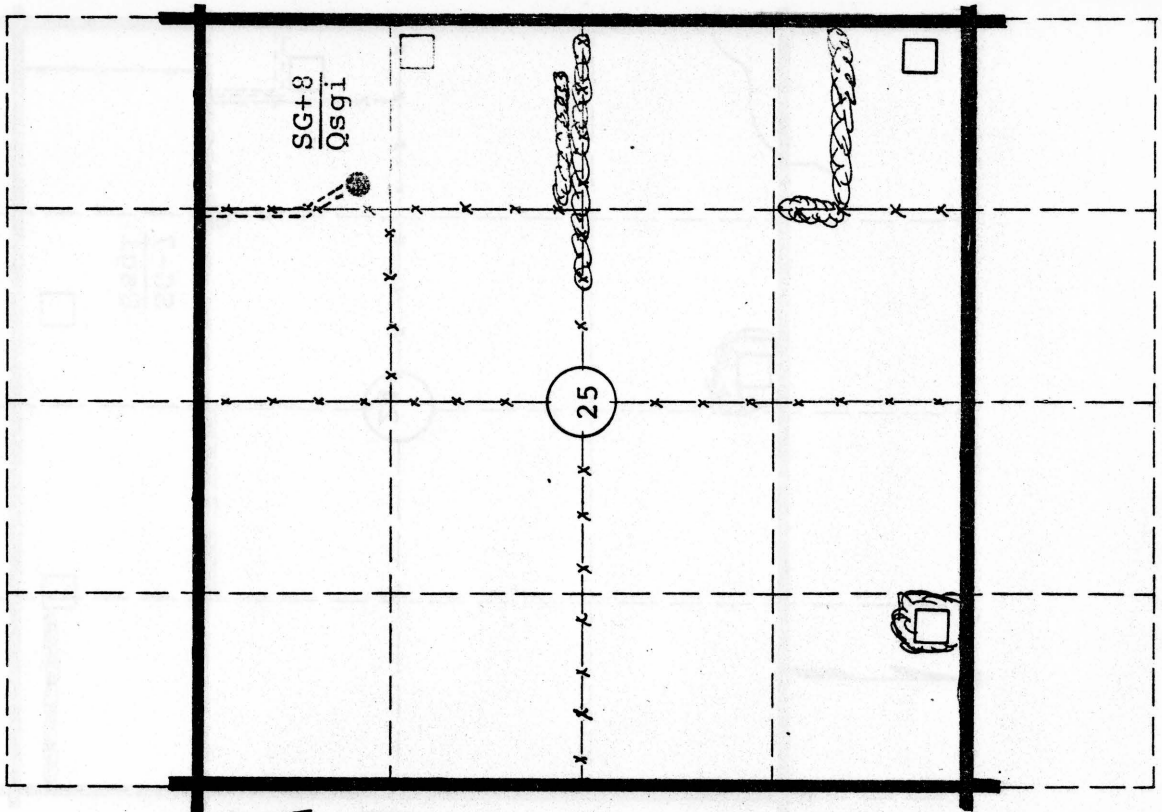
Site No. SG+8 Date March, 1966
Qsg1
 Material Sand & Gravel County Harvey
 Location NE 1/4 NE 1/4 Sec. 25 Twp. 24S Range 3W
 Owner W. M. Masters & Ivan Hunt R.R. 2, Sedgwick, Kans
 name address
 Nature of Deposit Dry Accessibility Fair
 Status of Site Open site; not sampled

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	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 This pit has expansion possibilities.



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

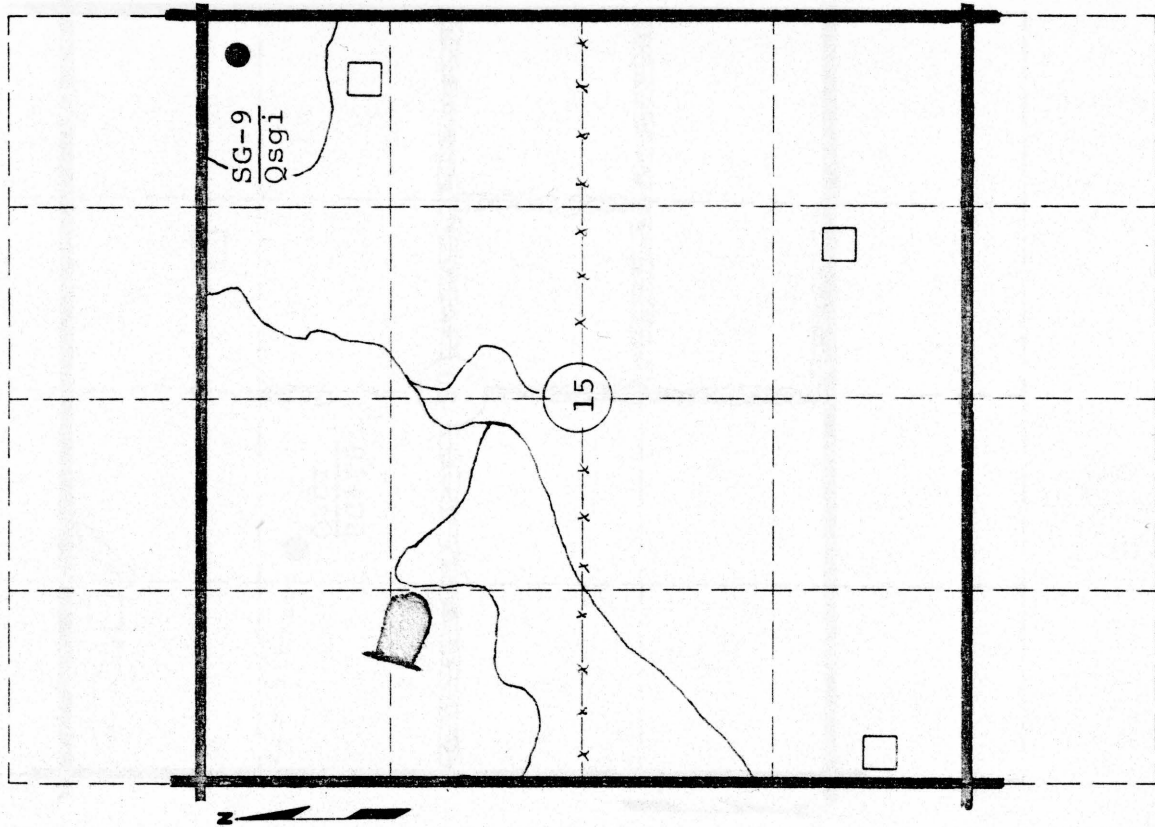
Site No. SG-9 Date March, 1966
Qsg1
 Material Sand & Gravel County Harvey
 Location NE 1/4 NE 1/4 Sec. 15 Twp. 24S Range 3W
 Owner Homer J. Redinger R. R. 2, Burrton, Kansas
 address
 Nature of Deposit Dry Accessibility Good
 Status of Site Open site; not sampled

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

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

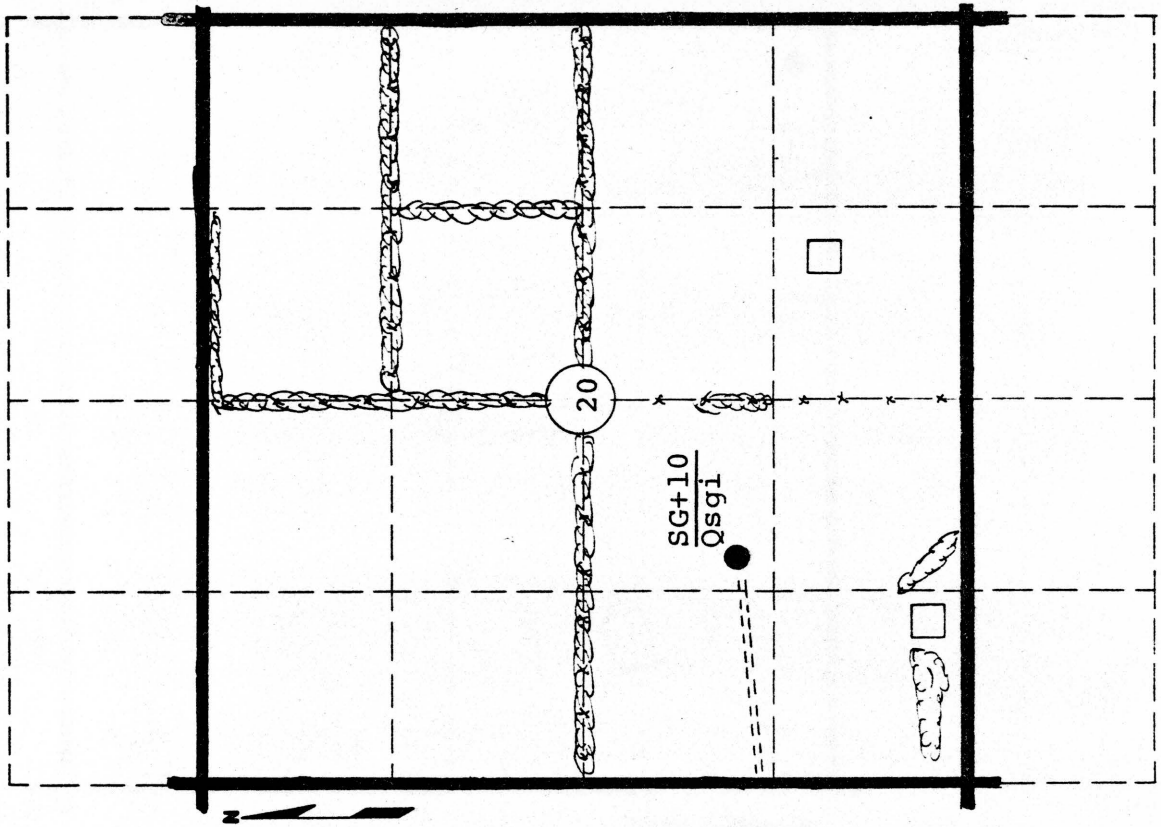
Site No. SG+10 Date March, 1966
Qsgi
 Material Sand & Gravel County Harvey
 Location SW 1/4 Sec. 20 Twp. 24S Range 3W
 Owner Anna Thach 2445 W. 3rd, Wichita, Kansas
 name address
 Nature of Deposit Dry Accessibility Good
 Status of Site Open site; not sampled

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	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

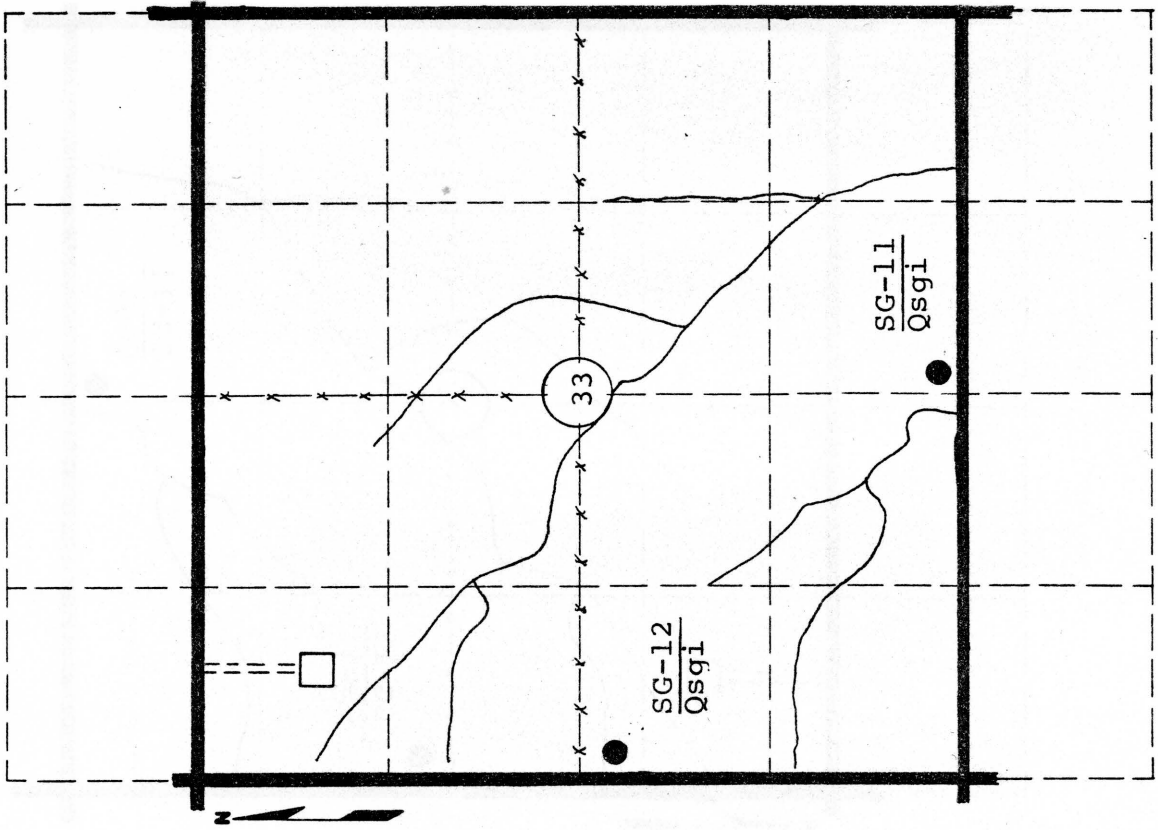
Site No. SG-11 Date March, 1966
Qsgl
 Material Sand & Gravel County Harvey
 Location SW 1/4 SE 1/4 Sec. 33 Twp. 23S Range 3W
 Owner Adolph G. Goering Moundridge, Kansas
 name address
 Nature of Deposit DRY Accessibility Good
 Status of Site Open site; not sampled

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	4	8	16	30					50

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

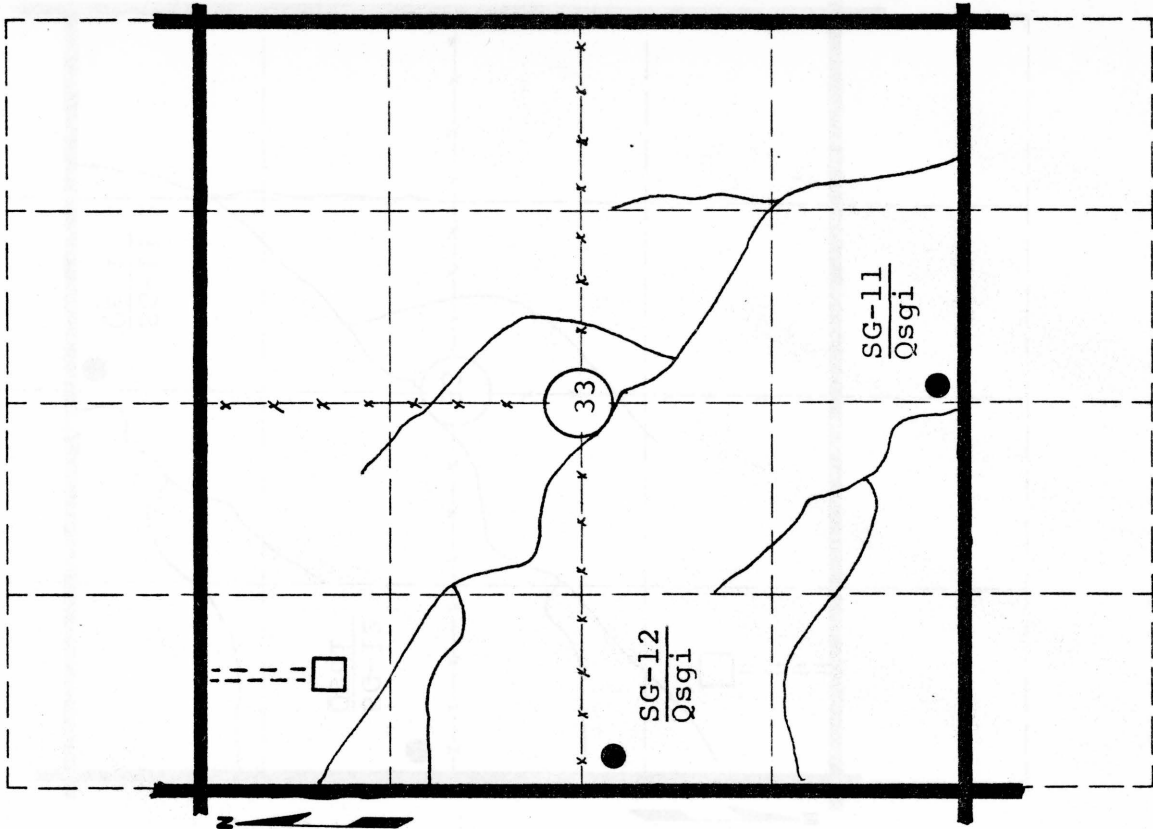
Site No. SG-12 Date March, 1966
Qsg1
 Material Sand & Gravel County Harvey
 Location NW 1/4 SW 1/4 Sec. 33 Twp. 23S Range 3W
 Owner Fred Unruh name Burrtton, Kansas address
 Nature of Deposit Wet Accessibility Good
 Status of Site Open site; not sampled

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

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

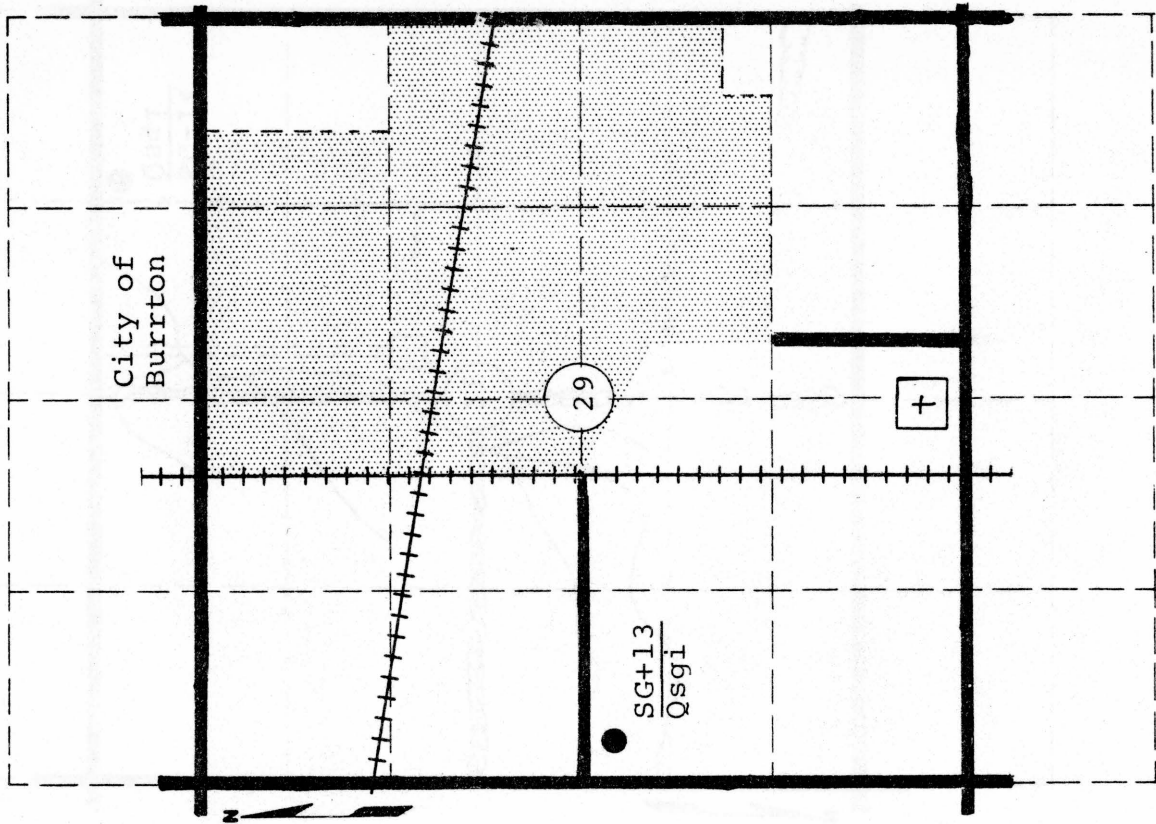
Site No. SG+13 Date March, 1966
Qsgl
 Material Sand & Gravel County Harvey
 Location NW 1/4 SW 1/4 Sec. 29 Twp. 23S Range 3W
 Owner Burton Township name address
 Nature of Deposit Dry Accessibility Good
 Status of Site Open site; not sampled

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

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

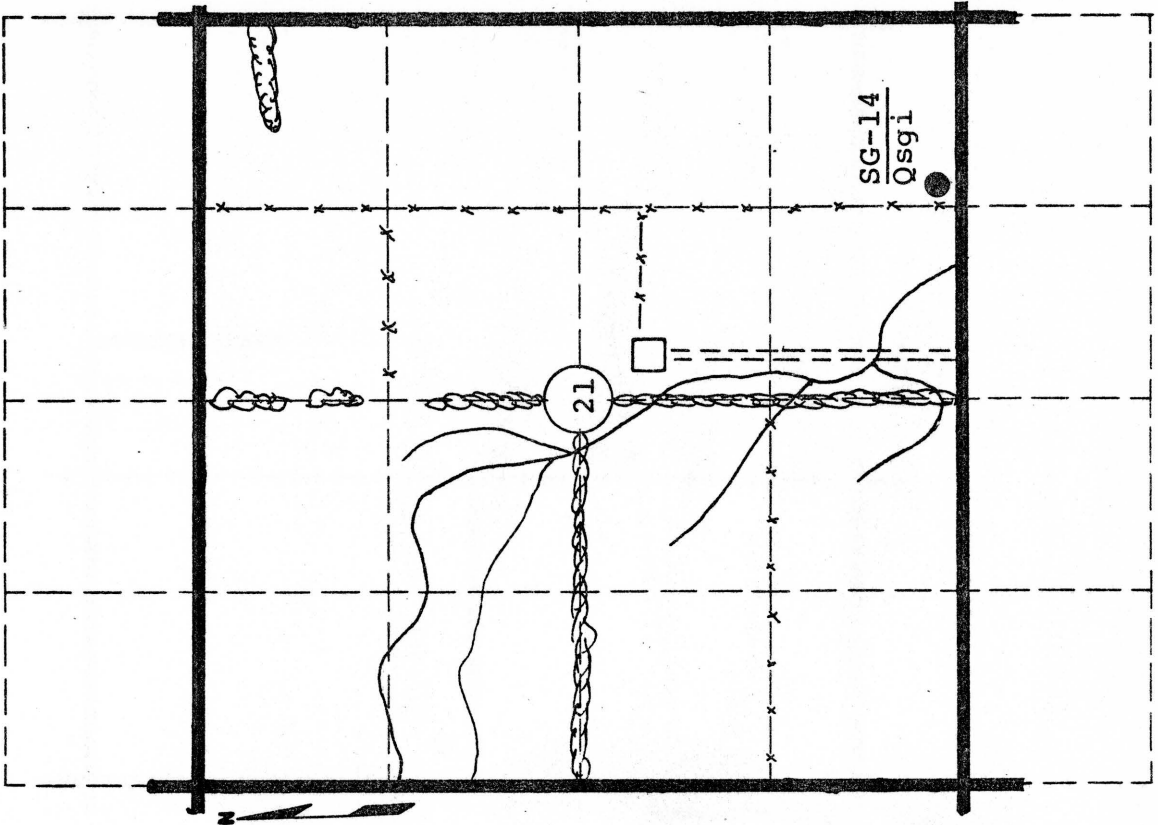
Site No. SG-14 Date March, 1966
Qsg1
 Material Sand & Gravel County Harvey
 Location SE 1/4 SE 1/4 Sec. 21 Twp. 23S Range 3W
 Owner H. J. Penner 101 Oak, Newton, Kansas
name address
 Nature of Deposit Wet Accessibility Good
 Status of Site Open site; not sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of over-Burden	Depth of Material	Percent Retained							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 Quaternary
 Geological Source Grand Island Formation
 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

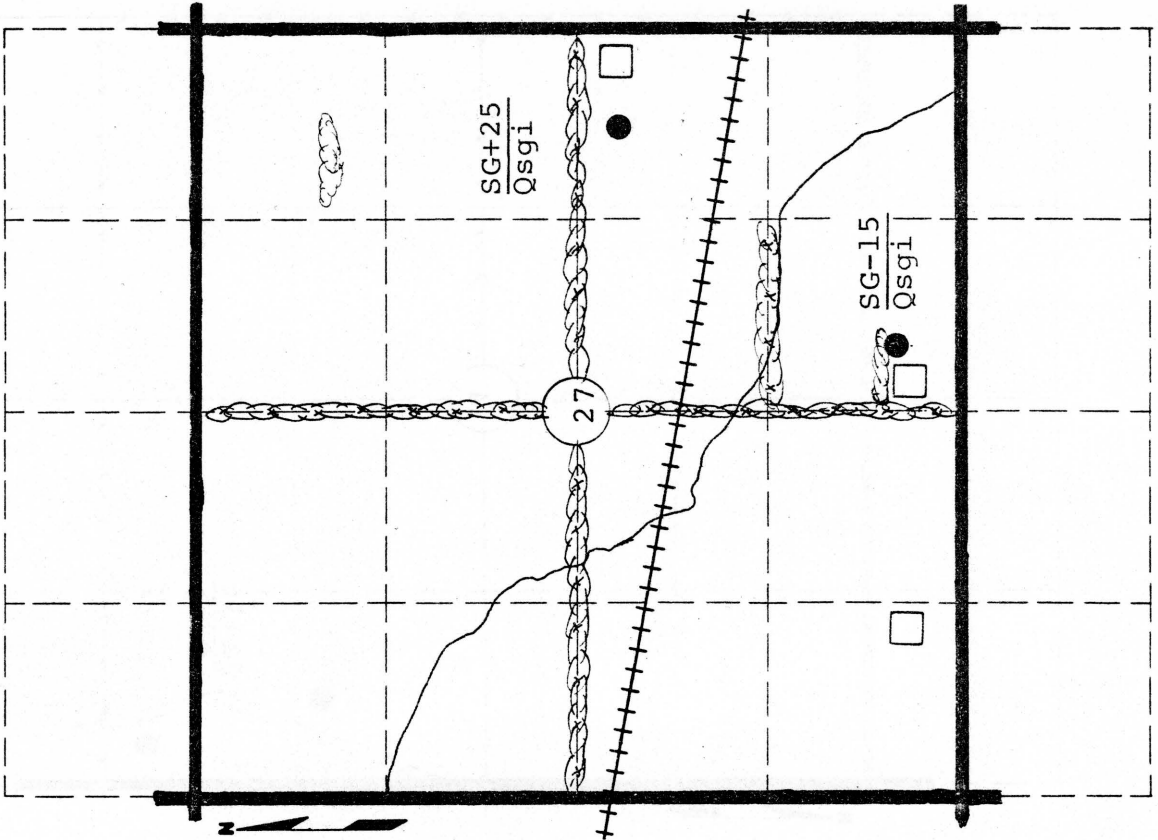
Site No. SG-15 Date March, 1966
Qsgi
 Material Sand & Gravel County Harvey
 Location SW 1/4 SE 1/4 Sec. 27 Twp. 23S Range 3W
 Owner Vernon J. Hill R. R. 2, Burrton, Kansas
 name address
 Nature of Deposit Dry Accessibility Good
 Status of Site Open site; not sampled

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	4	8	16					30

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

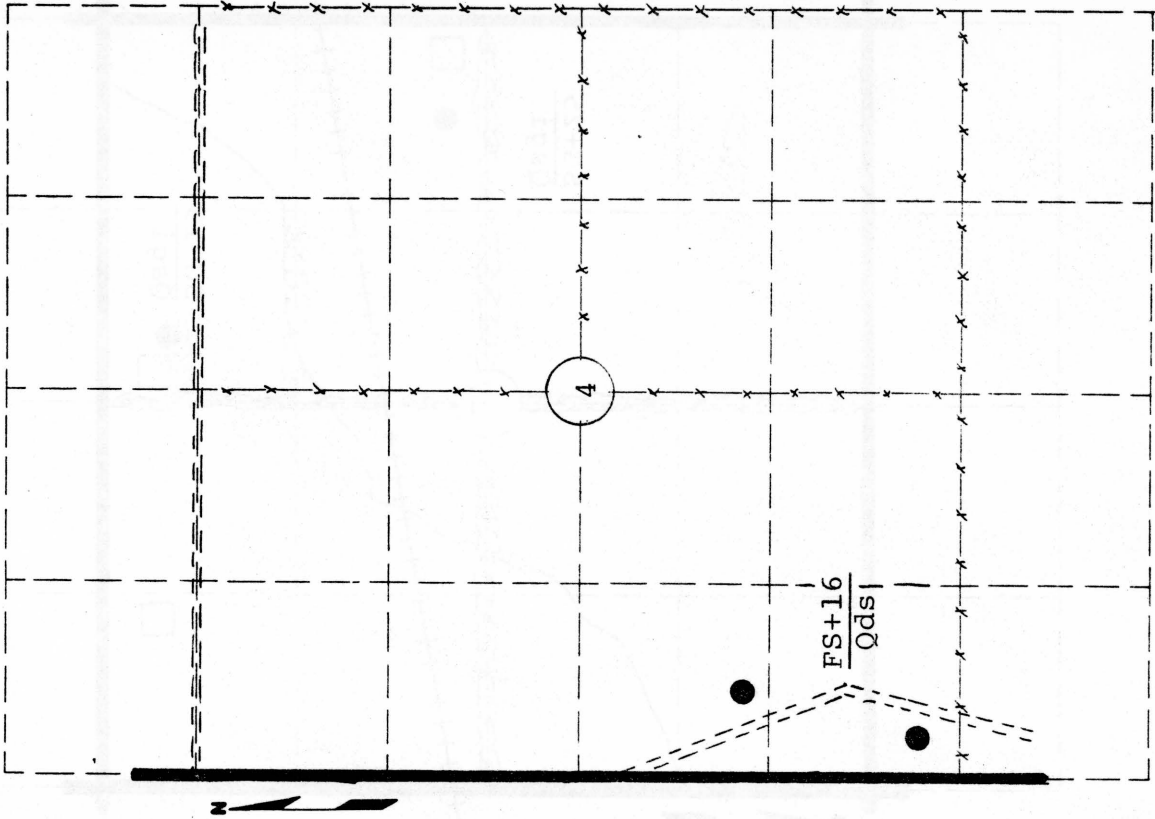
Site No. FS+16 Date March, 1966
Qds
 Material Fine Sand County Harvey
 Location SW $\frac{1}{4}$ Sec. 4 Twp. 23S Range 3W
 Owner See Remarks Below name address
 Nature of Deposit Dry Accessibility Good
 Status of Site Open site; not sampled

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

CORRELATION DATA

Geological Age Quaternary
 Geological Source Dune Sand
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu.ft. _____ Str. Ratio _____
 Remarks A. W. McBurney & Miles N. McBurney,
2413 N. Cascade, Colorado Springs, Colorado



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

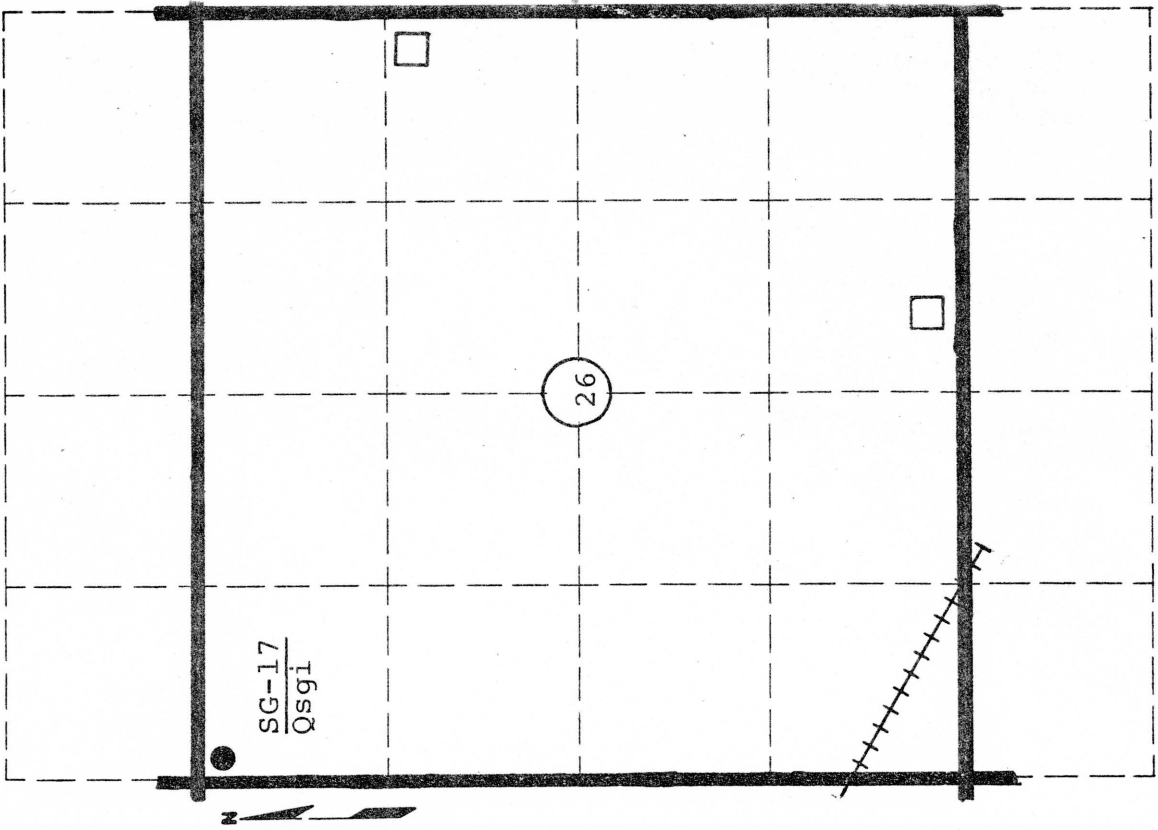
Site No. SG-17 Date March, 1966
Qsg1
 Material Sand & Gravel County Harvey
 Location NW 1/4 NW 1/4 Sec. 26 Twp. 24S Range 3W
 Owner Leslie Valdois Haven, Kansas address
 Nature of Deposit Dry Accessibility Good
 Status of Site Open site; not sampled

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 Wear _____
 Absorption _____ Soundness _____
 Mt. Cu.Ft. _____ Str. Ratio _____
 Remarks This pit now being used for a trash dump

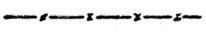

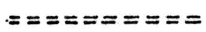

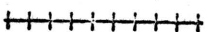
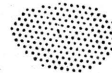
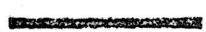

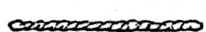









Scale: 1" = 1/4 Mile

APPENDIX II

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

LEGEND

	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

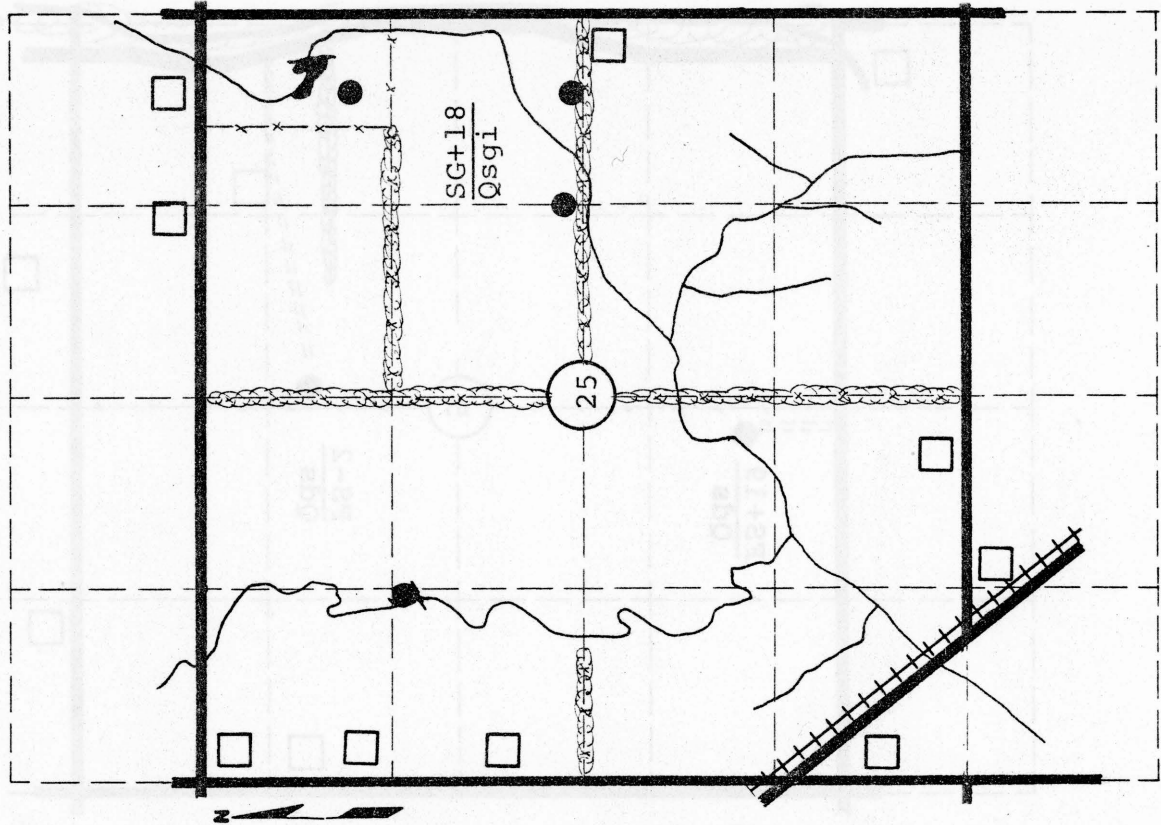
Site No. SG+18 Date March, 1966
Qsgi
 Material Sand & Gravel County Harvey
 Location NE 1/4 Sec. 25 Twp. 22S Range 1W
 Owner Walter E. Lehman R. R. 1, Newton, Kansas
 name address
 Nature of Deposit Dry Accessibility Fair
 Status of Site Open site; sampled

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.
				1/2	3/4	1	3/8	4	8	16				
				1	7	24	56	86	92	7		19	3	

CORRELATION DATA

Geological Age Quaternary
 Geological Source Grand Island Formation
 Material Similar To Material reported on SHC form 619 #40-4
 Specific Gravity (Sat.) (Dry)
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu.Ft. _____ Str. Ratio _____
 Remarks The NE 1/4 SE 1/4 Sec. 25, has been drilled and tested.
Estimated quantity in drilled area 1,300 cu. yds.



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

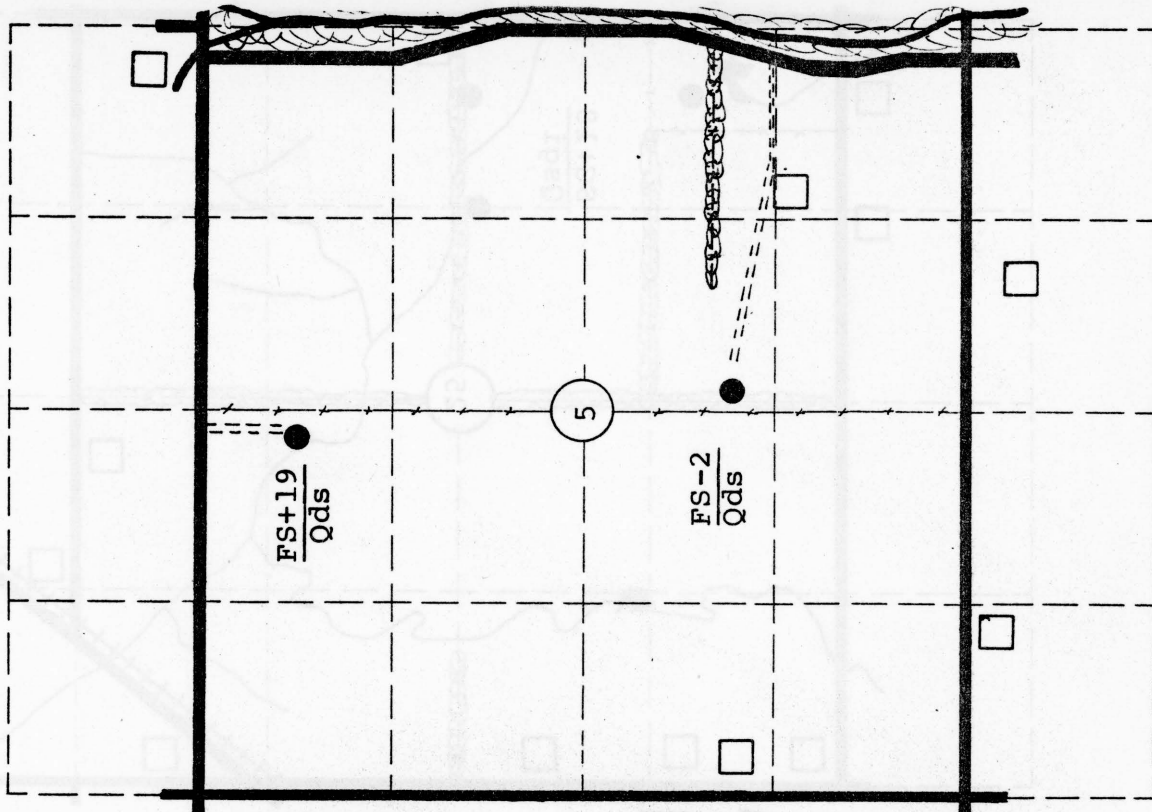
Site No. FS+19 Date March, 1966
Qds
 Material Fine Sand County Harvey
 Location NE 1/4 NW 1/4 Sec. 5 Twp. 24S Range 1W
 Owner Schwalter Foundation Inc., 213 N. Pine, Newton, Ks
 name address
 Nature of Deposit Dry Accessibility Good
 Status of Site Open site; sampled

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	
1				0	0	0	0	0	0	0	1	22	78	8			
2				0	0	0	0	0	0	0	1	22	74	9			
3				0	0	0	0	0	0	0	1	22	78	11			
6				0	0	0	0	0	0	0	1	23	75	10			23

CORRELATION DATA

Geological Age Quaternary
 Geological Source Dune Sand
 Material Similar To Material reported on SHC form 619 #40-3
 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+20 Date March, 1966
Qsgl
 Material Sand & Gravel County Harvey
 Location SE 1/4 SW 1/4 Sec. 16 Twp. 24S Range 2W
 Owner Bernhard H. Baumann R. R. 2, Halstead, Kansas
 name address
 Nature of Deposit Wet Accessibility Good
 Status of Site Open site; sampled

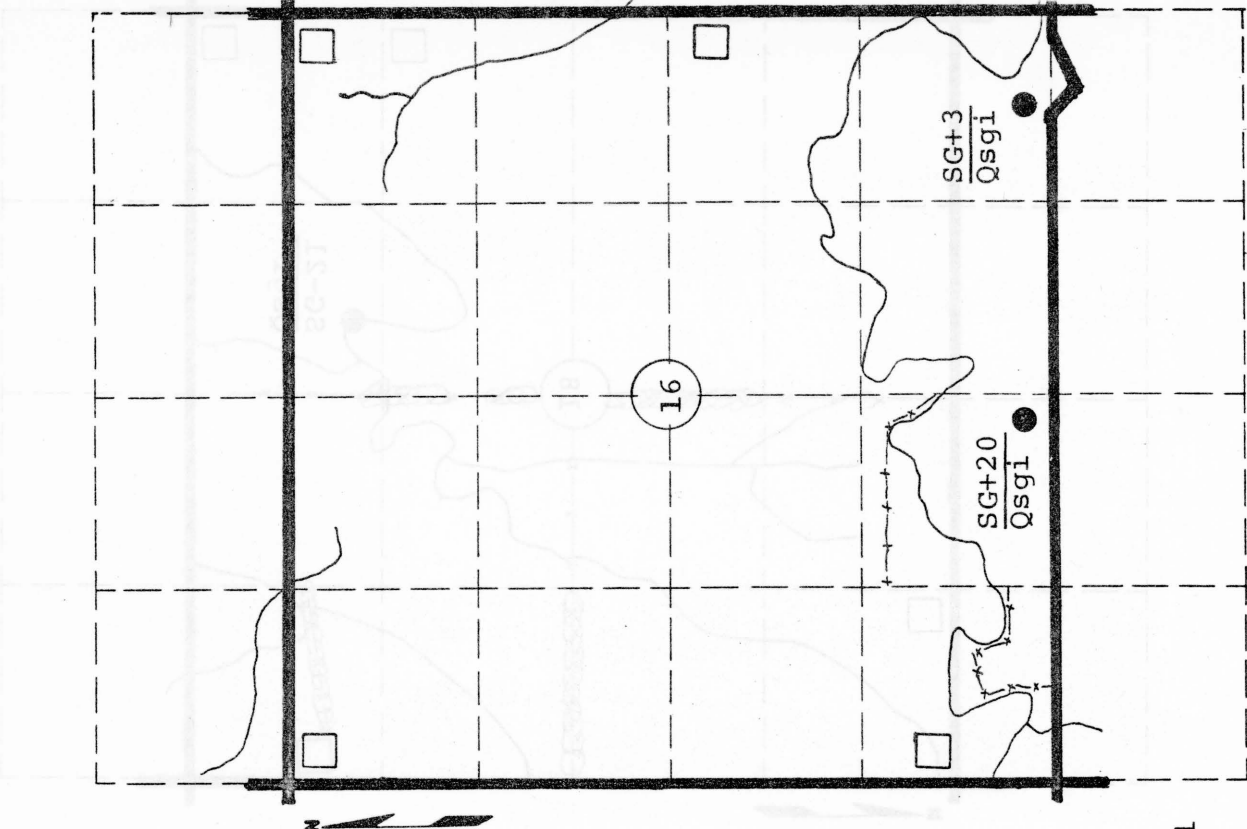
EXPLORATION DATA

Test hole	Material at Bottom of Hole	Depth of over-burden	Depth of Material	Percent Retained								Wash 200	G.F.	L.L.	P.L.	
				1/2	3/4	3/8	4	8	16	30	50					100
Pit Run				0	0	2	4	28	61	87	97	.28	4.19			
Lab #21285				0	0	1	9	23	49	73	90	98	.78	3.43		

CORRELATION DATA

Geological Age Quaternary
 Geological Source Grand Island Formation
 Material similar to Material reported on SHC form 619 #40-8.
 Specific Gravity (Sat.) 2.61 (Dry)
 Los Angeles Wear 35.4
 Absorption 0.8 Soundness 0.99
 Wt. Cu.Ft. 110.83 Str. Ratio 1-day 1.38, 3-day 1.41

Remarks _____



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

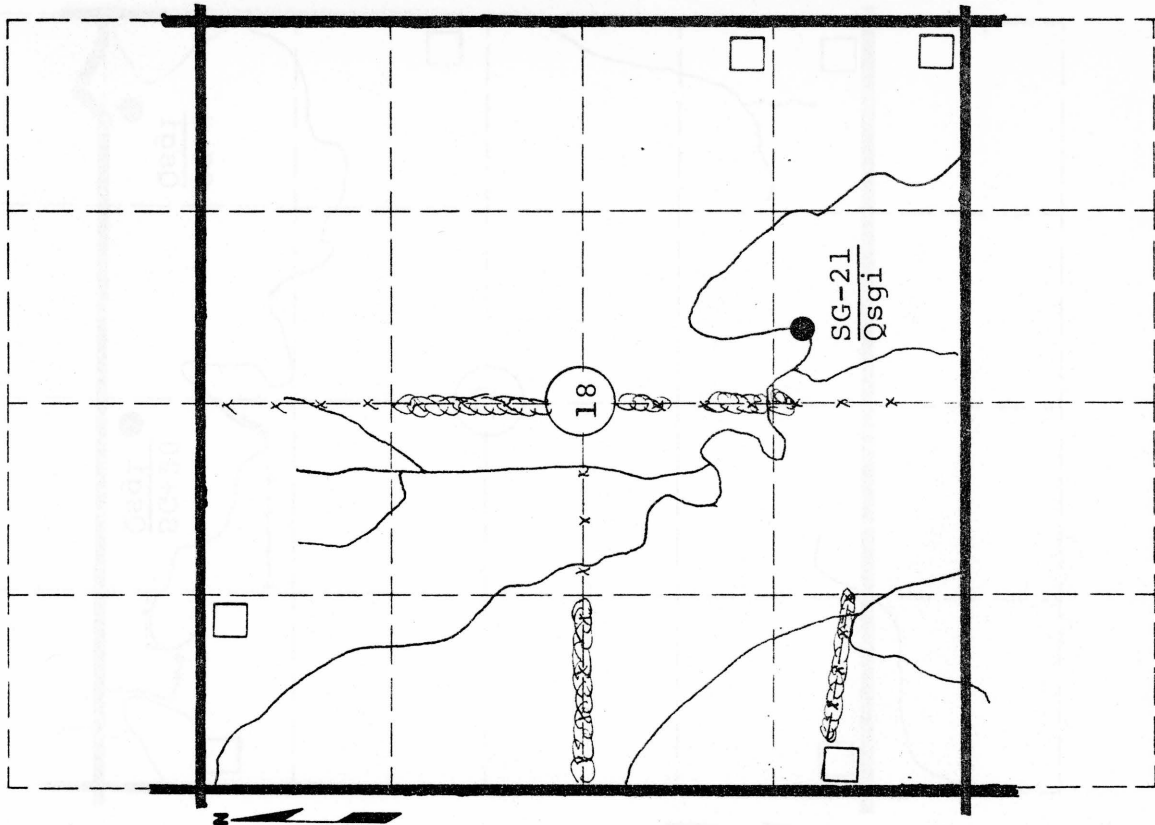
Site No. SG-21 Date March, 1966
Qsgl
 Material Sand & Gravel County Harvey
 Location SW 1/4 SE 1/4 Sec. 18 Twp. 24S Range 2W
 Owner Raymond Unruh Halstead, Kansas address
 Nature of Deposit Wet Accessibility Fair
 Status of Site Open site; sampled

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	0	0	2	9	29	64	86	94	141	3.82			

CORRELATION DATA

Geological Age Quaternary
 Geological Source Grand Island Formation
 Material Similar To _____
 Specific Gravity (Sat.) 2.61 (Dry) _____
 Los Angeles Wear 33.0 (D)
 Absorption 0.50 Soundness .98
 Wt. Cu.Ft. 111.80 Str. Ratio 1-day 1.35, 3-day 1.40
 Remarks _____



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

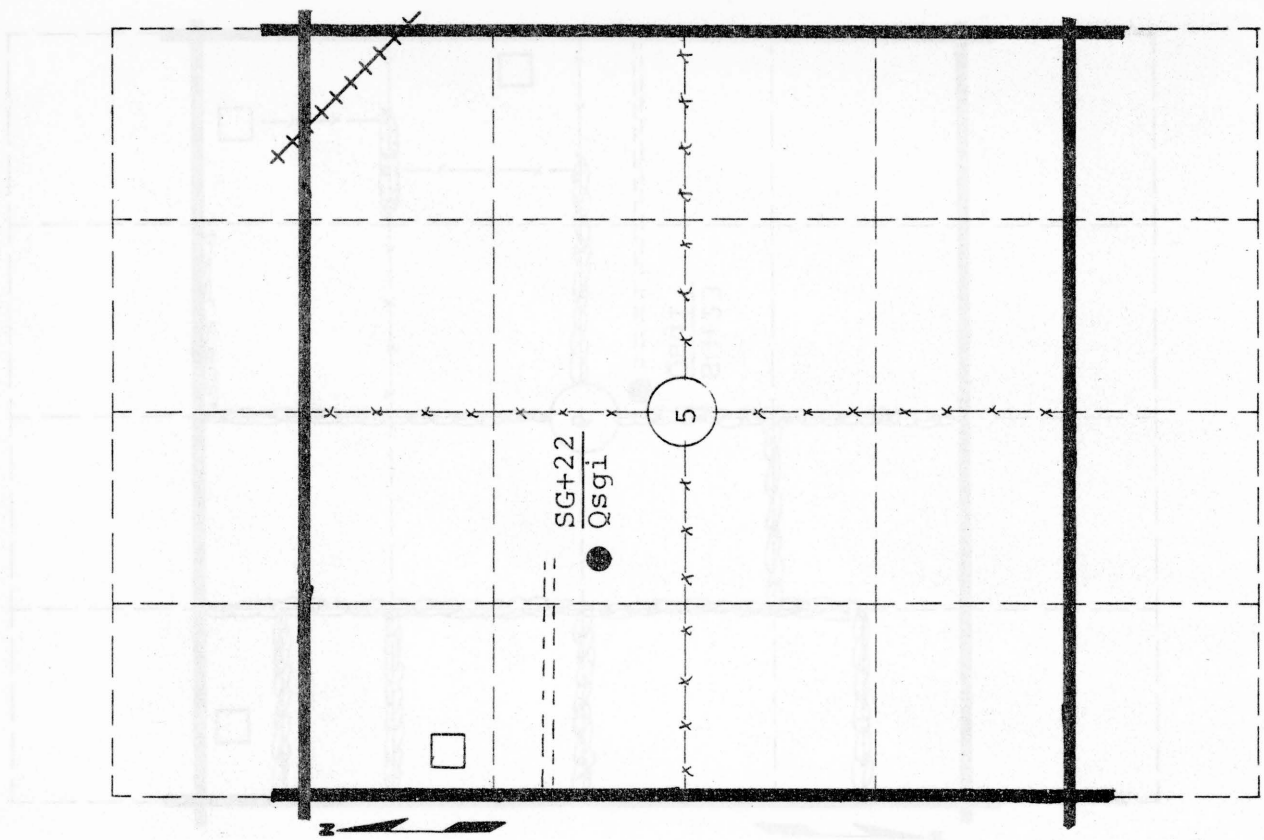
Site No. SG+22 Date March, 1966
Qsgi
 Material Sand & Gravel County Harvey
 Location NW 1/4 Sec. 5 Twp. 24S Range 3W
 Owner Anna M. Thach 2445 W. 3rd, Wichita, Kansas
 name address
 Nature of Deposit Wet Accessibility Good
 Status of Site Open site; sampled

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 1/2	3/4	3/8	4	8	16	30					50	100
				0	0	3	10	27	59	84	95	98	1	3.76		

CORRELATION DATA

Geological Age Quaternary
 Geological Source Grand Island Formation
 Material Similar To Material reported on SHC form 619 #40-1.
 Specific Gravity (Sat.) 2.61 (Dry)
 Los Angeles Wear 34.8 (D)
 Absorption 0.97
 Wt. Cu.Ft. 111.4 Str. Ratio 1-day 1.72, 3-day 1.55
 Remarks This site has been converted into a recreational area.



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

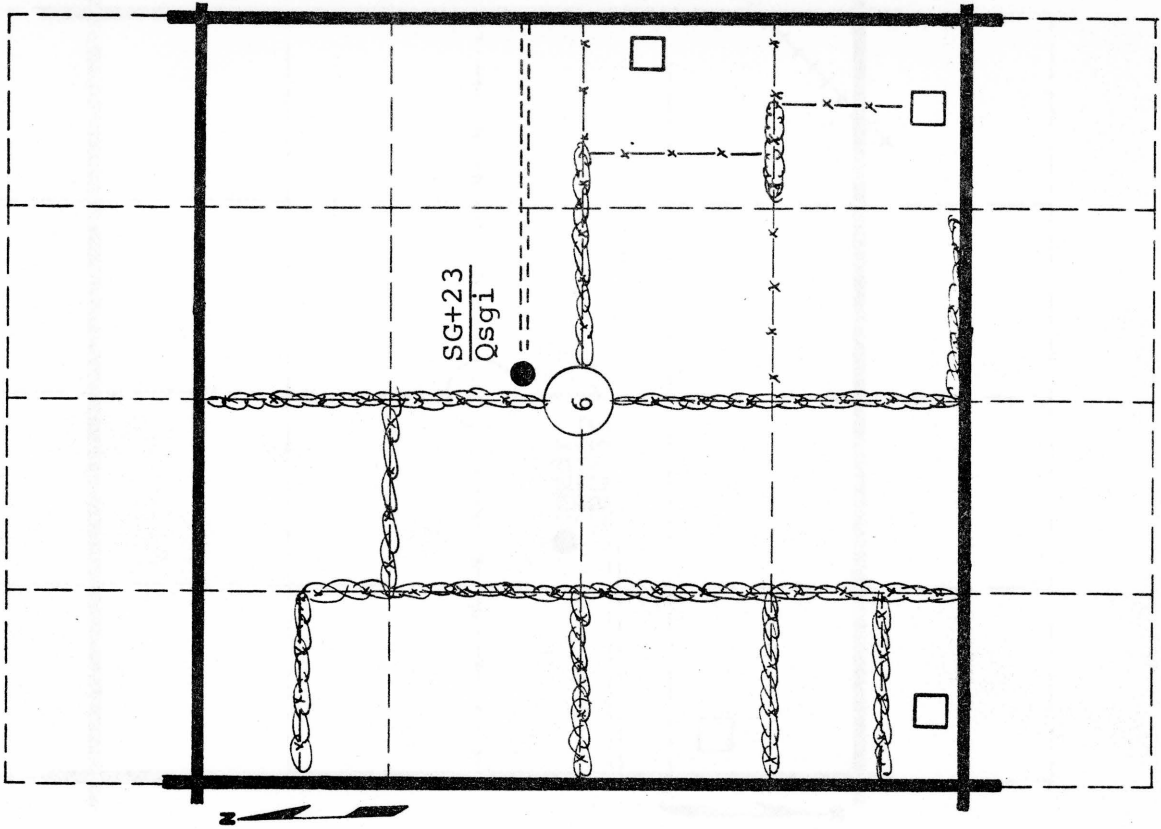
Site No. SG+23 Date March, 1966
Qsgl
 Material Sand & Gravel County Harvey
 Location SW 1/4 NE 1/4 Sec. 6 Twp. 24S Range 3W
 Owner Laura Simonds name address Protection, Kansas
 Nature of Deposit Wet Accessibility Good
 Status of Site Open site; sampled

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	1	3/8	4	8	16	30					50
			0	1	5	17	39	69	90	97	99		4.17			

CORRELATION DATA

Geological Age Quaternary
 Geological Source Grand Island Formation
 Material Similar to Material reported on SHC form 619 #40-9.
 Specific Gravity (sat.) 2.60 (Dry)
 Los Angeles Wear 34.5 (D)
 Absorption 0.40 Soundness 0.98
 Wt. Cu.Ft. 113.08 Str. Ratio 1-day 1.59, 3-day 1.60
 Remarks _____



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

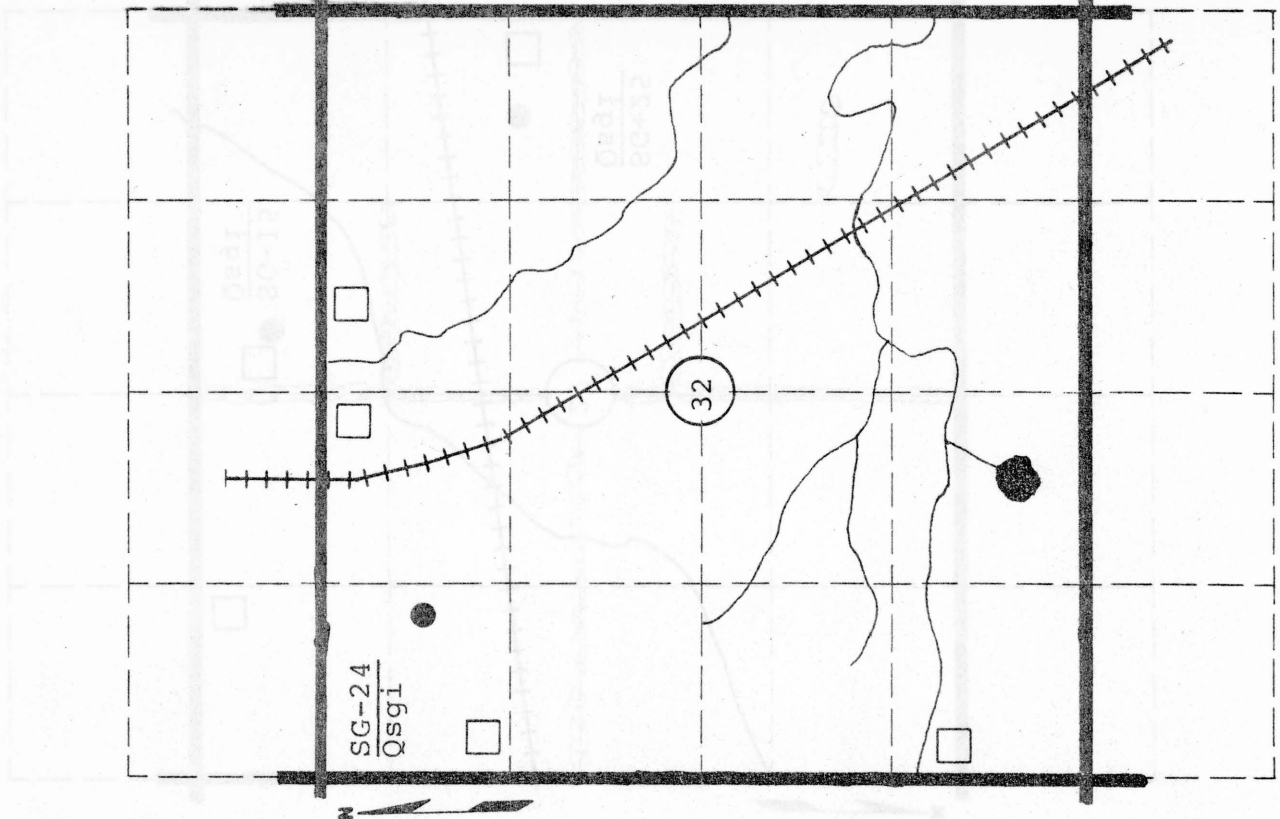
Site No. SG-24 Date March, 1966
Qsg1
 Material Sand & Gravel County Harvey
 Location NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 32 Twp. 23S Range 3W
 Owner See Remarks Below address
 Nature of Deposit Dry Accessibility Fair
 Status of Site Open site; sampled

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.			
				1/2	3/4	1	2	4	8	16					30	50	100
				0	0	2	10	30	61	85	95	97	2.3	3.82			

CORRELATION DATA

Geological Age Quaternary
 Geological Source Grand Island Formation
 Material Similar To Material reported on SHC Lab. Sheet
 No. 58112
 Specific Gravity (Sat.) 2.62 (Dry)
 Los Angeles Wear 34.8 (D)
 Absorption _____ Soundness _____
 Wt. Cu.Ft. 108.1 Str. Ratio 1-day 1.67, 3-day 1.52
 Remarks Georgianna Routledge 301 E. 12th Hutchinson,
Kansas



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

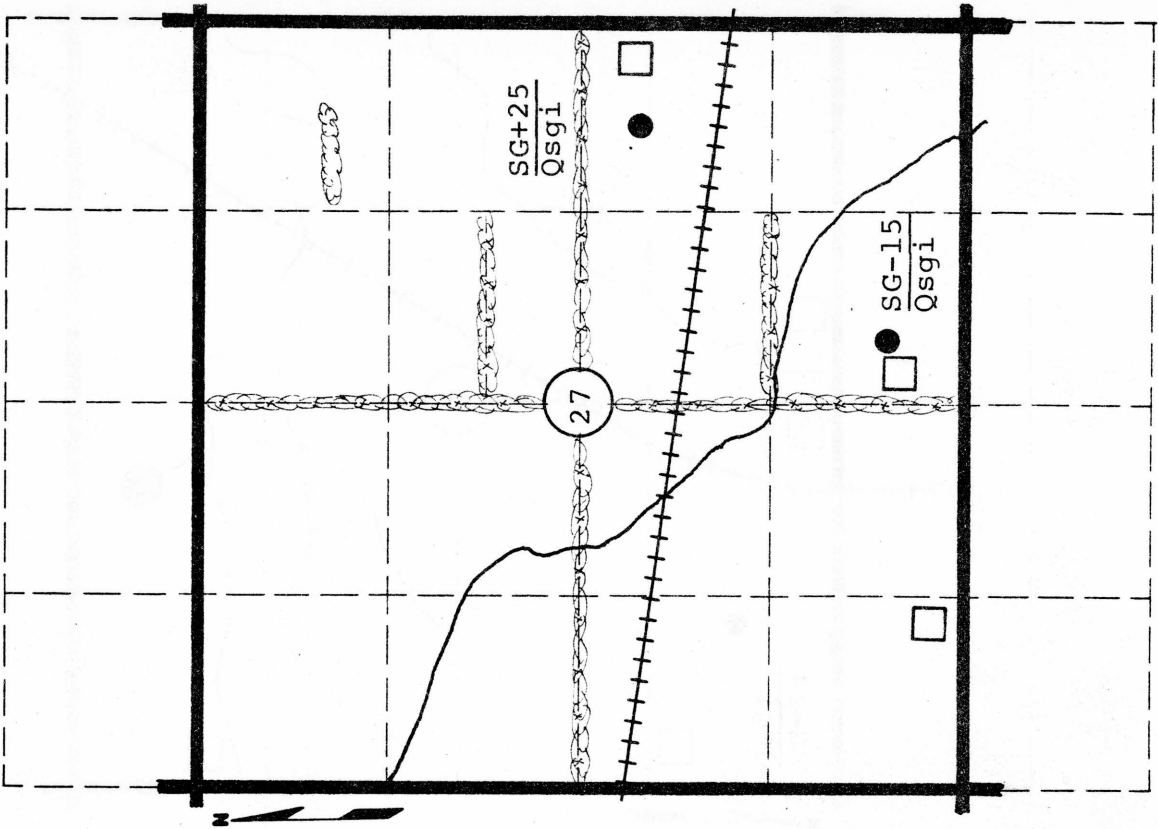
Site No. SG+25 Date March, 1966
Qsg1
 Material Sand & Gravel County Harvey
 Location NE 1/4 SE 1/4 Sec. 27 Twp. 23S Range 3W
 Owner Airway Concrete Inc. 200 W. 10th, Wichita, Kansas
 Nature of Deposit Wet name address
 Accessibility Good
 Status of Site Open site; sampled

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	
				0	0	1	4	15	33	60	88	99	49	3.00			

CORRELATION DATA

Geological Age Quaternary
 Geological Source Grand Island Formation
 Material Similar To _____
 Specific Gravity (Sat.) 2.60 (Dry) 2.59
 Los Angeles Wear 34.1 (D)
 Absorption .40 Soundness .99
 Wt. Cu.ft. 109.77 1-day 1.43, 3-day 1.44
 Remarks _____

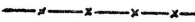

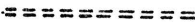















Scale: 1" = 1/4 Mile

APPENDIX III

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

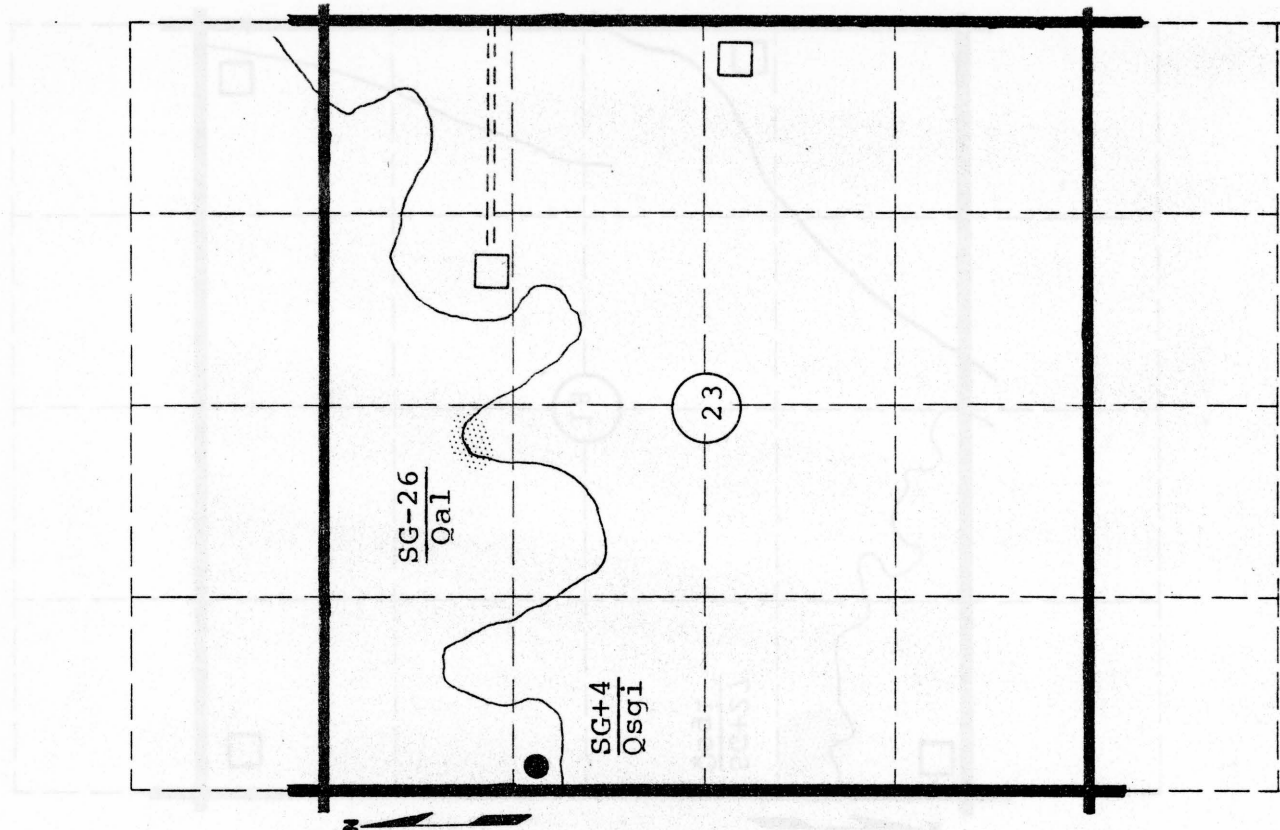
Site No. SG-26 Date March, 1966
Qa1
 Material Sand & Gravel County Harvey
 Location NW 1/4 Sec. 23 Twp. 24S Range 2W
 Owner John Stutzman R. R. 2, Halstead, Kansas
 name address
 Nature of Deposit Wet Accessibility Fair
 Status of Site Prospective site; not sampled

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.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 _____



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

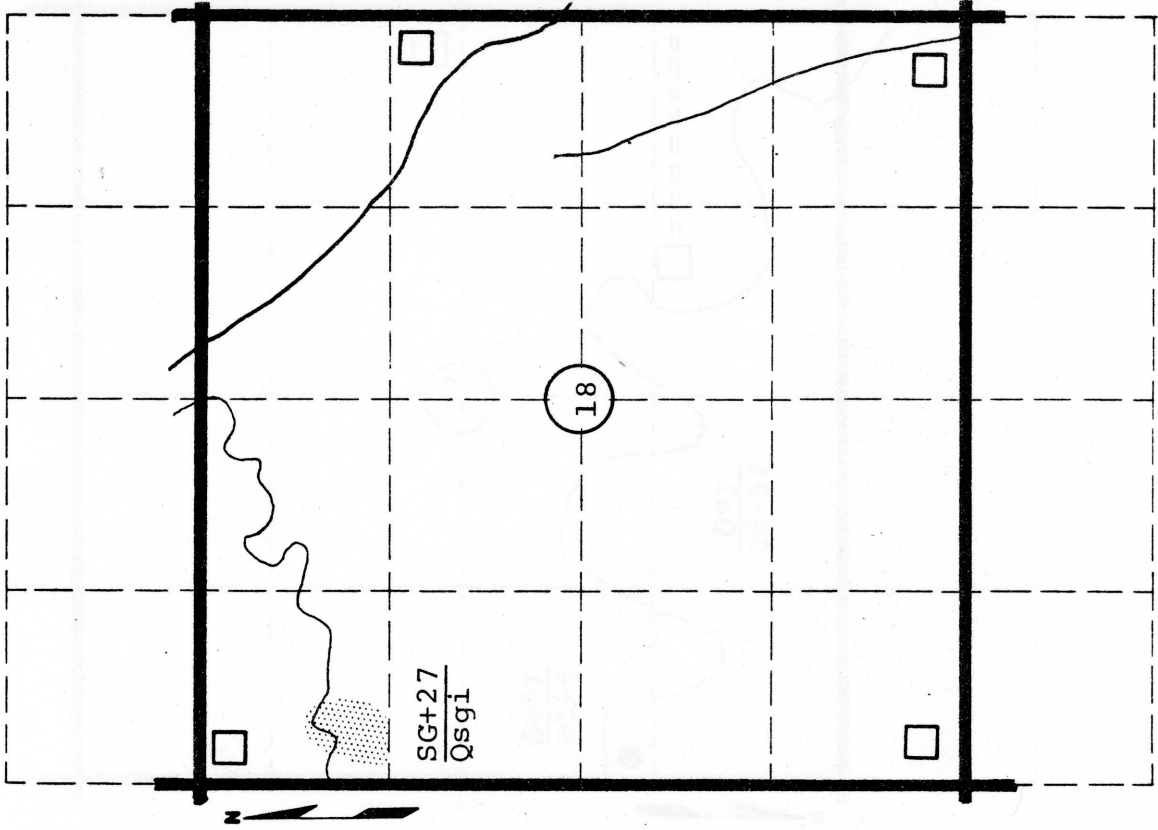
Site No. SG+27 Date March, 1966
Qsgi
 Material Sand & Gravel County Harvey
 Location NW 1/4 Sec. 18 Twp. 23S Range 1W
 Owner Dewey Unruh et al. R.R. 1, Halstead, Kansas
 name address
 Nature of Deposit Dry Accessibility Good
 Status of Site Prospective site; not sampled

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	1	3/8	4	8	16					30	50	100		

CORRELATION DATA

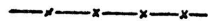

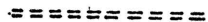













Geological Age Quaternary
 Geological Source Grand Island Formation
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry)
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu.Ft. _____ Str. Ratio _____
 Remarks _____



APPENDIX IV

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

LEGEND

	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

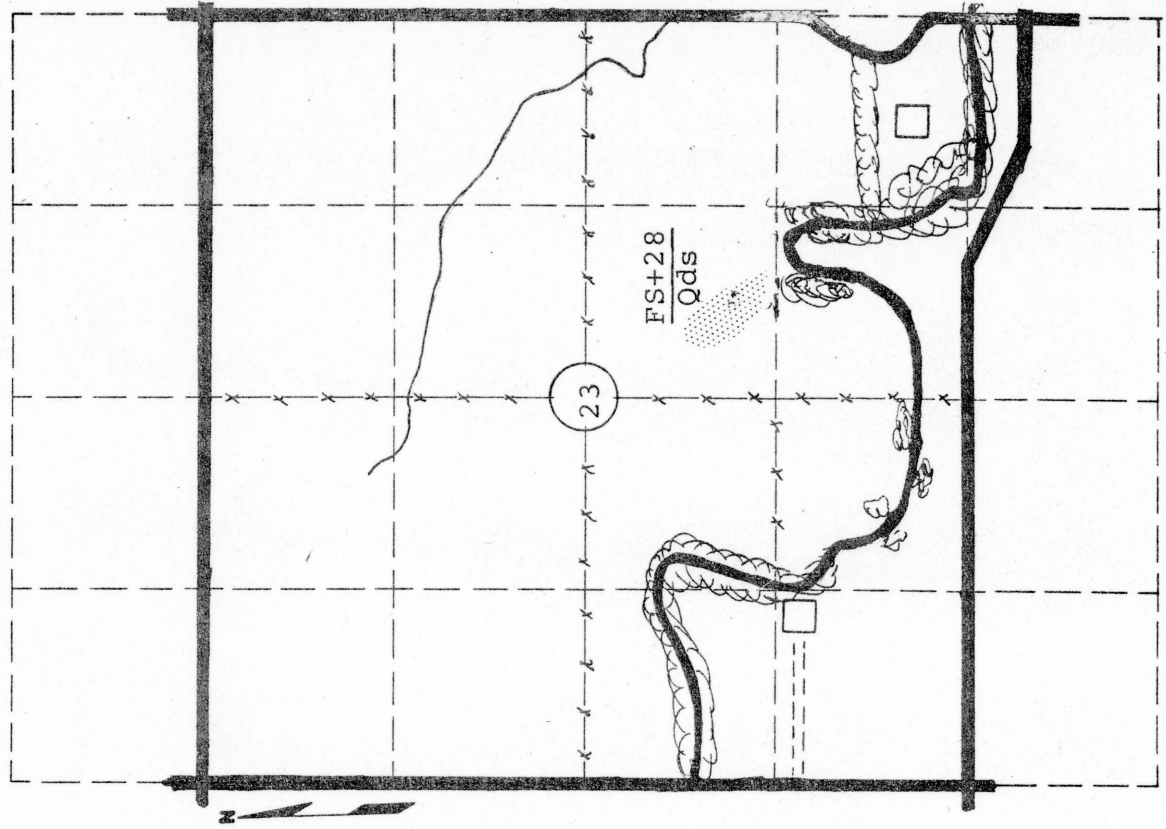
Site No. FS+28 Date March, 1966
Qds
 Material Fine Sand County Harvey
 Location SE 1/4 Sec. 23 Twp. 22S Range 3W
 Owner Mary Strueby et al. R.R. 2, Newton, Kansas
name address
 Nature of Deposit Dry Accessibility Fair
 Status of Site Prospective site; sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of over-Burden	Depth of Material	Percent Retained							Wash 200	G.F.	L.L.	P.I.		
				1/2	3/4	3/8	4	8	16	30					50	100
				0	0	0	0	0	0	0	20	62	14			

CORRELATION DATA

Geological Age Quaternary
 Geological Source Dune Sand
 Material Similar To Material reported on SHC form 619 #40-7.
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu.Ft. _____ Str. Ratio _____
 Remarks _____



Scale: 1" = 1/4 Mile