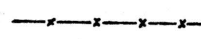
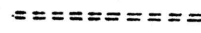
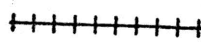
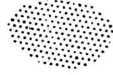
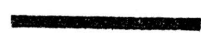
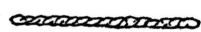


APPENDIX I

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

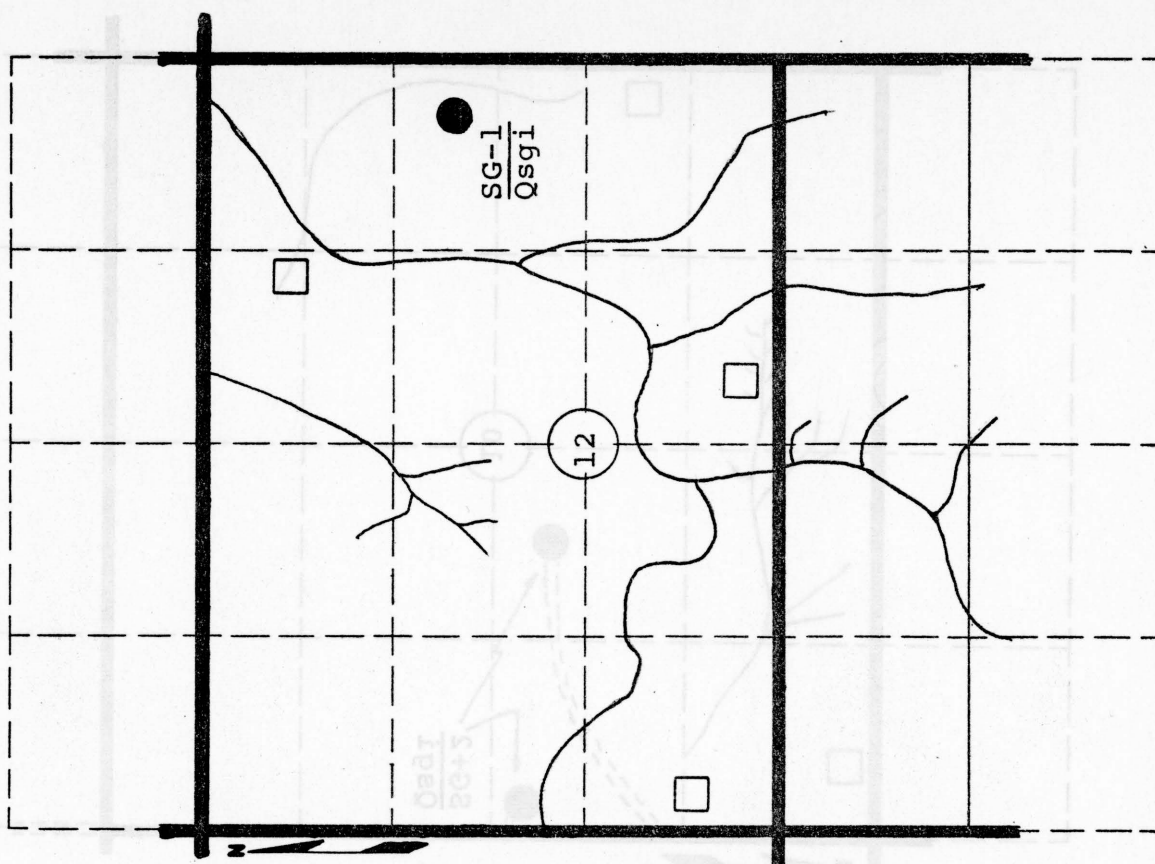
	Fence		Farm site
	Trail or lane		Open materials site
	Railroad		Prospective materials site
	Road		Center of section
	Hedge or trees		Cemetery
	Major streams		School
	Intermittent streams		Church
	Pond or lake		Town or city

MATERIAL SURVEY REPORT

EXPLORATION DATA

CORRELATION DATA

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



MATERIAL SURVEY REPORT

SG+2
Qsg1

Site No. _____ Date February, 1967

Material Sand & Gravel County Pratt

Location SW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 10 Twp. 27S Range 12W

Owner _____ name _____ address _____

Mature of Deposit Dry Good _____

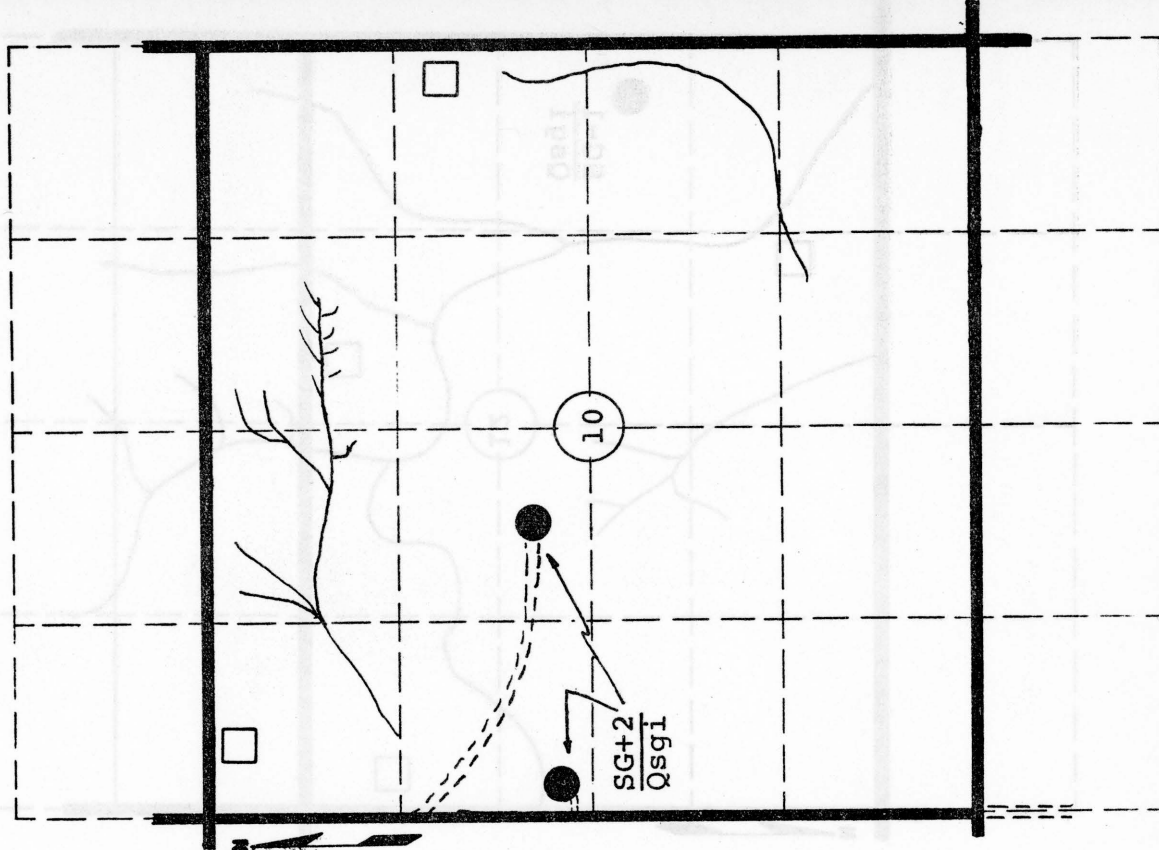
Status of Site Open site; not sampled

EXPLORATION DATA

[illegible]

CORRELATION DATA

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



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

MATERIAL SURVEY REPORT

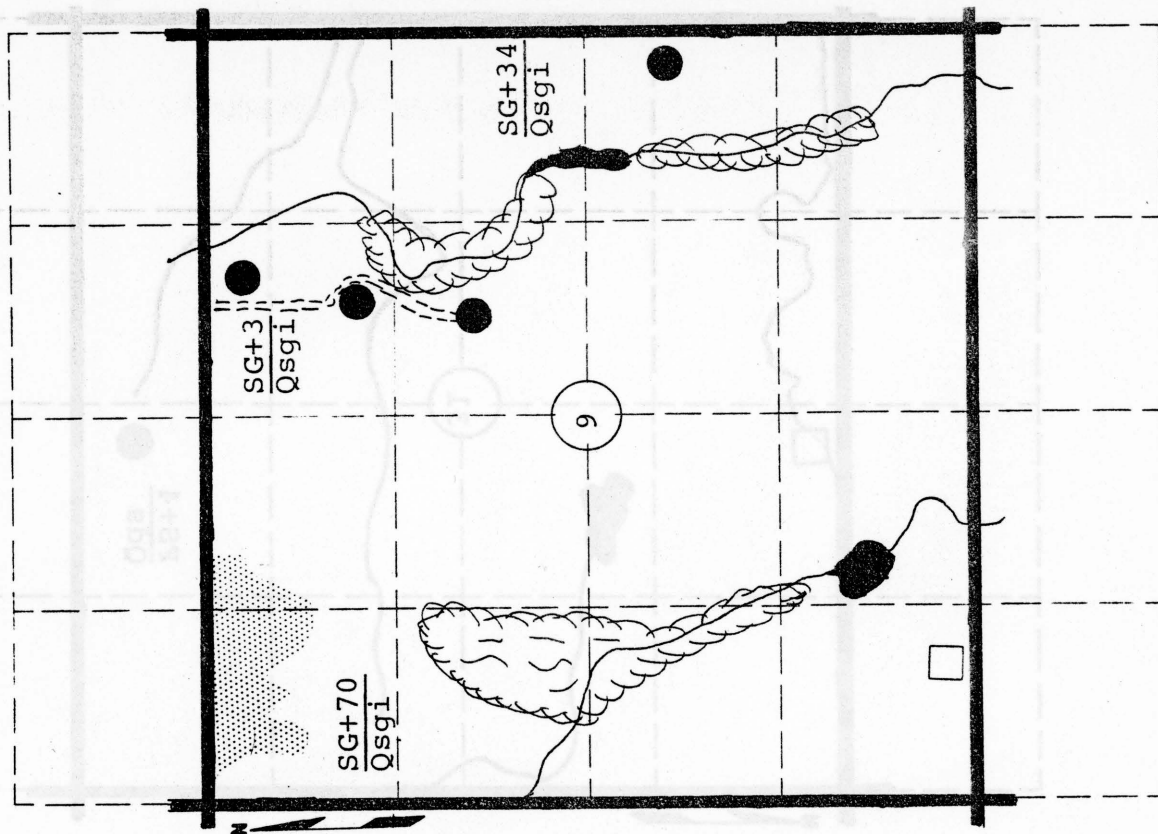
SG+3
Qsg1
Site No. _____ Date February, 1967
Material Sand & Gravel County Pratt
NE $\frac{1}{4}$ Sec. 9 Twp. 27S Range 12W
Location _____
Owner J. W. Hoeme. name _____
Dry _____
Nature of Deposit _____ Accessibility Good
address _____
Status of Site Open site; not sampled

EXPLORATION DATA

[illegible]

CORRELATION DATA

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



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

MATERIAL SURVEY REPORT

February, 1967

Site No.

Fine Sand

County -

Pratt

SE $\frac{1}{4}$ MS $\frac{1}{4}$ SW $\frac{1}{4}$

TC

265

Range	MTT
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.00
60-70	0.00
70-80	0.00
80-90	0.00
90-100	0.00

Owner	Marie Hoover	1307 2nd Ave., Dodge City, Kansas	address
-------	--------------	-----------------------------------	---------

00000

DRY

Nature of Deposit DRY Accessibility

Good.

Open site; not sampled

EXPLORATION DATA

[illegible]

CORRELATION DATA

Quaternary

Geological Age

Dune Sand

Geological Source.

Material Similar To -

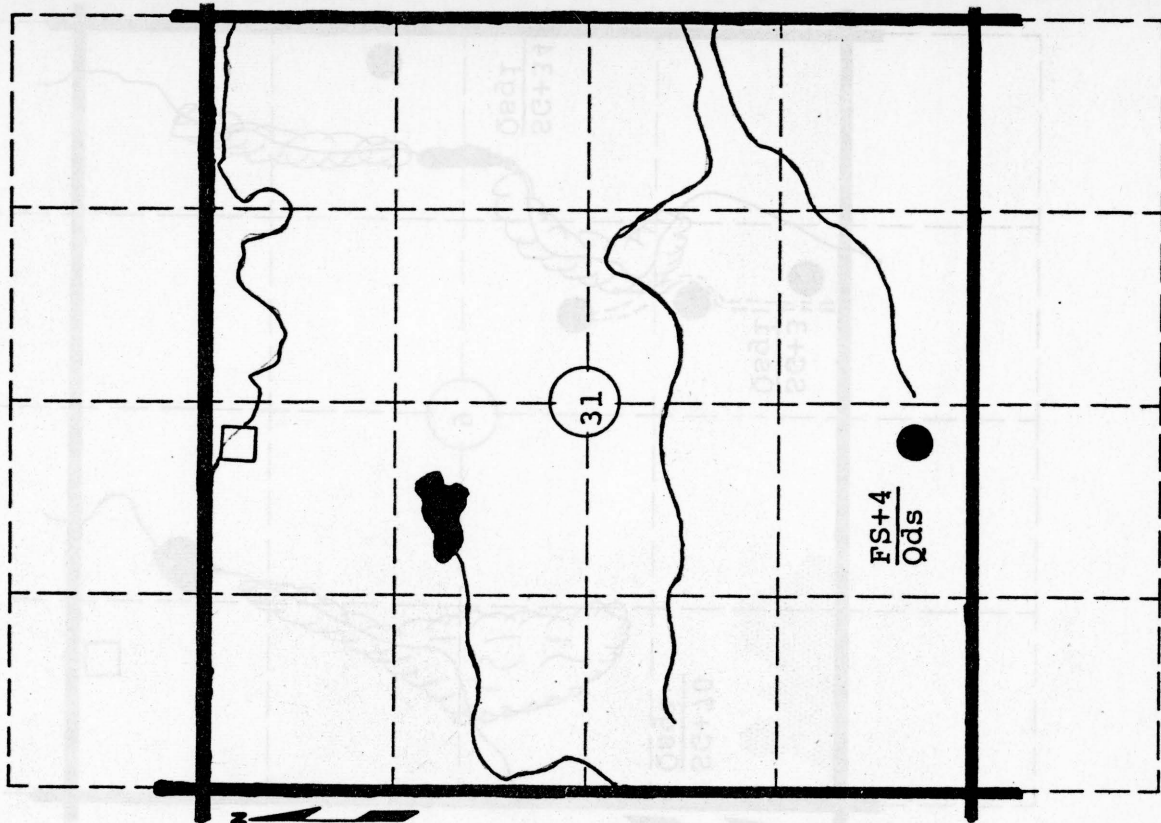
Specific Gravity (Sat.) ————— (Dry)

Los Angeles Wear -

	Absorption	Soundness
1. <i>Phragmites</i>	0.000	0.000
2. <i>Phragmites</i>	0.000	0.000
3. <i>Phragmites</i>	0.000	0.000
4. <i>Phragmites</i>	0.000	0.000
5. <i>Phragmites</i>	0.000	0.000
6. <i>Phragmites</i>	0.000	0.000
7. <i>Phragmites</i>	0.000	0.000
8. <i>Phragmites</i>	0.000	0.000
9. <i>Phragmites</i>	0.000	0.000
10. <i>Phragmites</i>	0.000	0.000
11. <i>Phragmites</i>	0.000	0.000
12. <i>Phragmites</i>	0.000	0.000
13. <i>Phragmites</i>	0.000	0.000
14. <i>Phragmites</i>	0.000	0.000
15. <i>Phragmites</i>	0.000	0.000
16. <i>Phragmites</i>	0.000	0.000
17. <i>Phragmites</i>	0.000	0.000
18. <i>Phragmites</i>	0.000	0.000
19. <i>Phragmites</i>	0.000	0.000
20. <i>Phragmites</i>	0.000	0.000
21. <i>Phragmites</i>	0.000	0.000
22. <i>Phragmites</i>	0.000	0.000
23. <i>Phragmites</i>	0.000	0.000
24. <i>Phragmites</i>	0.000	0.000
25. <i>Phragmites</i>	0.000	0.000
26. <i>Phragmites</i>	0.000	0.000
27. <i>Phragmites</i>	0.000	0.000
28. <i>Phragmites</i>	0.000	0.000
29. <i>Phragmites</i>	0.000	0.000
30. <i>Phragmites</i>	0.000	0.000
31. <i>Phragmites</i>	0.000	0.000
32. <i>Phragmites</i>	0.000	0.000
33. <i>Phragmites</i>	0.000	0.000
34. <i>Phragmites</i>	0.000	0.000
35. <i>Phragmites</i>	0.000	0.000
36. <i>Phragmites</i>	0.000	0.000
37. <i>Phragmites</i>	0.000	0.000
38. <i>Phragmites</i>	0.000	0.000
39. <i>Phragmites</i>	0.000	0.000
40. <i>Phragmites</i>	0.000	0.000
41. <i>Phragmites</i>	0.000	0.000
42. <i>Phragmites</i>	0.000	0.000
43. <i>Phragmites</i>	0.000	0.000
44. <i>Phragmites</i>	0.000	0.000
45. <i>Phragmites</i>	0.000	0.000
46. <i>Phragmites</i>	0.000	0.000
47. <i>Phragmites</i>	0.000	0.000
48. <i>Phragmites</i>	0.000	0.000
49. <i>Phragmites</i>	0.000	0.000
50. <i>Phragmites</i>	0.000	0.000
51. <i>Phragmites</i>	0.000	0.000
52. <i>Phragmites</i>	0.000	0.000
53. <i>Phragmites</i>	0.000	0.000
54. <i>Phragmites</i>	0.000	0.000
55. <i>Phragmites</i>	0.000	0.000
56. <i>Phragmites</i>	0.000	0.000
57. <i>Phragmites</i>	0.000	0.000
58. <i>Phragmites</i>	0.000	0.000
59. <i>Phragmites</i>	0.000	0.000
60. <i>Phragmites</i>	0.000	0.000
61. <i>Phragmites</i>	0.000	0.000
62. <i>Phragmites</i>	0.000	0.000
63. <i>Phragmites</i>	0.000	0.000
64. <i>Phragmites</i>	0.000	0.000
65. <i>Phragmites</i>	0.000	0.000
66. <i>Phragmites</i>	0.000	0.000
67. <i>Phragmites</i>	0.000	0.000
68. <i>Phragmites</i>	0.000	0.000
69. <i>Phragmites</i>	0.000	0.000
70. <i>Phragmites</i>	0.000	0.000
71. <i>Phragmites</i>	0.000	0.000
72. <i>Phragmites</i>	0.000	0.000
73. <i>Phragmites</i>	0.000	0.000
74. <i>Phragmites</i>	0.000	0.000
75. <i>Phragmites</i>	0.000	0.000
76. <i>Phragmites</i>	0.000	0.000
77. <i>Phragmites</i>	0.000	0.000
78. <i>Phragmites</i>	0.000	0.000
79. <i>Phragmites</i>	0.000	0.000
80. <i>Phragmites</i>	0.000	0.000
81. <i>Phragmites</i>	0.000	0.000
82. <i>Phragmites</i>	0.000	0.000
83. <i>Phragmites</i>	0.000	0.000
84. <i>Phragmites</i>	0.000	0.000
85. <i>Phragmites</i>	0.000	0.000
86. <i>Phragmites</i>	0.000	0.000
87. <i>Phragmites</i>	0.000	0.000
88. <i>Phragmites</i>	0.000	0.000
89. <i>Phrag</i>		

Wt. Cu.Ft. _____ Str. Ratio _____

Wt. Cu.Ft. _____ Str. Ratio _____
Site location on Plate II



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

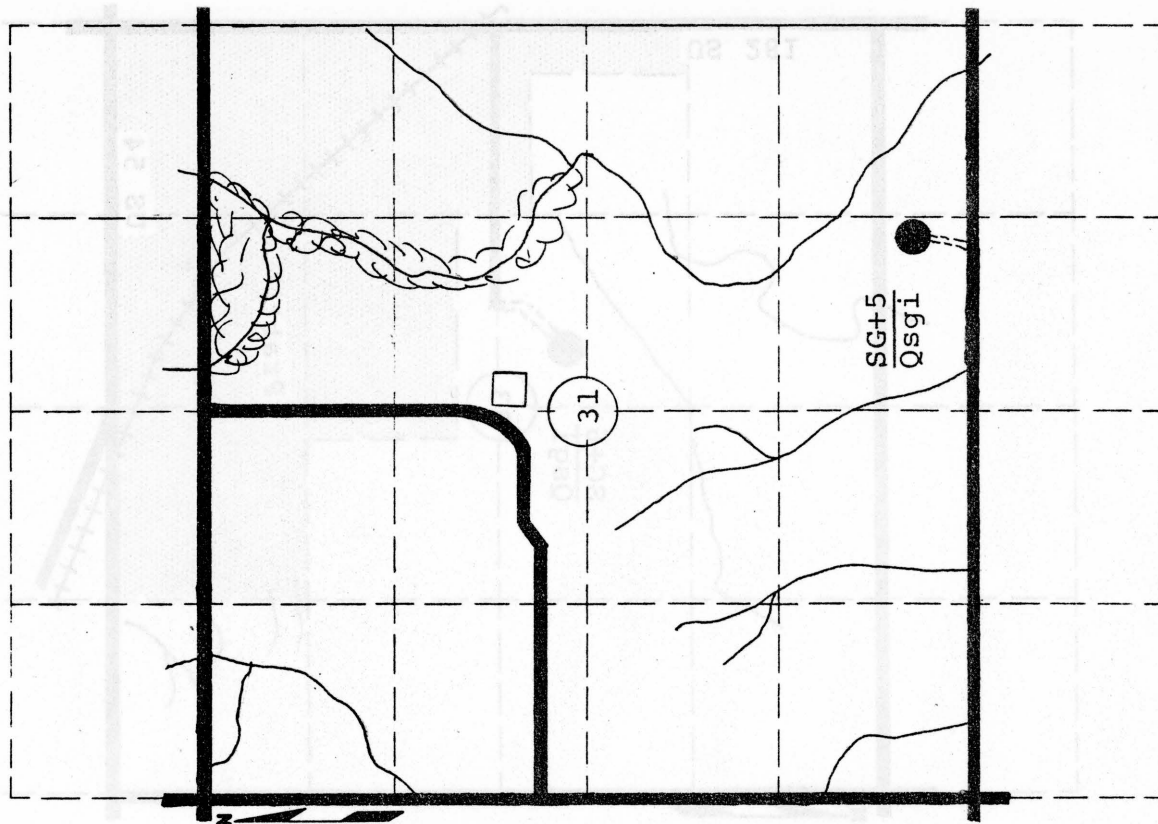
MATERIAL SURVEY REPORT

EXPLORATION DATA

[illegible]

CORRELATION DATA

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



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

$$\frac{SG+6}{QSGi}$$
[illegible]

CORRELATION DATA

Quaternary

Grand Island Formation

Material Similar To _____

Specific Gravity (sat.) _____ (Dry) _____

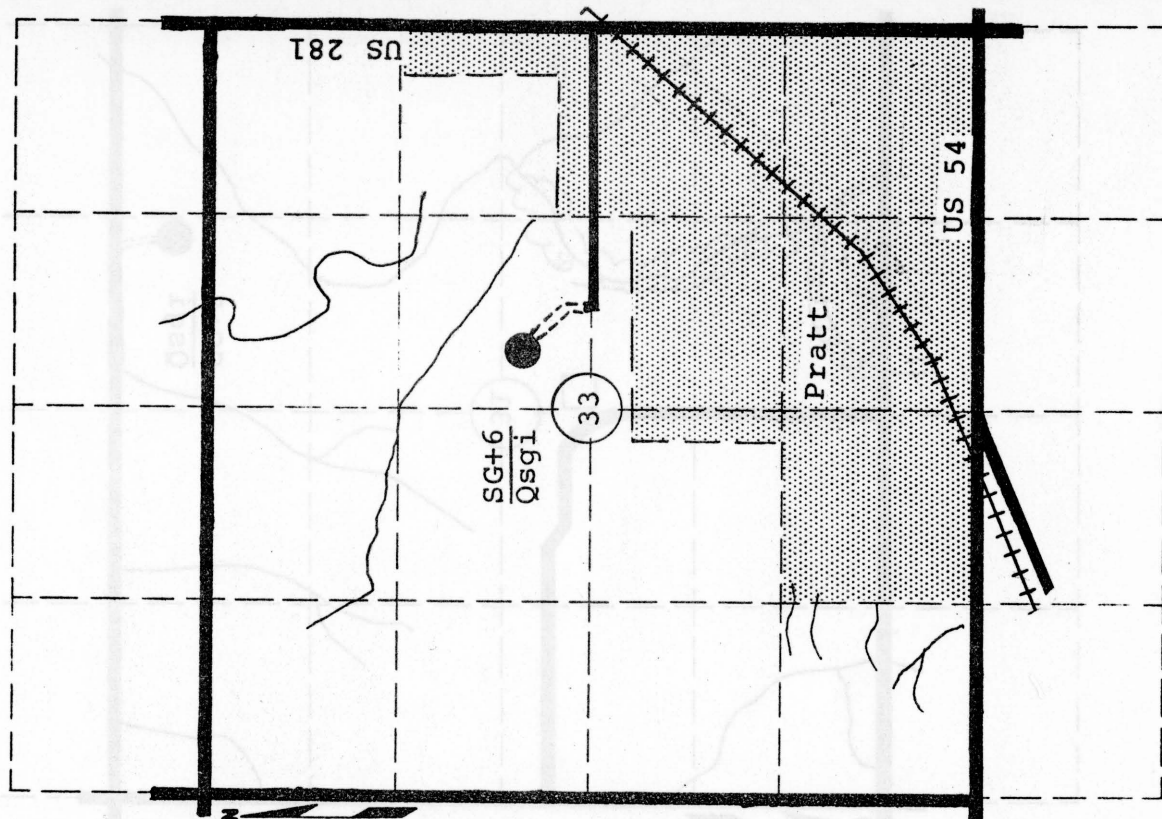
Los Angeles Wear _____

Absorption _____ Soundness _____

Wt. Cu.Ft. _____ Str. Ratio _____

Remarks

Site location on Plate III



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

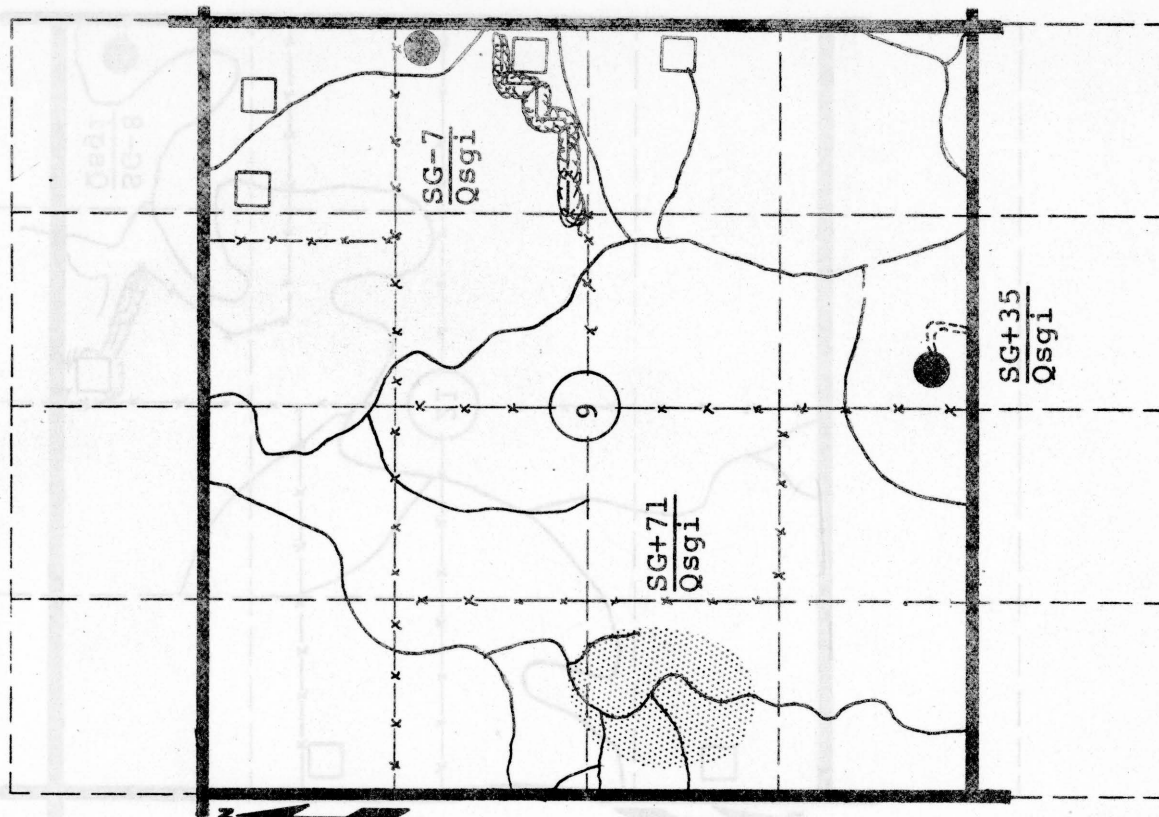
MATERIAL SURVEY REPORT

EXPLORATION DATA

[illegible]

CORRELATION DATA

Quaternary
Geological Age
Grand Island Formation
Geological Source
Material Similar To
Specific Gravity (Sat.) (Dry)
Los Angeles Near
Absorption Soundness
Wt. Cu.ft. Str. Ratio
Site location on Plate III
Remarks



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

MATERIAL SURVEY REPORT

SG-8
Qsg1

Site No. _____ Date February, 1967

Material Sand & Gravel County Pratt

SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 21 Twp. 28S Range 14W

Location _____

Owner Edith Hatfield, R. R. 1, Cullison, Kansas address _____

Nature of Deposit Dry name Good Accessibility _____

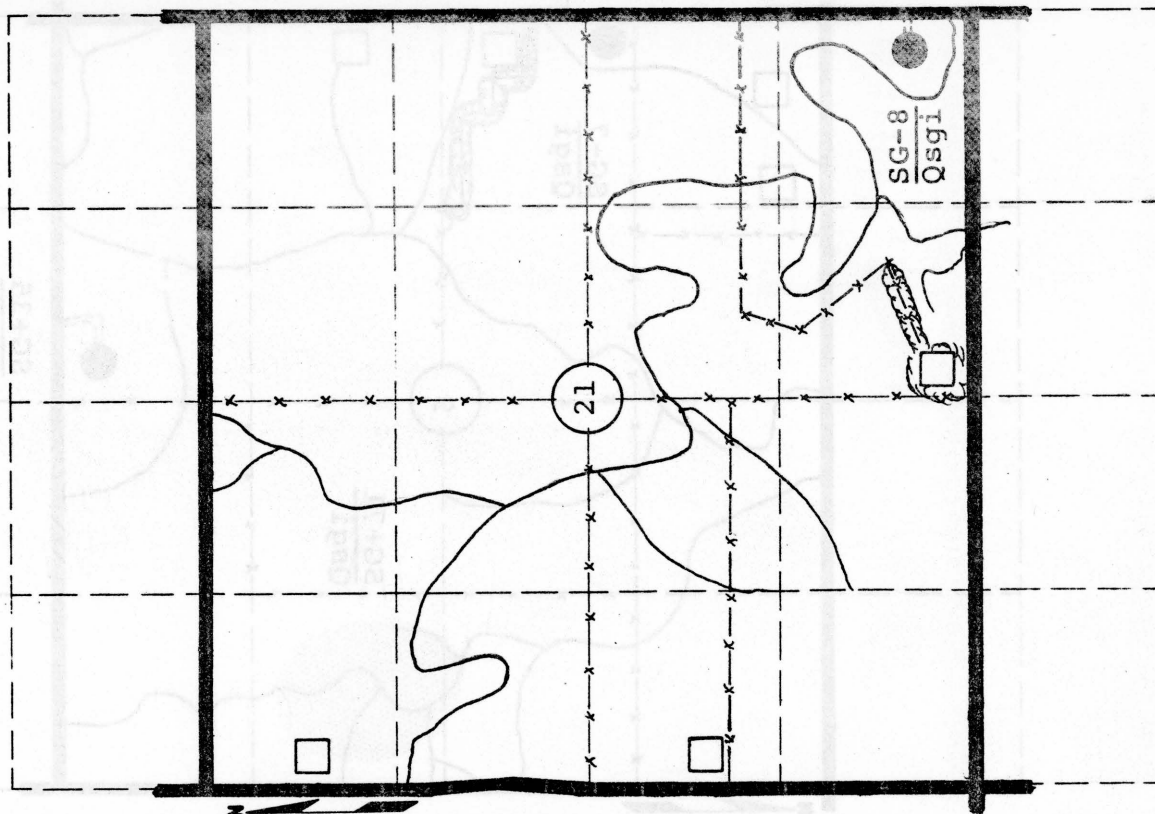
Status of Site Open site; not sampled

EXPLORATION DATA

[illegible]

CORRELATION DATA

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



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

MATERIAL SURVEY REPORT

SG+10
Qal

Site No. _____ Date February, 1967

Material Sand & Gravel County Pratt

Location SE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 4 Twp. 28S Range 13W

Owner Gale Taber etux. 315 S. High Pratt, Kansas
name address

Dry Good

Nature of Deposit _____ Accessibility _____

Status of Site Open site; not sampled

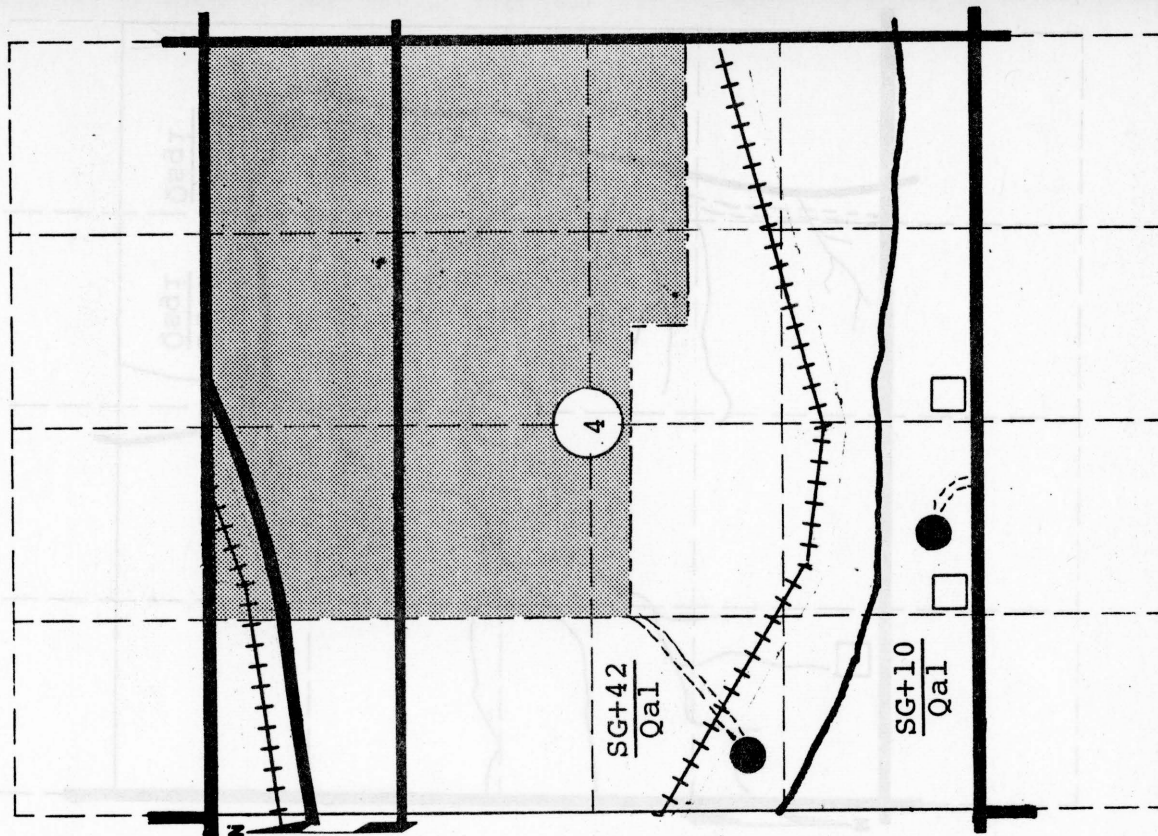
EXPLORATION DATA

[illegible]

CORRELATION DATA

Quaternary
Geological Age _____
Alluvium
Geological Source _____
Material Similar To _____

Specific Gravity (Sat.) _____ (Dry) _____
Los Angeles Wear _____
Absorption _____ Soundness _____
Wt. Cu.ft. _____ Str. Ratio _____
Site location on Plate III
Remarks _____



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

MATERIAL SURVEY REPORT

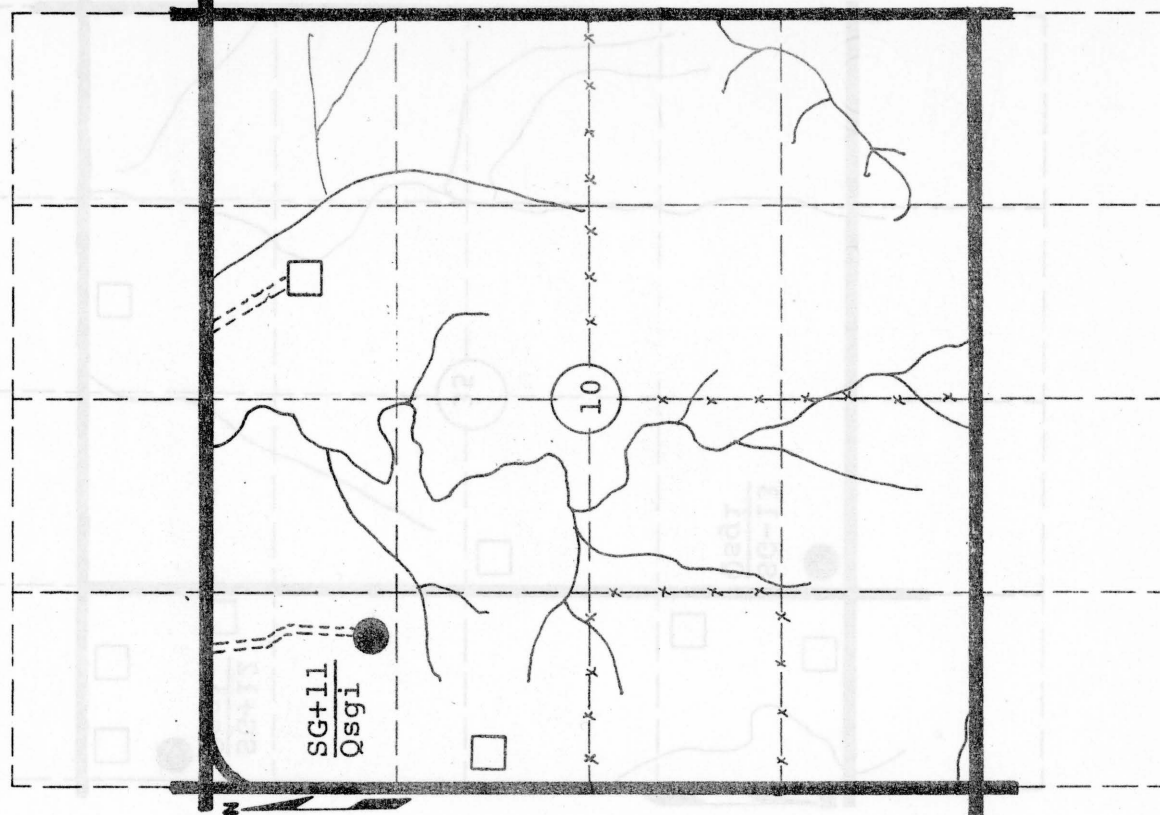
SG-11
Qsgi
Date February, 1967
Site No. _____
Material Sand & Gravel
County Pratt
Location NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 10 Twp. 28S Range 13W
City of Pratt
Owner _____
name
Dry
Mature of Deposit _____
Accessibility Good
Open site; not sampled
Status of Site _____

EXPLORATION DATA

[illegible]

CORRELATION DATA

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



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

MATERIAL SURVEY REPORT

SG+12
Qsg1

Site No. _____ Date February, 1967

Material Sand & Gravel County Pratt

SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 35 Twp. 27S Range 13W

Location Frank Daskocil RFD 1, Pratt, Kansas

Owner Frank Daskocil name Wet address Poor

Mature of Deposit _____ Accessibility _____

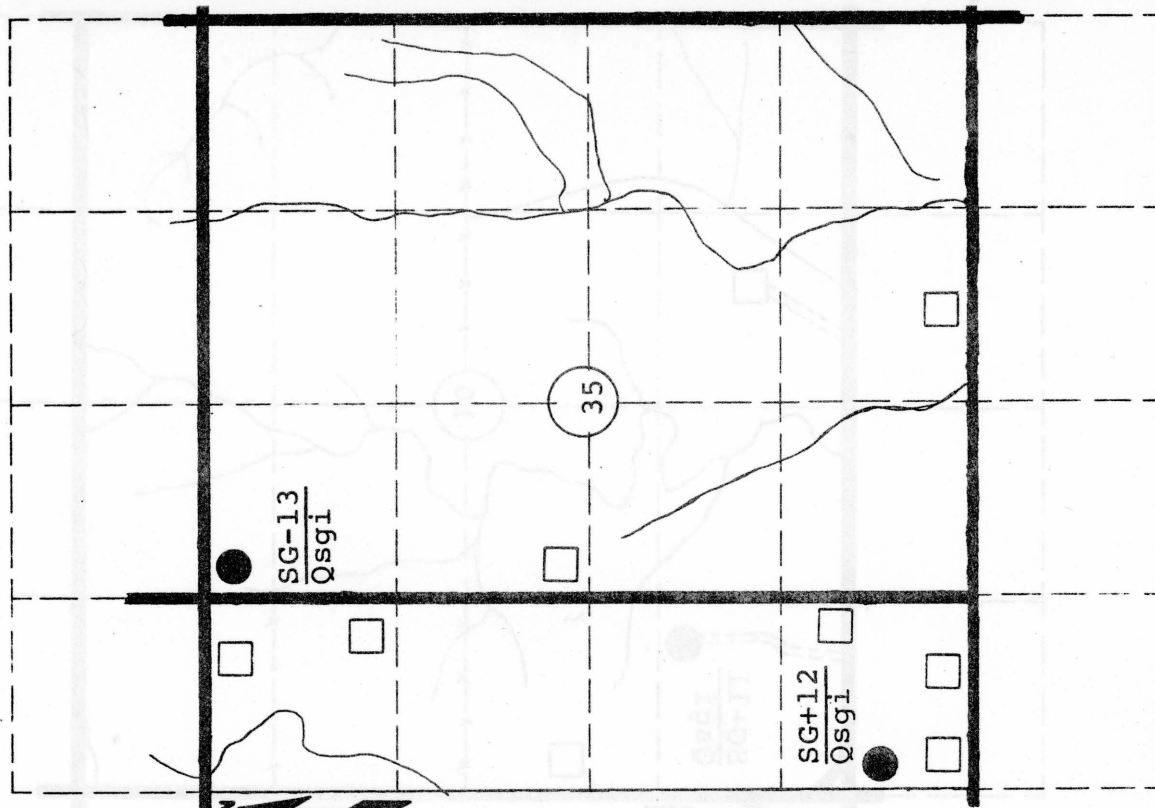
Status of Site Open site; not sampled

EXPLORATION DATA

[illegible]

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 _____
Site location on Plate IV _____
Remarks _____



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

MATERIAL SURVEY REPORT

SG-13
Qsgi

Site No. _____ Date February, 1967

Material Sand & Gravel County Pratt

Location NE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 35 Twp. 27S Range 13W

Owner _____ City of Pratt State of Kansas

name _____ address _____

Nature of Deposit Dry Accessibility Good

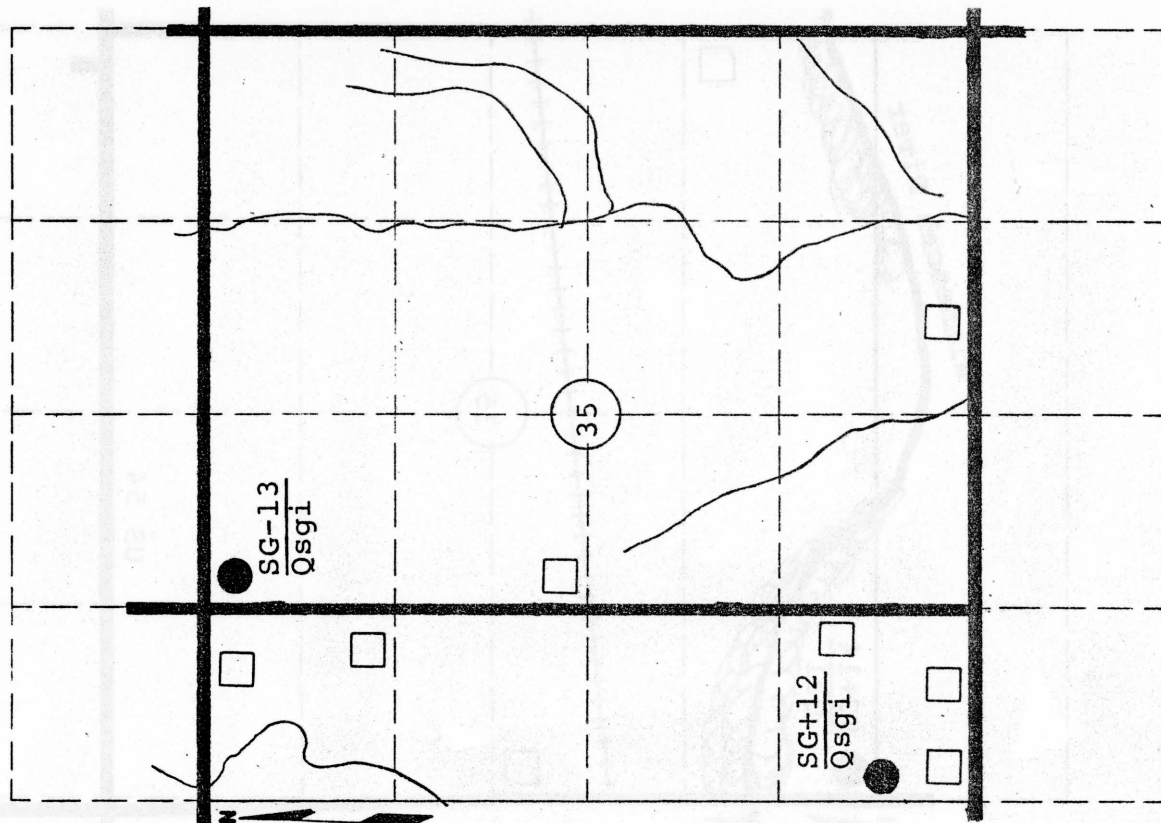
Status of Site Open site; not sampled

EXPLORATION DATA

[illegible]

CORRELATION DATA

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



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

MATERIAL SURVEY REPORT

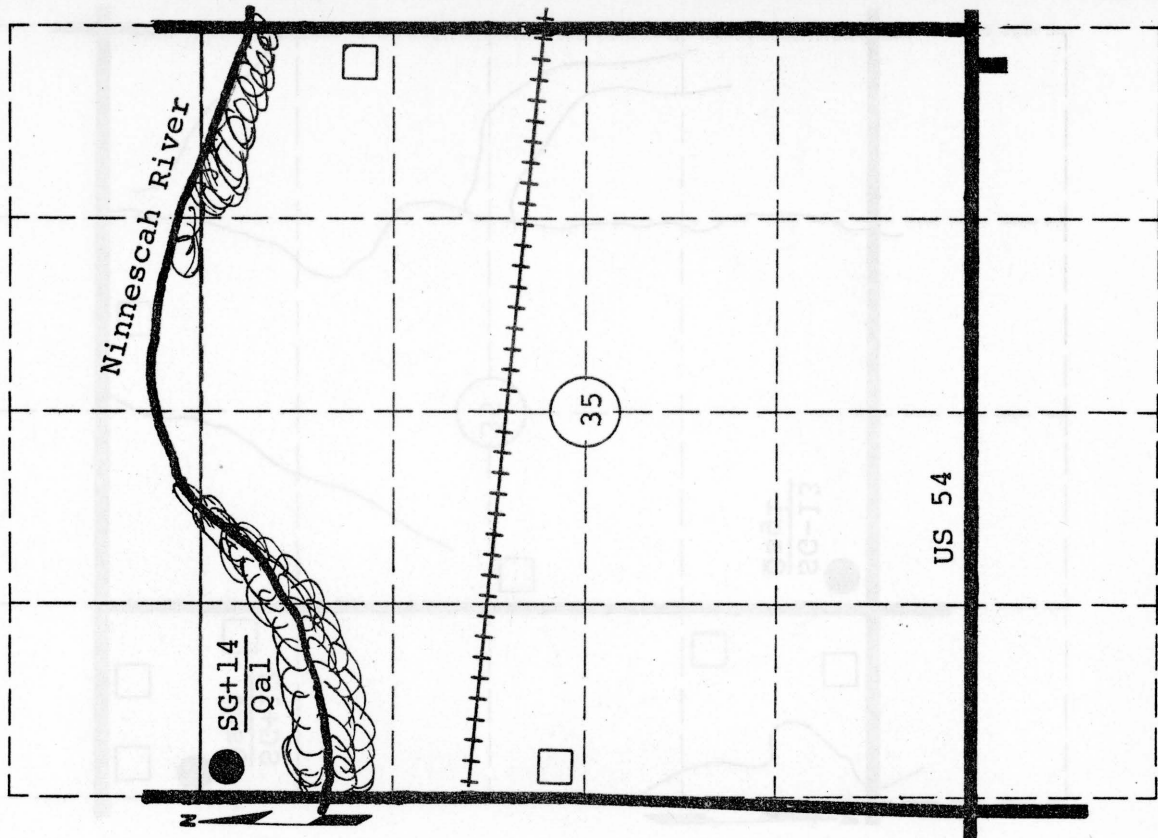
Site No. SG+14 Date February, 1967
Qal
 Material Sand & Gravel County Pratt
 Location NW $\frac{1}{4}$ Sec. 35 Twp. 27S Range 12W
 Owner Henry H. Hamm RFD 1, Pratt, Kansas
 name address
 Nature of Deposit Wet Accessibility Good
 Status of Site Open site; not sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of over-Burden	Depth of Material	Percent Retained							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 Alluvium
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry)
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu.Ft. _____ Str. Ratio _____
 Remarks Site location on Plate IV



MATERIAL SURVEY REPORT

VA+15
Qsgi

Site No. _____ Date February, 1967

Material Volcanic Ash County Pratt

Location NW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 34 Twp. 27S Range 12W

Owner Ethel Barker 208 S. Pine Pratt, Kansas

name _____ address _____

Mature of Deposit Dry Accessibility Good

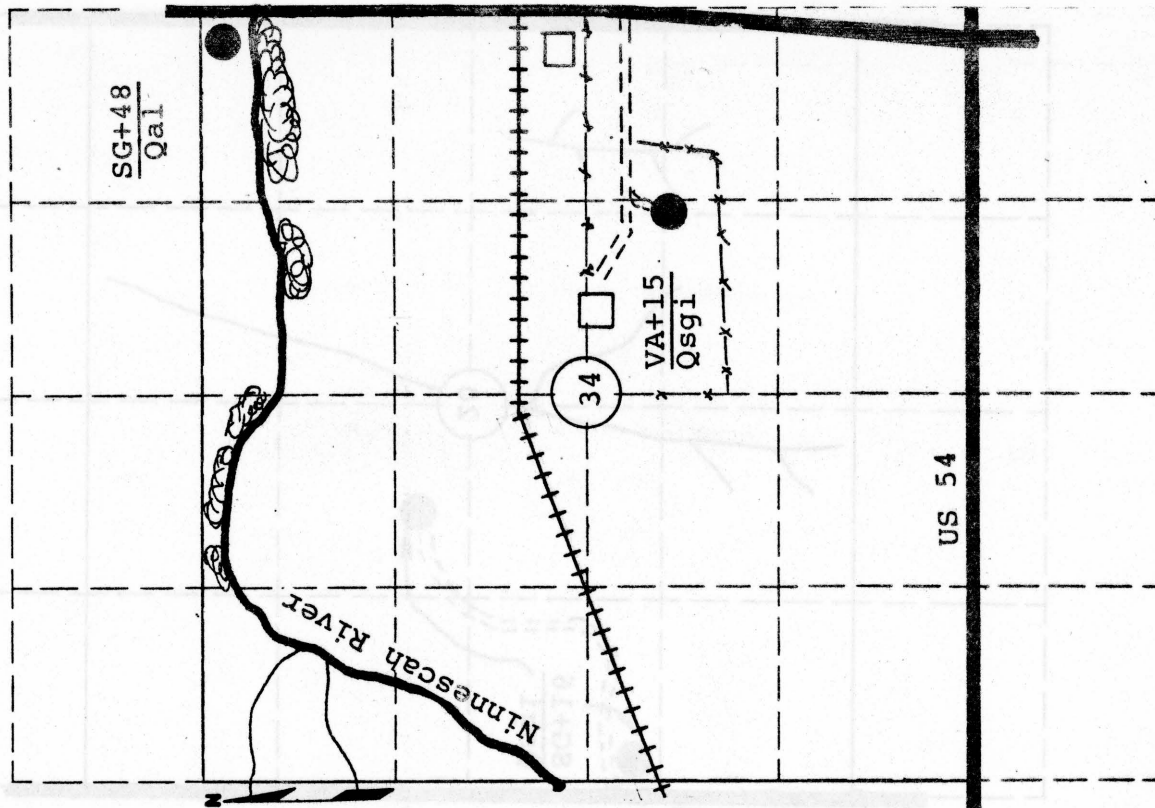
Status of site Open site; not sampled

EXPLORATION DATA

[illegible]

CORRELATION DATA

Geological Age Quaternary
Geological Source Sappa Formation
Material Similar To _____
Specific Gravity (sat.) _____ (dry) _____
Los Angeles Near _____
Absorption _____ Soundness _____
Wt. Cu. Ft. _____ Str. Ratio _____
Remarks: Site location on Plate IV. This site has ex-
pansion possibilities.



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

MATERIAL SURVEY REPORT

SG+16
Qsgi

February, 1967

Site No. _____ Date _____

Material Sand & Gravel County Pratt

W₂ _____ Sec. 20 _____ Twp. 27S _____ Range 11W _____

Location _____

Owner Ernest Swisher et ux. Greensburg, Kansas

name _____ address _____

Mature of Deposit Dry Accessibility Good

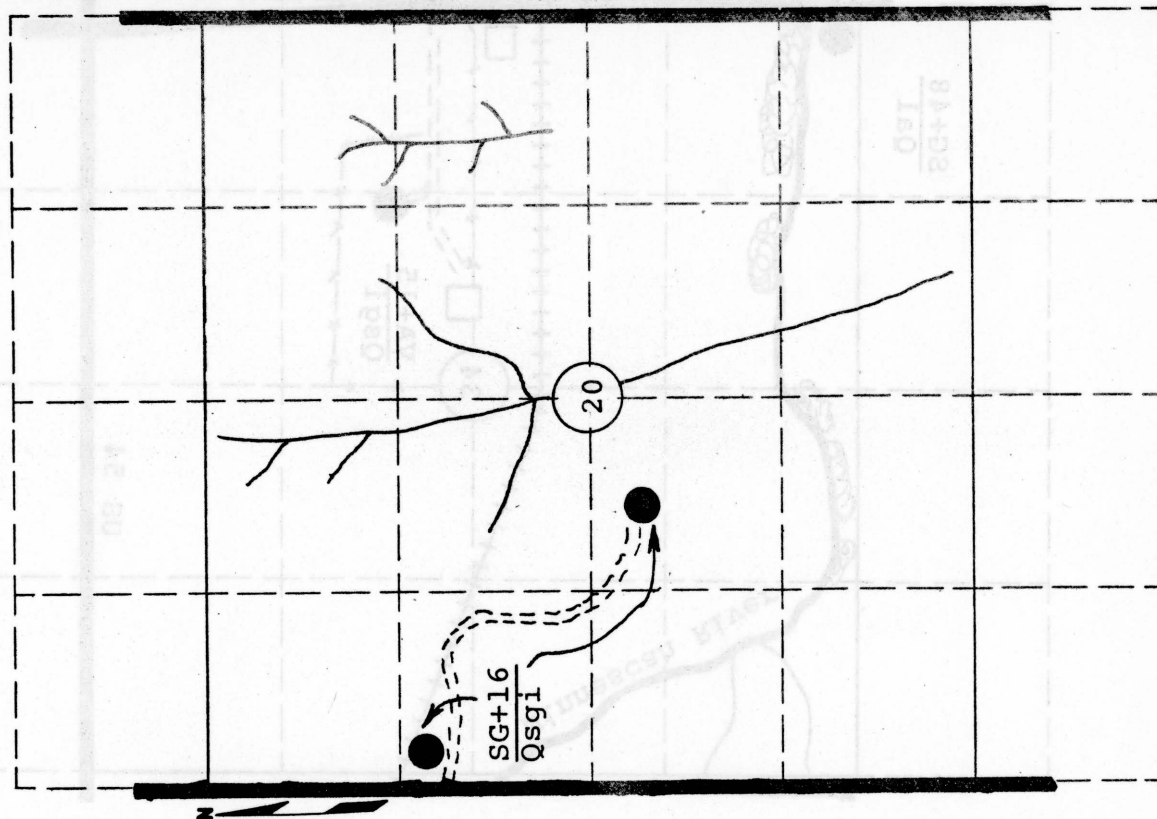
Status of Site Open site; not sampled

EXPLORATION DATA

[illegible]

CORRELATION DATA

Quaternary
Geological Age _____
Grand Island Formation
Geological Source _____
Material Similar To _____
Specific Gravity (Sat.) _____ (Dry) _____
Los Angeles Wear _____
Absorption _____ Soundness _____
Wt. Cu.Ft. _____ Str. Ratio _____
Site location on Plate IV. This site has
Remarks _____
good expansion possibilities.



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

STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

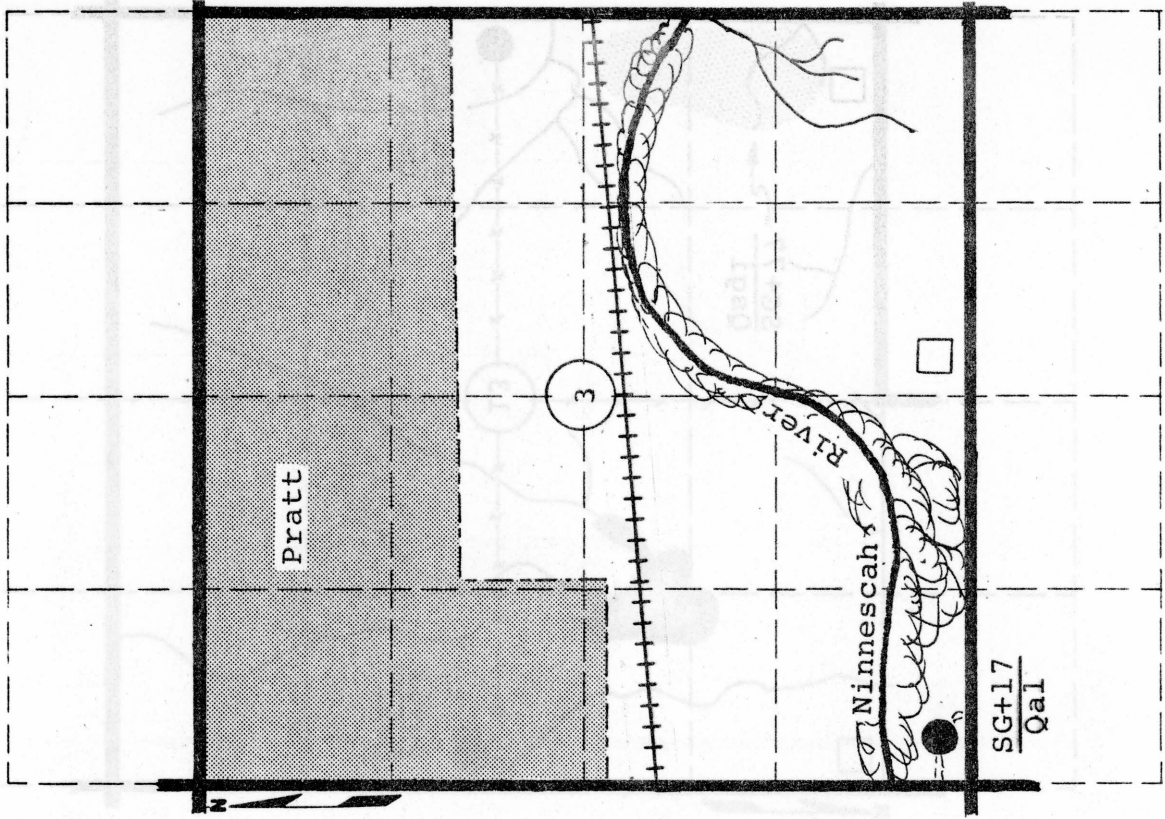
Site No. SG+17 Date February, 1967
Qal
 Material Sand & Gravel County Pratt
 Location SW 1/4 SW 1/4 Sec. 3 Twp. 28S Range 13W
 Owner M. R. Barnes Box 1011, Pratt, Kansas
 Nature of Deposit Wet Accessibility Good
 Status of Site Open site; not sampled

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 1/2	3/4	3/8	4	8	16	30				
							</							

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 Site location on Plate IV



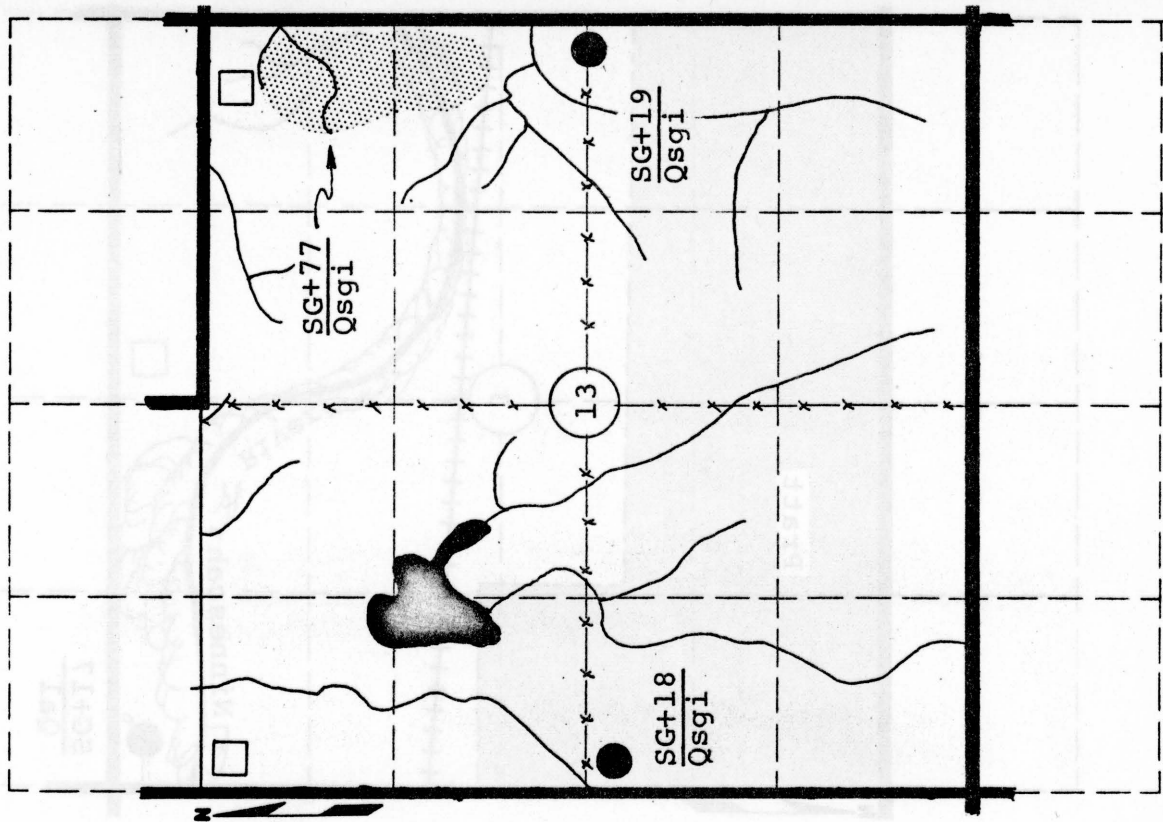
Scale: 1" = 1/4 Mile

EXPLORATION DATA

[illegible]

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 Site location on Plate IV



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

STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

SG+19
Qsgi

Site No. _____ Date February, 1967

Material Sand & Gravel County Pratt

Location E $\frac{1}{2}$ Sec. 13 Twp. 28S Range 13W

Owner See Remarks 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 Wear _____

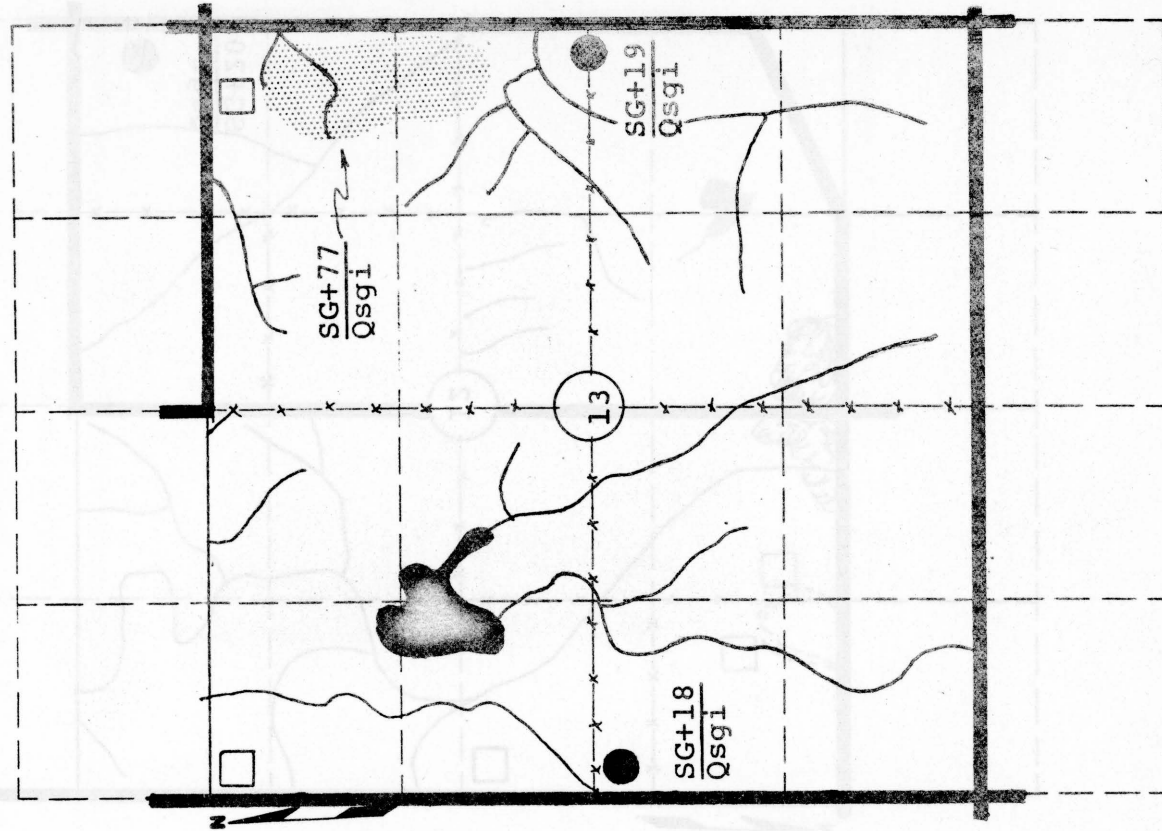
Absorption _____ Soundness _____

Wt. Cu.ft. _____ Str. Ratio _____

Remarks Site location on Plate IV

Blanche Fincham (E $\frac{1}{2}$ SE $\frac{1}{4}$) 510 S. Pine Pratt, Kansas

W. E. Rosenbaum (NE $\frac{1}{4}$) RFD. 1 Pratt, Kansas



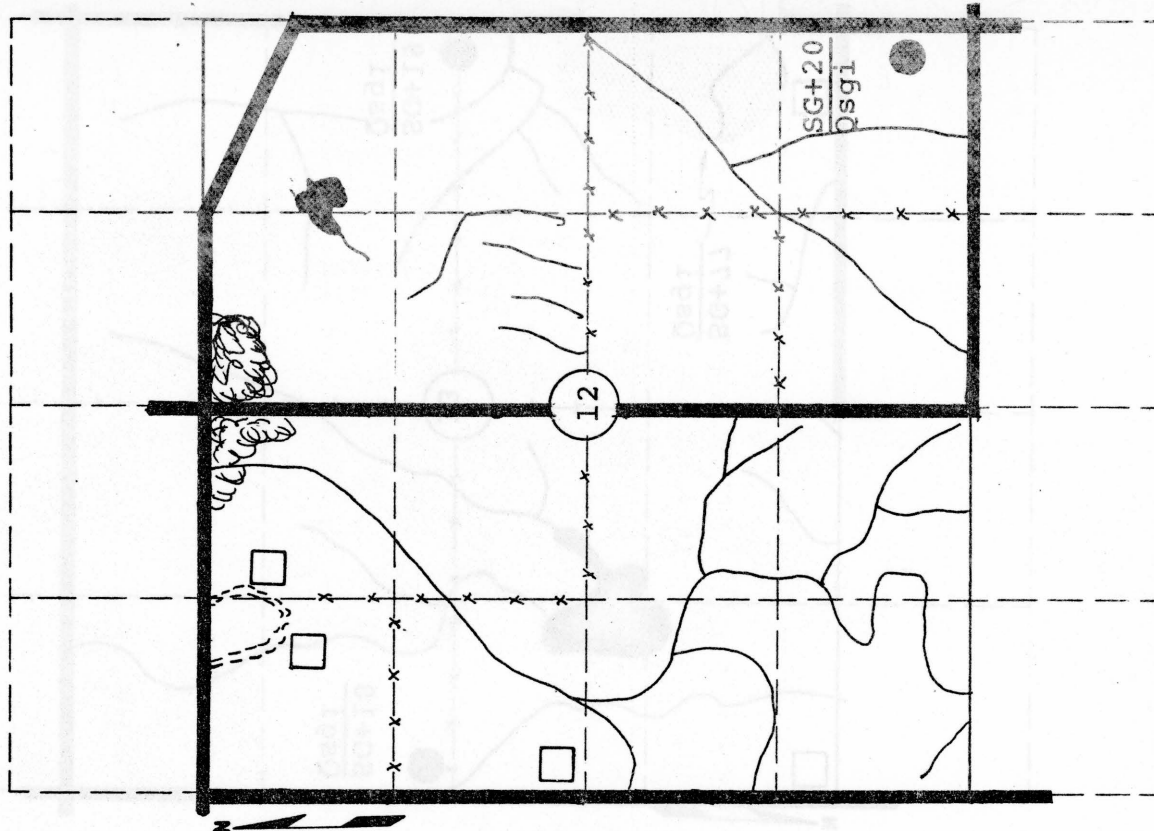
Scale: 1" = $\frac{1}{4}$ Mile

EXPLORATION DATA

[illegible]

CORRELATION DATA

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



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

MATERIAL SURVEY REPORT

February, 1967

$$\frac{SG+21}{Qsqi}$$

Pratt

12W

285

tt, Kansas

address

Good

Open site; not sampled

Status of Site

EXPLORATION DATA

[illegible]

CORRELATION DATA

Quaternary

Grand Island Formation

Material Similar To

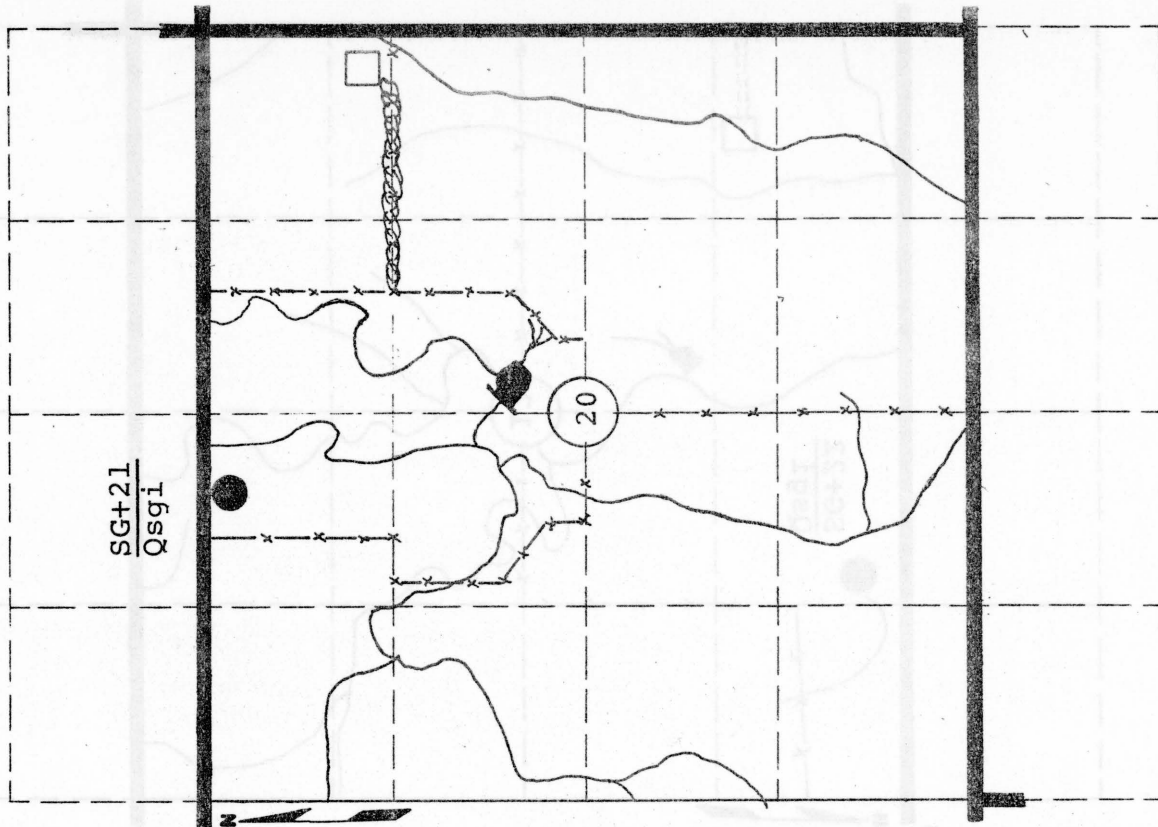
Specific Gravity (Sat.) _____ (Dry) _____

Los Angeles Wear

Absorption	Soundness
------------	-----------

mt. Cu. Ft. str. Ratio

Site location on Plate IV



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

February, 1967

Site No. _____
 Qsyt _____
 Date _____
 February, 1907

Sand & Gravel _____ Pratt
Material _____ County _____

Location NW $\frac{1}{4}$ 17 28S 12W
Sec. _____ Twp. _____ Range _____

Mrs. Ross Hillard etal. 407 S. Taylor Pratt, Kansas

owner	name	address
	Dry.	Good

Nature of Deposit DIY. Accessibility Good.

Site	Status of Site	Open site; not sampled
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
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24		
25		
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85		
86		
87		
88		
89		
90		
91		
92		
93		
94		
95		
96		
97		
98		
99		
100		

EXPLORATION DATA

[illegible]

CORRELATION DATA

Quaternary

Grand Island Formation

Material similar to _____

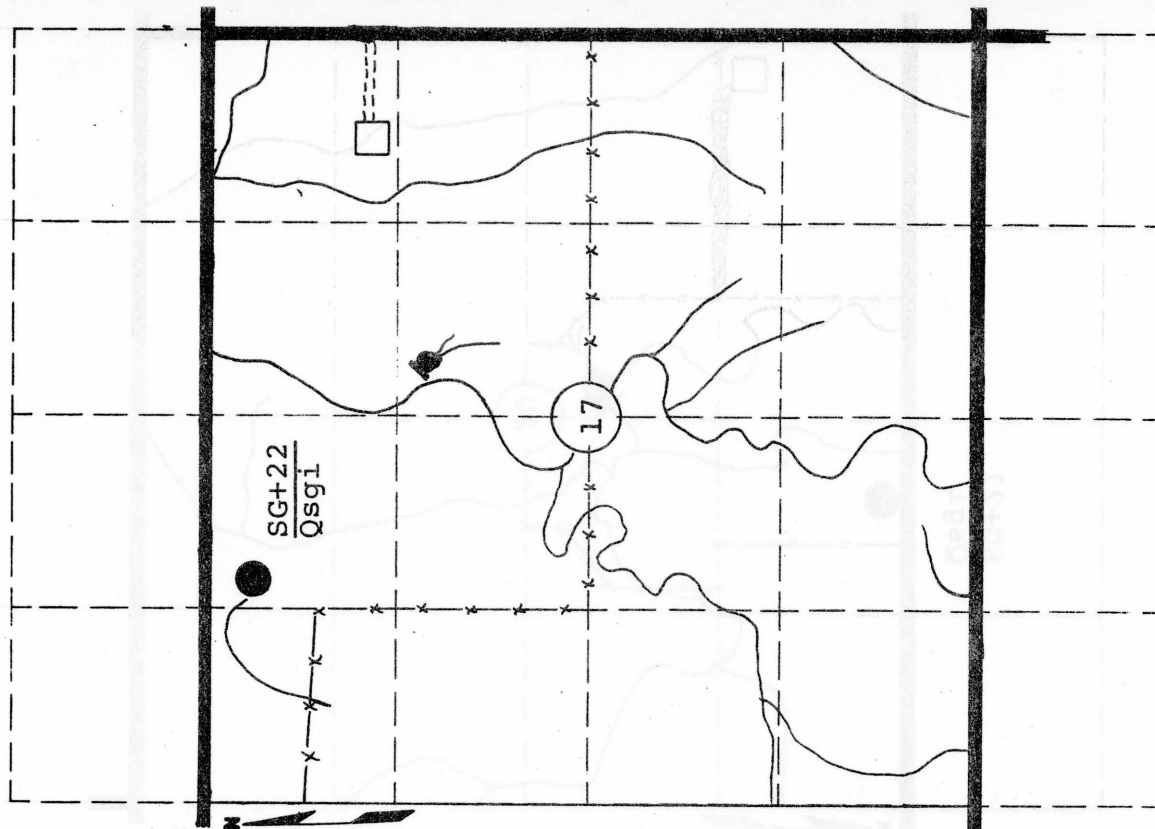
Specific Gravity (Sat.) _____ (Dry) _____

Los Angeles Wear _____

absorption _____ Soundness _____

t. Cu.Ft. _____ Str. Ratio _____

Site location on Plate IV	Remarks



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

SG-23
Qsg1

February, 1967

Site No. _____ Date _____
February, 1961

Material Sand & Gravel County Pratt

Location NE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 6 Twp. 28S Range 12W

Nellie M. Penrod 420 S. Pine Pratt, Kansas
 name address

name _____ address _____
 Dry _____ Poor _____
 Maturity of Deposit _____ Accessibility _____

Status of Site	
Open site; not sampled	

EXPLORATION DATA

[illegible]

CORRELATION DATA

Geological Age _____ Quaternary _____

Geological Source . Grand Island Formation

Material Similar To -----

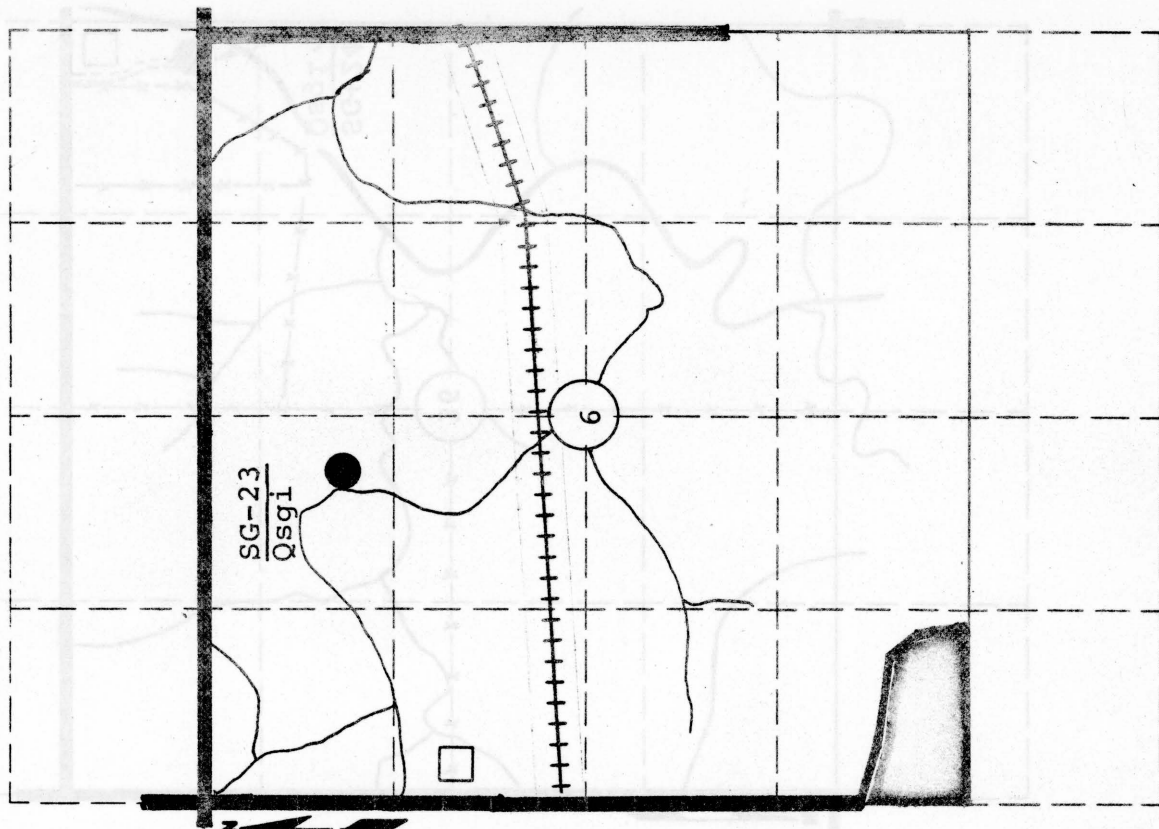
Specific Gravity (Sat.) _____ (Dry) _____

Los Angeles Wear

absorption	soundness
100	100
90	90
80	80
70	70
60	60
50	50
40	40
30	30
20	20
10	10
0	0

Wt. Cu. Ft.	Str. Ratio
100	1.00
200	1.00
300	1.00
400	1.00
500	1.00
600	1.00
700	1.00
800	1.00
900	1.00
1000	1.00
1100	1.00
1200	1.00
1300	1.00
1400	1.00
1500	1.00
1600	1.00
1700	1.00
1800	1.00
1900	1.00
2000	1.00
2100	1.00
2200	1.00
2300	1.00
2400	1.00
2500	1.00
2600	1.00
2700	1.00
2800	1.00
2900	1.00
3000	1.00
3100	1.00
3200	1.00
3300	1.00
3400	1.00
3500	1.00
3600	1.00
3700	1.00
3800	1.00
3900	1.00
4000	1.00
4100	1.00
4200	1.00
4300	1.00
4400	1.00
4500	1.00
4600	1.00
4700	1.00
4800	1.00
4900	1.00
5000	1.00
5100	1.00
5200	1.00
5300	1.00
5400	1.00
5500	1.00
5600	1.00
5700	1.00
5800	1.00
5900	1.00
6000	1.00
6100	1.00
6200	1.00
6300	1.00
6400	1.00
6500	1.00
6600	1.00
6700	1.00
6800	1.00
6900	1.00
7000	1.00
7100	1.00
7200	1.00
7300	1.00
7400	1.00
7500	1.00
7600	1.00
7700	1.00
7800	1.00
7900	1.00
8000	1.00
8100	1.00
8200	1.00
8300	1.00
8400	1.00
8500	1.00
8600	1.00
8700	1.00
8800	1.00
8900	1.00
9000	1.00
9100	1.00
9200	1.00
9300	1.00
9400	1.00
9500	1.00
9600	1.00
9700	1.00
9800	1.00
9900	1.00
10000	1.00

Remarks	Site location on Plate IV



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

MATERIAL SURVEY REPORT

SG+24

Qsqi

Site No. _____ Date February, 1967

Qsg1

Material Sand & Gravel Pratt County

Location SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 36 Twp. 29S Range 14W

Ralph Gilham **Coats, Kansas**

name Dry Accessability Fair
address _____

Status of Site	
Open site; not sampled	

EXPLORATION DATA

[illegible]

CORRELATION DATA

Quaternary

Geological Age

Grand Island Formation

Geological Source:

Material Similar To-

Specific Gravity (Sat.) _____ (Dry) _____

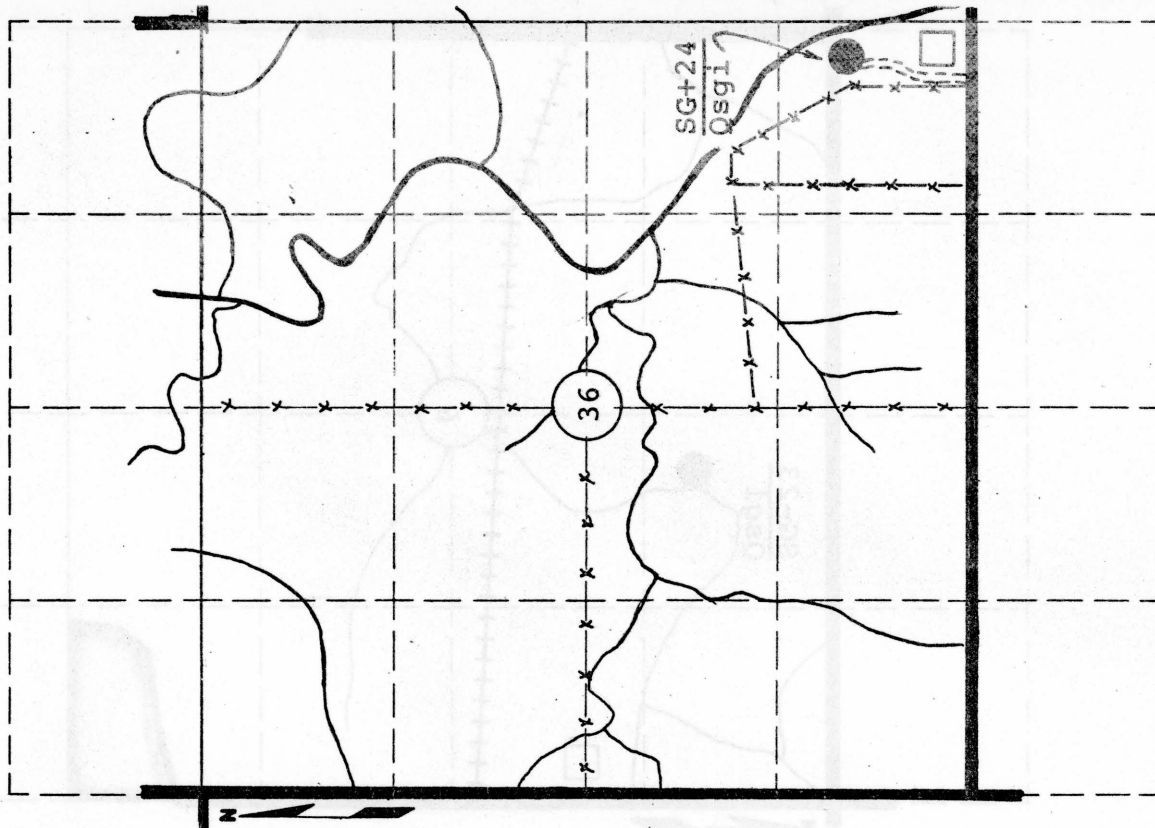
Los Angeles Wear

Absorption _____ Soundness _____

wt. Cu.Ft. _____ Str. Ratio _____

Site location on Plate V

Remarks



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

MATERIAL SURVEY REPORT

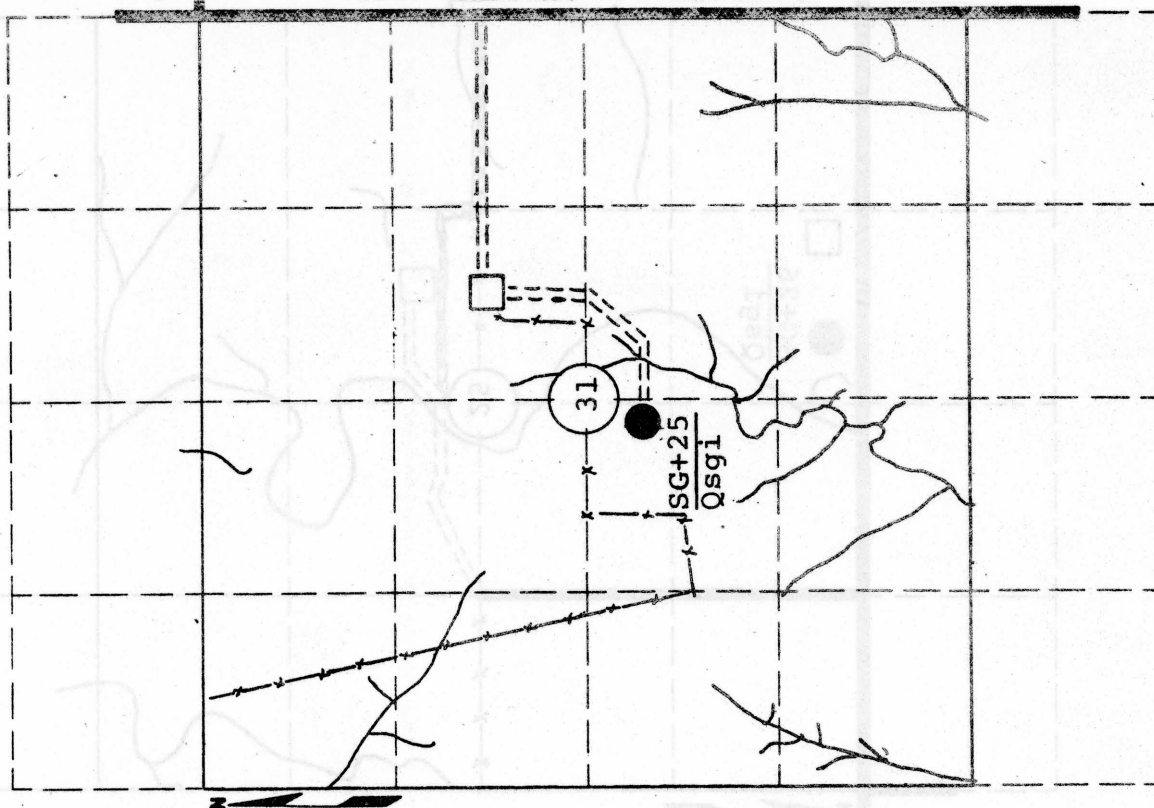
Site No. SG+25 Date February, 1967
Qsg1
 Material Sand & Gravel County Pratt
 Location NE 1/4 SW 1/4 Sec. 31 Twp. 29S Range 15W
 Owner Josephine Putterbaugh Haviland, Kansas
 name address
 Nature of Deposit Dry Accessibility Fair
 Status of Site Open site; not sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of over- Burden	Depth of Material	Percent Retained								Wash 200	G.F.	L.L.	P.I.
				1 1/2	3/4	3/8	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 Site location on plate V



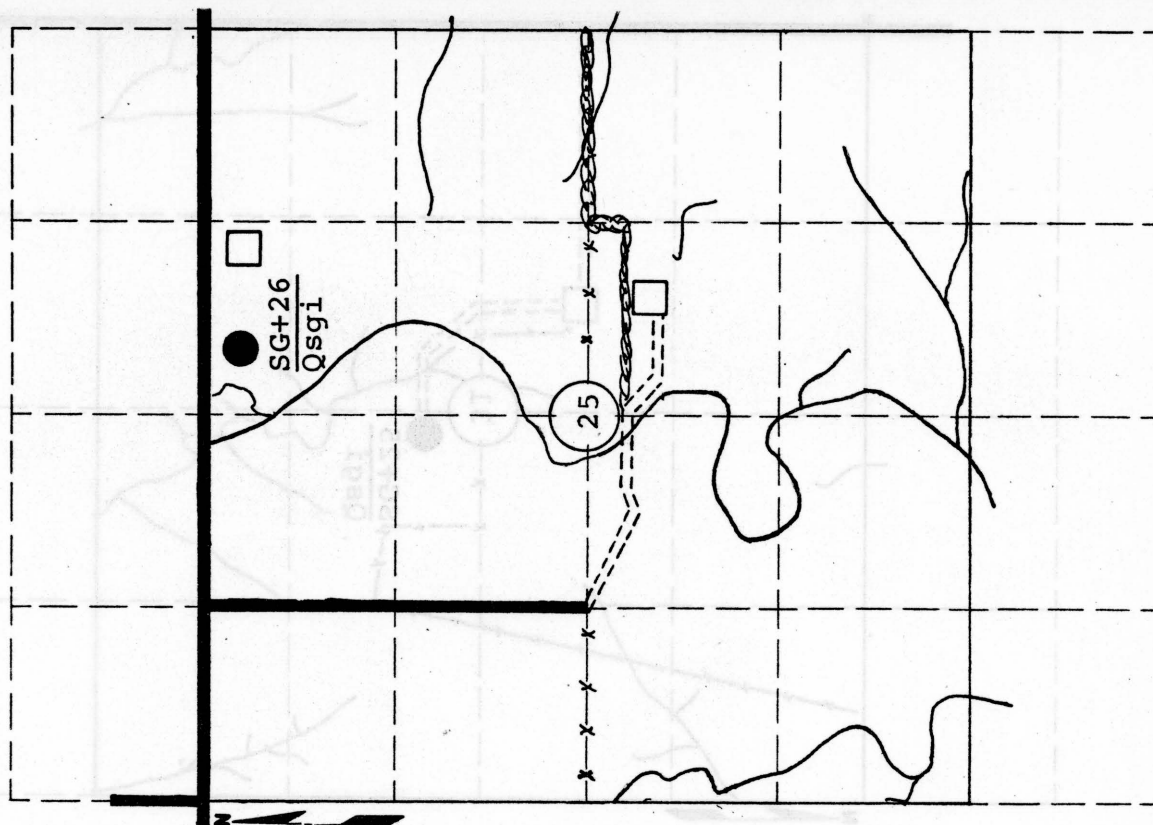
Scale: 1" = 1/4 Mile

EXPLORATION DATA

[illegible]

CORRELATION DATA

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



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

MATERIAL SURVEY REPORT

SG+27
Qsgi

Site No. _____ Date February, 1967

Material Sand & Gravel County Pratt

Location NW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 33 Twp. 29S Range 13W

Owner Joseph Moore Name Joseph Moore address _____

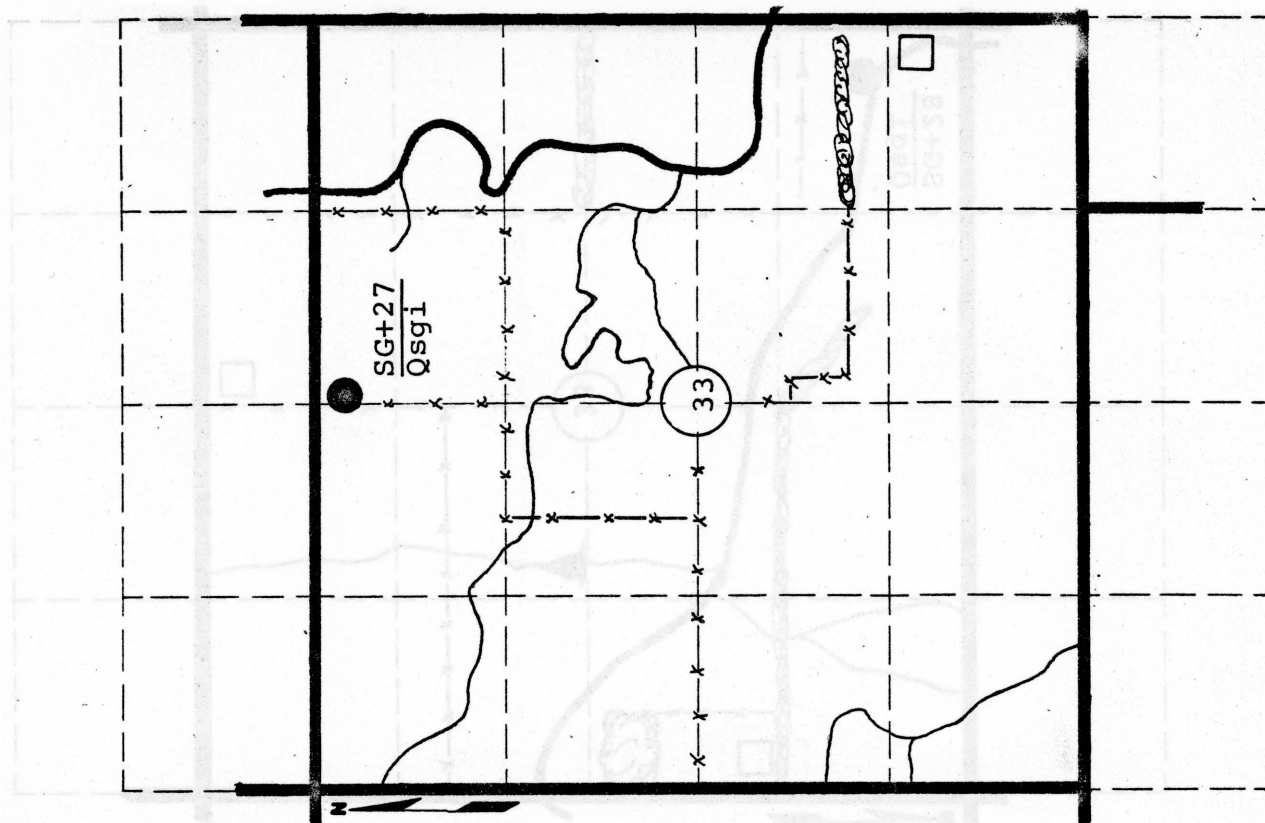
Nature of Deposit dry Accessibility Good

Status of Site Open site; not sampled

[illegible]

CORRELATION DATA

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



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

MATERIAL SURVEY REPORT

$$\frac{SG+28}{Q_{sg1}}$$

Qsg1 February, 1967

Sand & Gravel _____ **Pratt** _____
Material _____ County _____

Location NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 33 Twp. 28S Range 11W

owner	Ray Ford	Isabel, Kansas	address
-------	----------	----------------	---------

Nature of Deposit Dry Accessibility Good

Open site; not sampled

EXPLORATION DATA

[illegible]

CORRELATION DATA

Quaternary

Grand Island Formation

Material Similar To -

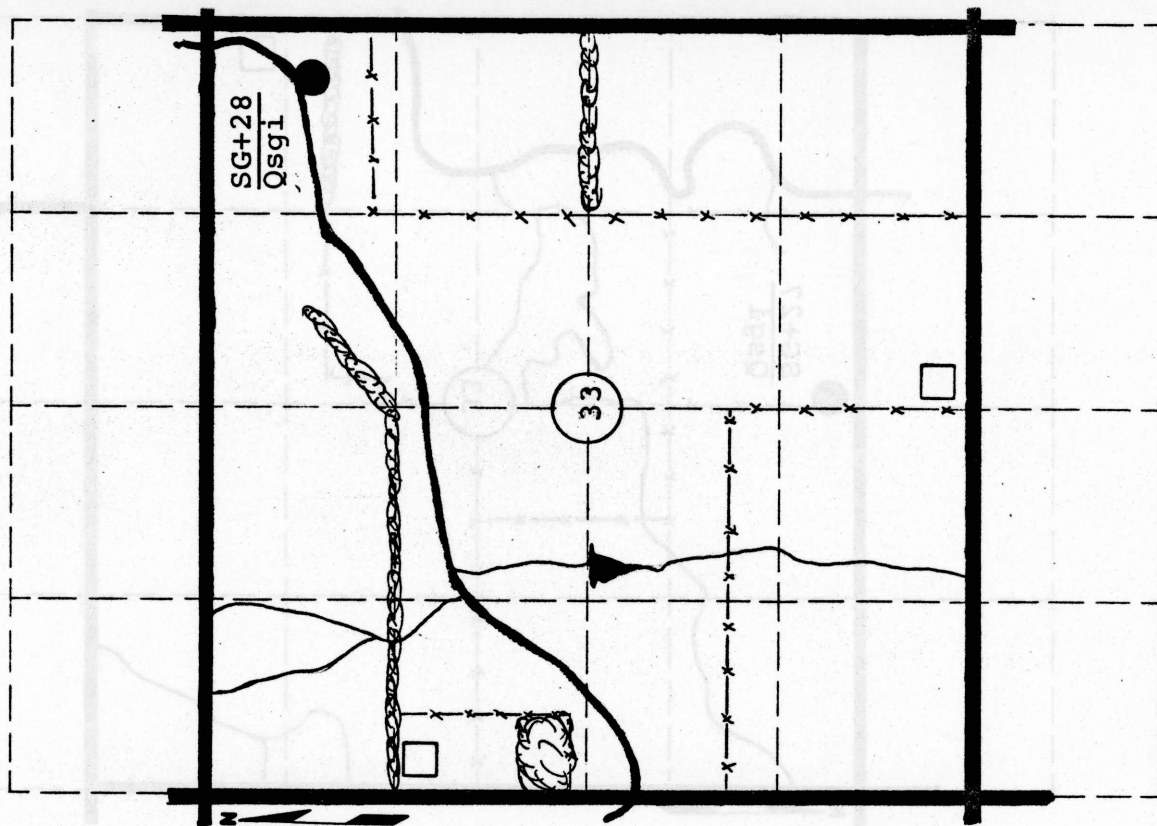
Specific Gravity (Sat.) _____ (Dry) _____

Los Angeles Wear -

Absorption	Soundness
0.000	0.000
0.001	0.001
0.002	0.002
0.003	0.003
0.004	0.004
0.005	0.005
0.006	0.006
0.007	0.007
0.008	0.008
0.009	0.009
0.010	0.010
0.011	0.011
0.012	0.012
0.013	0.013
0.014	0.014
0.015	0.015
0.016	0.016
0.017	0.017
0.018	0.018
0.019	0.019
0.020	0.020
0.021	0.021
0.022	0.022
0.023	0.023
0.024	0.024
0.025	0.025
0.026	0.026
0.027	0.027
0.028	0.028
0.029	0.029
0.030	0.030
0.031	0.031
0.032	0.032
0.033	0.033
0.034	0.034
0.035	0.035
0.036	0.036
0.037	0.037
0.038	0.038
0.039	0.039
0.040	0.040
0.041	0.041
0.042	0.042
0.043	0.043
0.044	0.044
0.045	0.045
0.046	0.046
0.047	0.047
0.048	0.048
0.049	0.049
0.050	0.050
0.051	0.051
0.052	0.052
0.053	0.053
0.054	0.054
0.055	0.055
0.056	0.056
0.057	0.057
0.058	0.058
0.059	0.059
0.060	0.060
0.061	0.061
0.062	0.062
0.063	0.063
0.064	0.064
0.065	0.065
0.066	0.066
0.067	0.067
0.068	0.068
0.069	0.069
0.070	0.070
0.071	0.071
0.072	0.072
0.073	0.073
0.074	0.074
0.075	0.075
0.076	0.076
0.077	0.077
0.078	0.078
0.079	0.079
0.080	0.080
0.081	0.081
0.082	0.082
0.083	0.083
0.084	0.084
0.085	0.085
0.086	0.086
0.087	0.087
0.088	0.088
0.089	0.089
0.090	0.090
0.091	0.091
0.092	0.092
0.093	0.093
0.094	0.094
0.095	0.095
0.096	0.096
0.097	0.097
0.098	0.098
0.099	0.099
0.100	0.100

	Str. Ratio.
Wt. Cu.Ft.	

Remarks _____ Site location on Plate VI



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

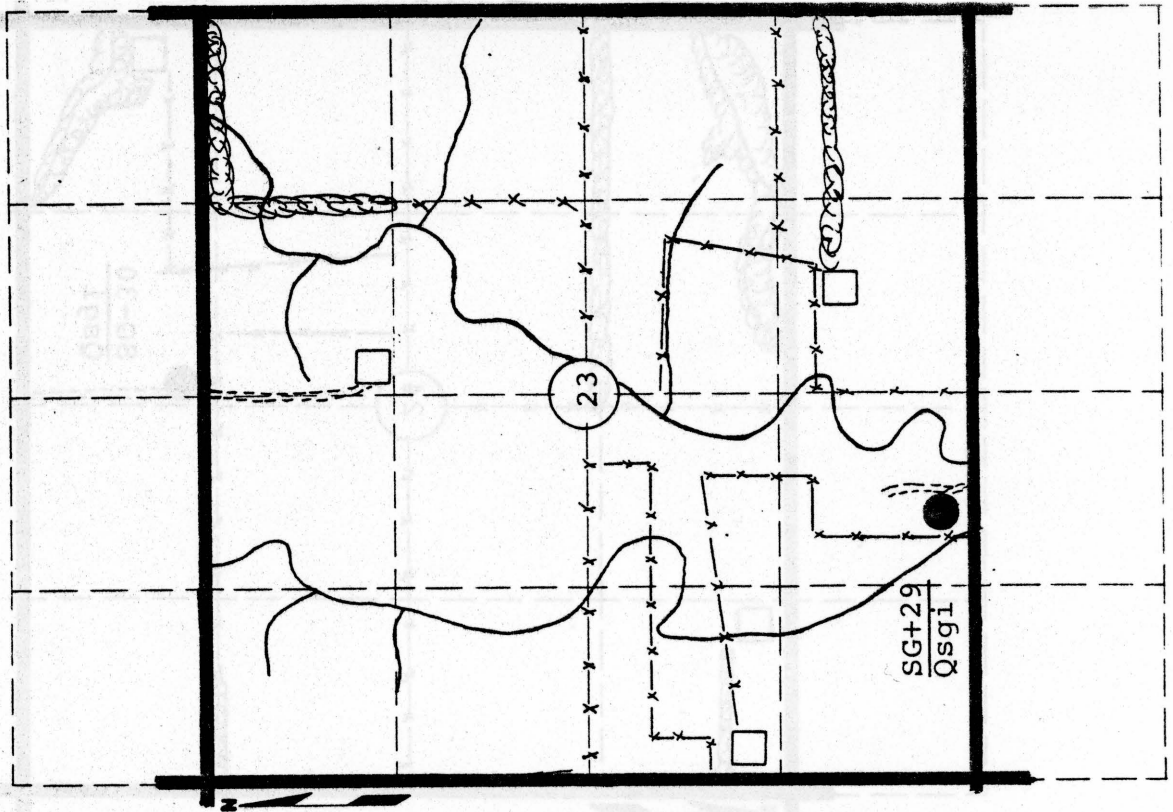
MATERIAL SURVEY REPORT

EXPLORATION DATA

[illegible]

CORRELATION DATA

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



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

MATERIAL SURVEY REPORT

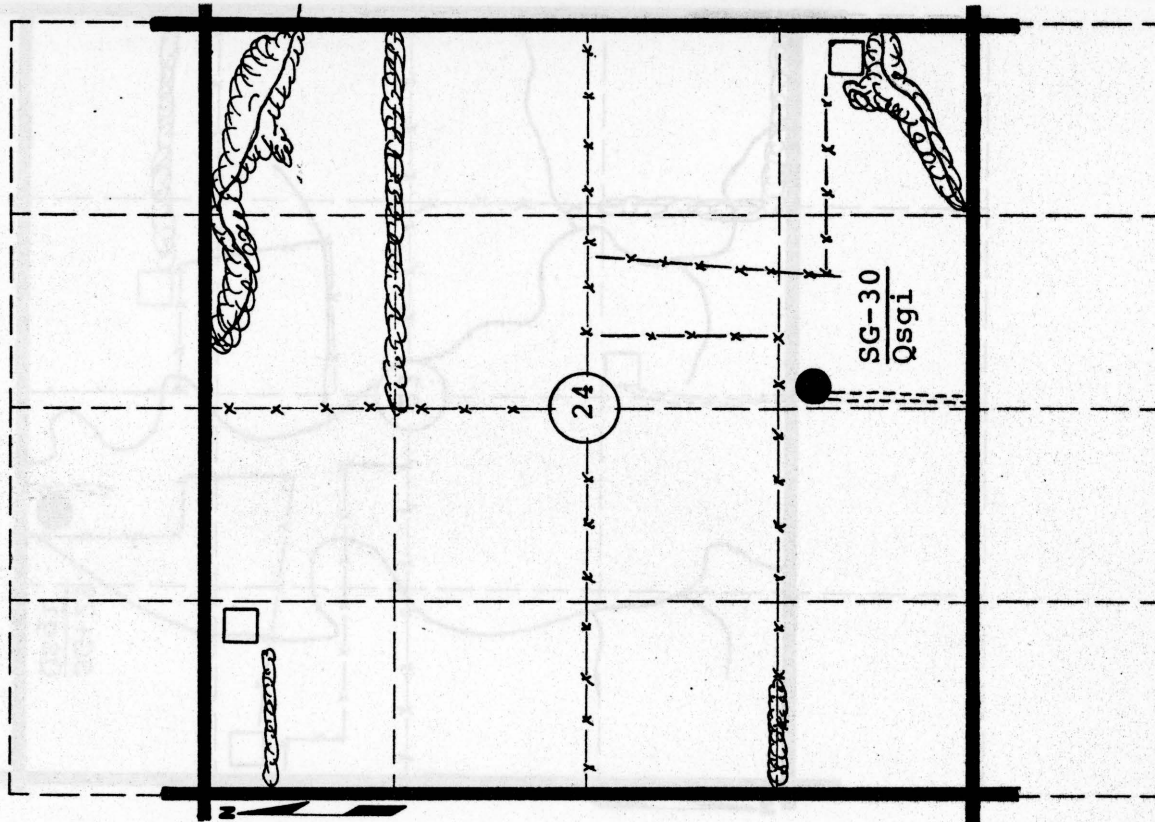
Site No. SG-30 Date February, 1967
Qsgi
 Material Sand & Gravel County Pratt
 Location SW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 24 Twp. 29S Range 11W
 Owner Sylvia Naasz 1301 N. Veach Kingman, Kansas
 name address
 Nature of Deposit Dry Accessibility Good
 Status of Site Open site; not sampled

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 (Set.) _____ (Dry)
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu.Ft. _____ Str. Ratio _____
 Remarks Site location on Plate VI

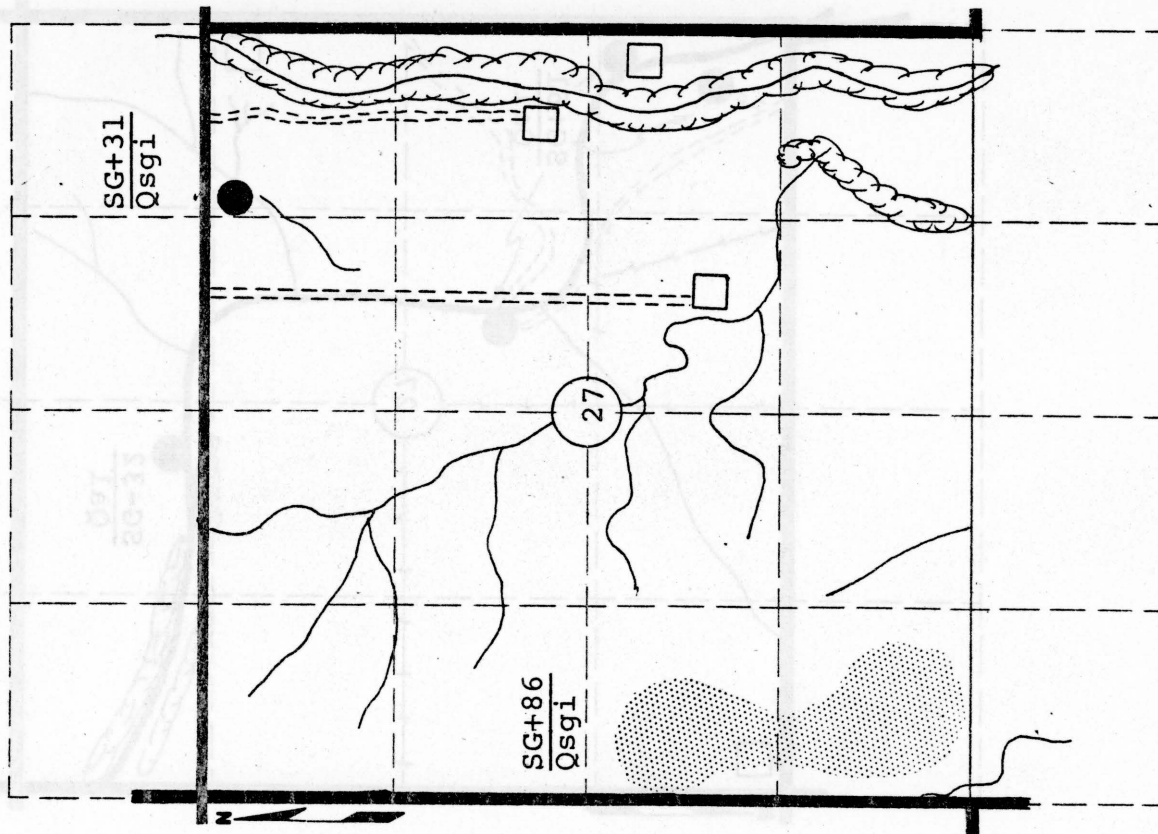


Scale: 1" = 1/4 Mile

EXPLORATION DATA

CORRELATION DATA

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



SG-32
Qa1

February, 1967

Site No. _____ Date _____

Sand & Gravel Pratt

SE $\frac{1}{4}$	SW $\frac{1}{4}$	27	28S	11W
------------------	------------------	----	-----	-----

John B. Carrier et al. 838 Bonnie Brae, Casper, Wyo.

owner	name	address
	dry	poor

Nature of Deposit	Accessability
1. <u>Current</u> 2. <u>Time</u> 3. <u>Fixed</u> 4. <u>Variable</u> 5. <u>Other</u>	1. <u>High</u> 2. <u>Medium</u> 3. <u>Low</u> 4. <u>Very Low</u> 5. <u>None</u>

Open site; not sampled

EXPLORATION DATA

[illegible]

CORRELATION DATA

Quaternary

Geological Source
Alluvium

Material Similar To _____

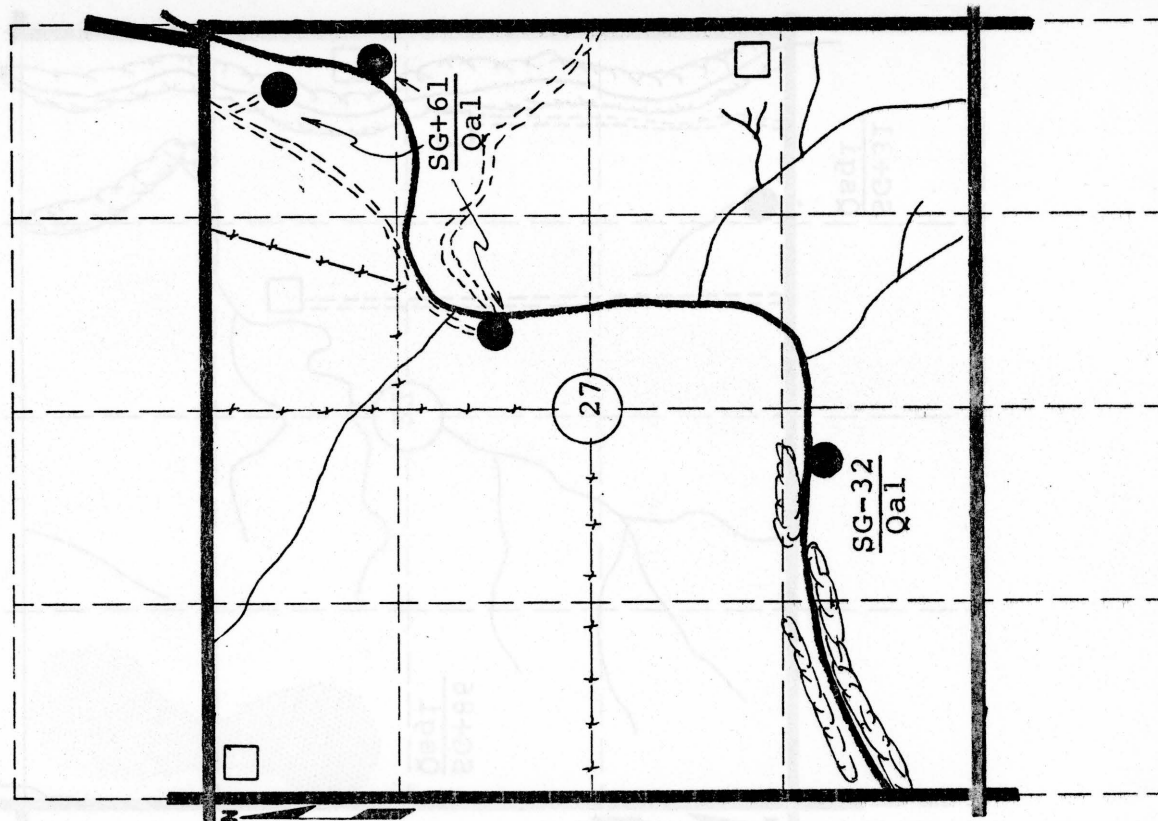
Specific Gravity (Sat.) _____ (Dry) _____

Los Angeles Wear

Absorption	Soundness
1.0	1.0
2.0	2.0
3.0	3.0
4.0	4.0
5.0	5.0
6.0	6.0
7.0	7.0
8.0	8.0
9.0	9.0
10.0	10.0
11.0	11.0
12.0	12.0
13.0	13.0
14.0	14.0
15.0	15.0
16.0	16.0
17.0	17.0
18.0	18.0
19.0	19.0
20.0	20.0
21.0	21.0
22.0	22.0
23.0	23.0
24.0	24.0
25.0	25.0
26.0	26.0
27.0	27.0
28.0	28.0
29.0	29.0
30.0	30.0
31.0	31.0
32.0	32.0
33.0	33.0
34.0	34.0
35.0	35.0
36.0	36.0
37.0	37.0
38.0	38.0
39.0	39.0
40.0	40.0
41.0	41.0
42.0	42.0
43.0	43.0
44.0	44.0
45.0	45.0
46.0	46.0
47.0	47.0
48.0	48.0
49.0	49.0
50.0	50.0
51.0	51.0
52.0	52.0
53.0	53.0
54.0	54.0
55.0	55.0
56.0	56.0
57.0	57.0
58.0	58.0
59.0	59.0
60.0	60.0
61.0	61.0
62.0	62.0
63.0	63.0
64.0	64.0
65.0	65.0
66.0	66.0
67.0	67.0
68.0	68.0
69.0	69.0
70.0	70.0
71.0	71.0
72.0	72.0
73.0	73.0
74.0	74.0
75.0	75.0
76.0	76.0
77.0	77.0
78.0	78.0
79.0	79.0
80.0	80.0
81.0	81.0
82.0	82.0
83.0	83.0
84.0	84.0
85.0	85.0
86.0	86.0
87.0	87.0
88.0	88.0
89.0	89.0
90.0	90.0
91.0	91.0
92.0	92.0
93.0	93.0
94.0	94.0
95.0	95.0
96.0	96.0
97.0	97.0
98.0	98.0
99.0	99.0
100.0	100.0

Wt. Cu. Ft.	Str. Ratio
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
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18	18
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34	34
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77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

Site location on Plate VI



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

MATERIAL SURVEY REPORT

SG+33
Qsg1

Site No. _____ Date February, 1967

Material Sand & Gravel County Pratt

Location NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 30 Twp. 28S Range 11W

Owner _____ name _____ address _____

Nature of Deposit Dry Accessibility Good

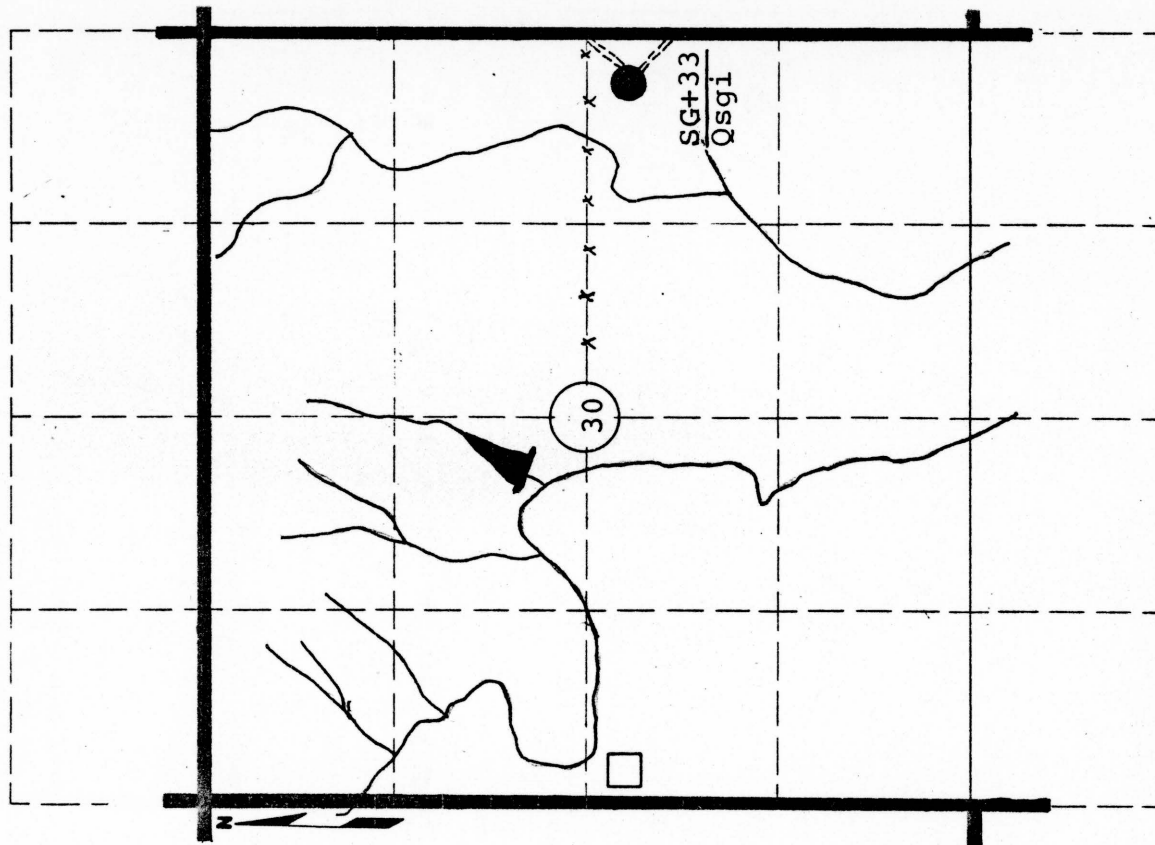
Status of site Open site; not sampled

EXPLORATION DATA

[illegible]

CORRELATION DATA

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

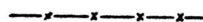
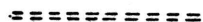
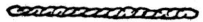


Scale: 1" = $\frac{1}{4}$ Mile

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

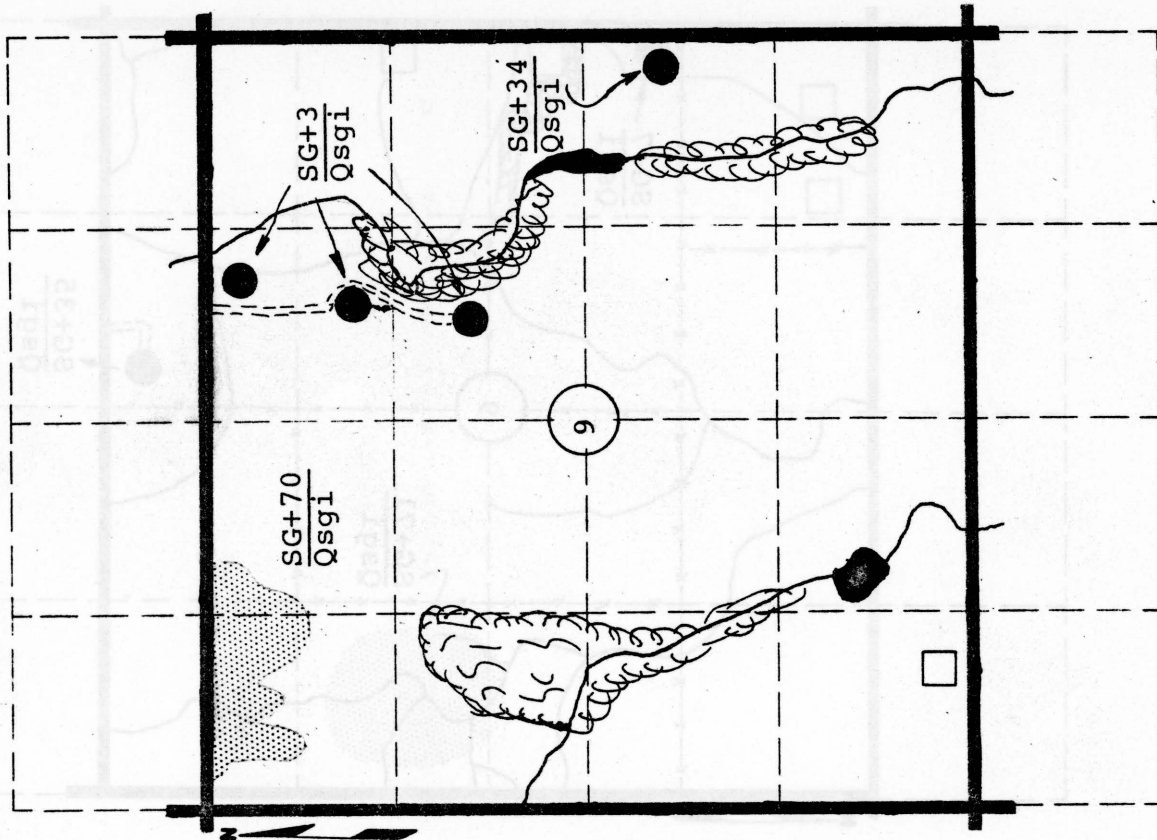
Site No. SG+34 Date February, 1967
Qsgl
 Material Sand & Gravel County Pratt
 Location NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 9 Twp. 27S Range 12W
 Owner J. W. Hoeme Preston, Kansas
 Nature of Deposit Dry Accessibility Good
 Status of Site Open site; sampled

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
				0	0	2	7	19	38	67	93	99	.4	3.25		
								</								

CORRELATION DATA

Geological Age Quaternary
 Geological Source Grand Island Formation
 Material similar to Material reported on SHC Form 633
 Lab. No. 28891
 Specific Gravity (Sat.) 2.62 (Dry)
 Los Angeles Wear 32.2 (D)
 Absorption 0.5 Soundness 0.98
 Wt. Cu.ft. 111.3 Str. Ratio
 Remarks Site location on Plate II

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

MATERIAL SURVEY REPORT

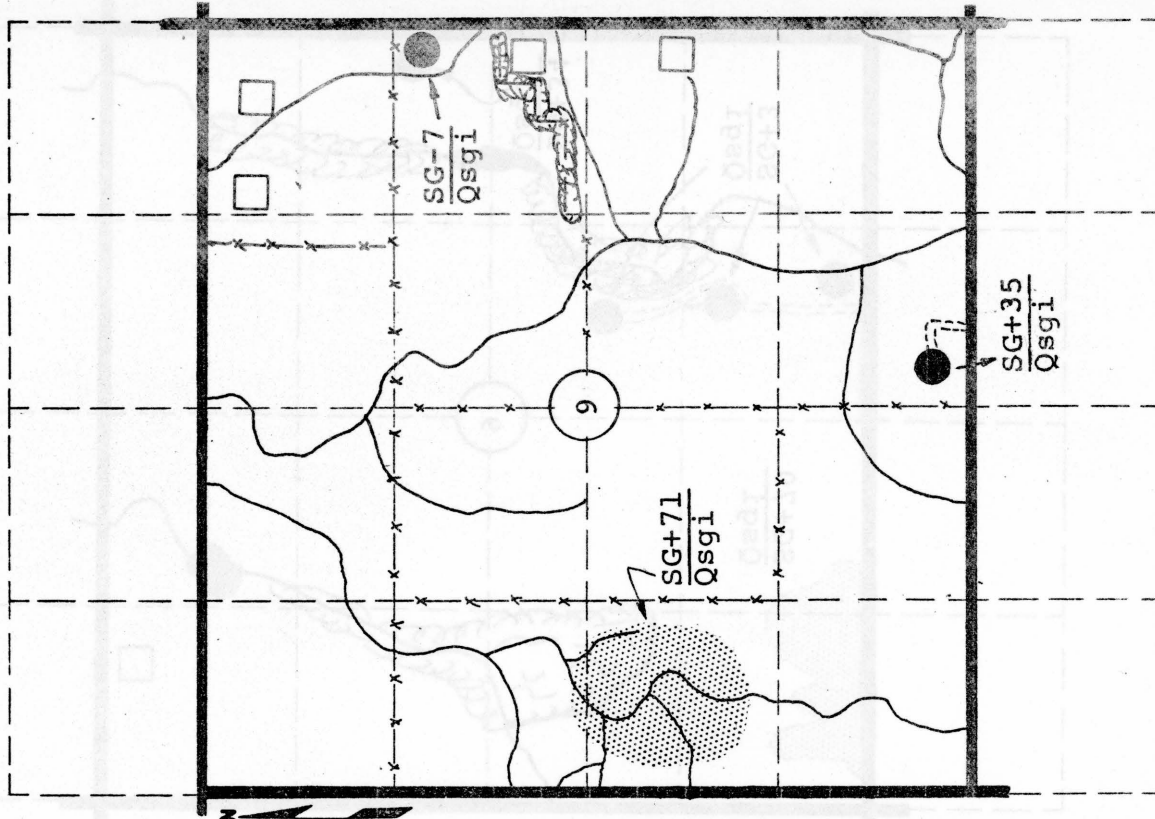
Site No. SG+35 Date February, 1967
Qsgi
 Material Sand & Gravel County Pratt
 Location SW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 9 Twp. 28S Range 13W
 Owner Mae E. Buckner R. R. 2, Pratt, Kansas
 Nature of Deposit Dry Accessibility Good
 Status of Site Open site; sampled

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.L.
				1 1/2	3/4	3/8	4	8	16	30	50	100			
Average		3	13	0	8	13	17	24	36	59	89	93	2	3.43	
		2	12	0	13	16	21	29	44	68	92	99	1	3.82	
		2	15	0	3	7	11	17	21	56	90	92	1	2.97	

CORRELATION DATA

Geological Age Quaternary
 Geological Source Grand Island Formation
 Material Similar To Material reported on SHC Form 619
 #76-29 Lab. No. 98327
 Specific Gravity (Sat.) 2.61 (Dry)
 Los Angeles Wear 31.0 (D)
 Absorption 0.8 Soundness 0.99
 Wt. Cu.ft. 110.7 Str. Ratio 1 day 0.90, 3 day 0.99
 Remarks Site location on Plate III. Gradation data for holes 1 & 6 represent the finest and coarsest material that has been sampled at this site.



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

VA+36
Qsgl
February, 1967
Site No. _____ Date _____
Material Volcanic Ash
County Pratt
Location SW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 32 Twp. 27S Range 14W
Owner Hugh E. Bryant 920 W. 4th Pratt, Kansas
Name address
Nature of Deposit Dry Accessibility Good
Status of Site Open site; sampled

EXPLORATION DATA

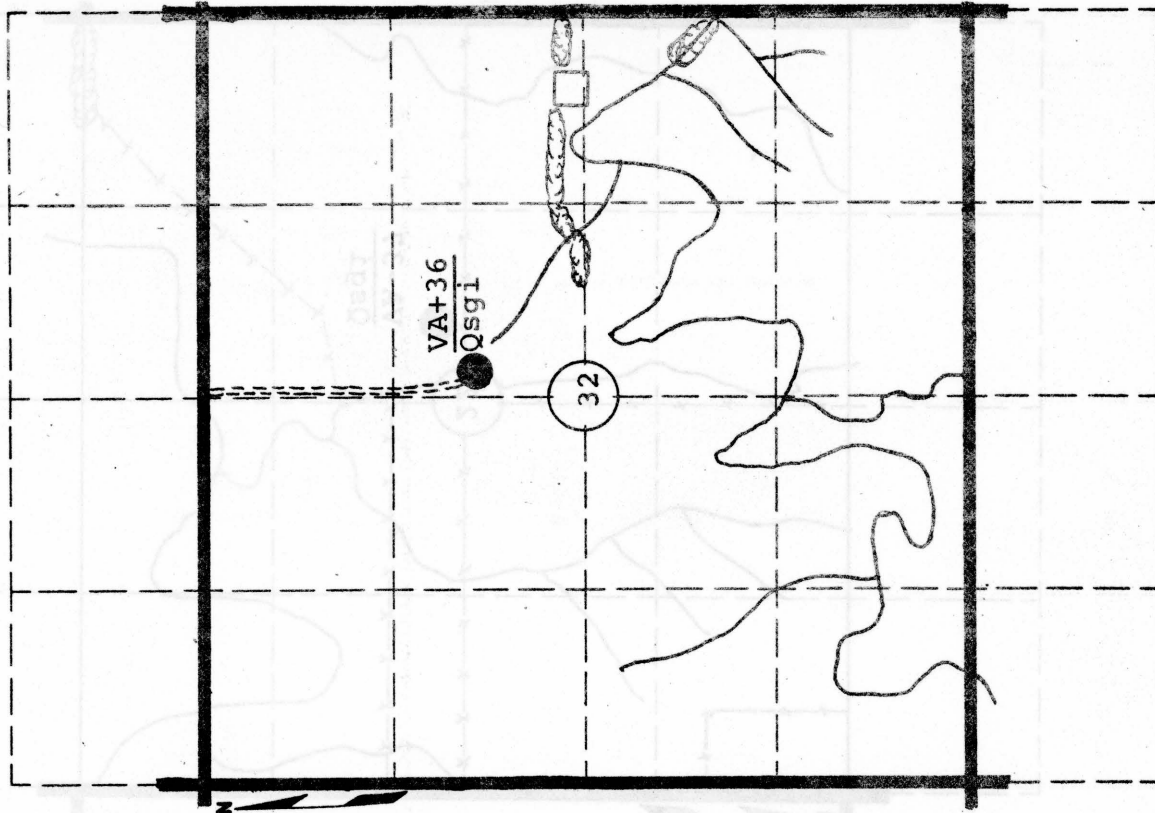
Test Hole	Material at Bottom of Hole	Depth of over-burden	Depth of Material	Percent Retained										L.L.	P.I.
				1 1/2	3/4	3/8	4	8	16	30	50	100	200		
Average			5.5	0	0	0	0	0	0	0	3	17	24	76	0
9B			4.5	0	0	0	0	0	0	1	5	26	31	69	0
12B			5.0	0	0	0	0	0	0	0	1	11	14	86	0

CORRELATION DATA

Geological Age Quaternary
Geological Source Sappa Formation
Material similar to Material reported on SHC Form 619
#76-33

Specific Gravity (Sat.) _____ (Dry)
Los Angeles Near _____
Absorption _____ Soundness _____
Wt. Co. Ft. _____ Str. Ratio _____

Remarks Gradation data for holes 9B & 12B represent the finest and coarsest material that has been sampled at this site. Site Location on Plate III



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

MATERIAL SURVEY REPORT

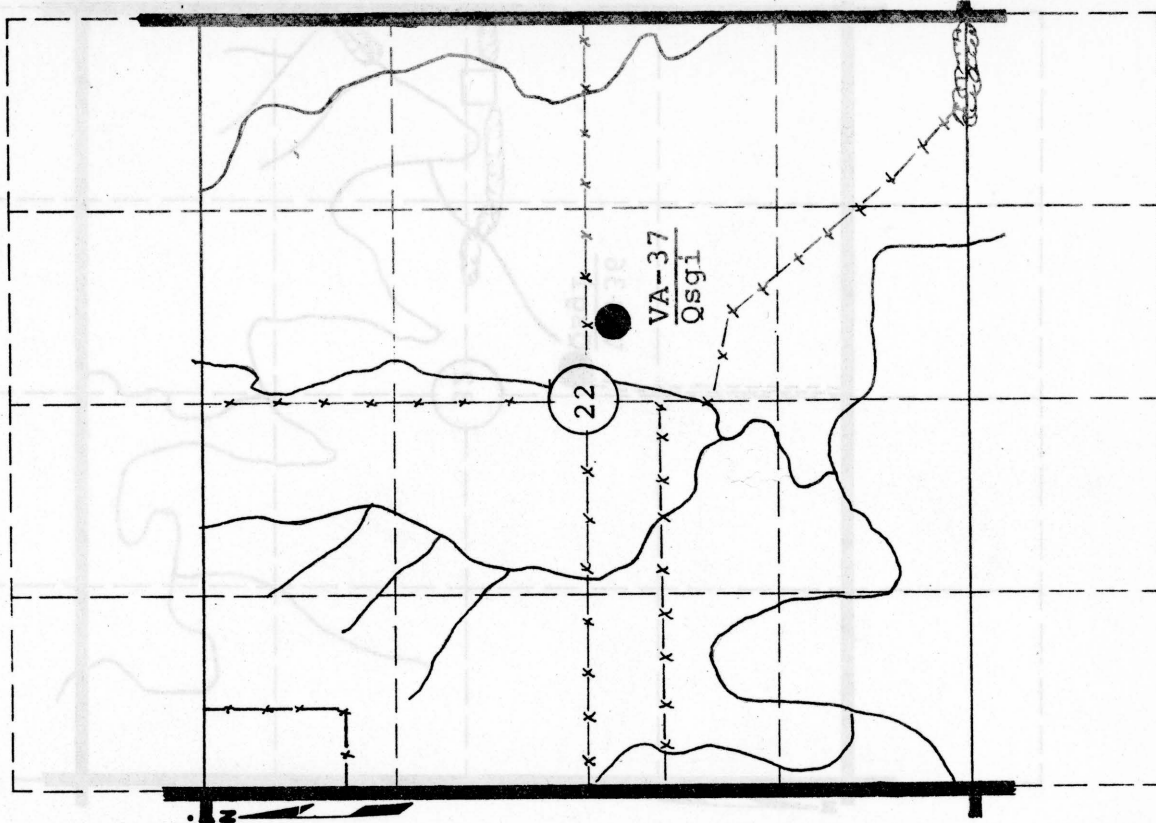
VA-37
 Qsgl
 Site No. February, 1967
 Date Pratt
 County Volcanic Ash
 Material NW 1/4 SE 1/4
 Location 22 28S 14W
 Sec. 22 28S 14W
 Twp. 22 28S 14W
 Range 22 28S 14W
 Owner Mrs. Inez V. Woolfolk 210 W. Cleveland, Pratt, Kans.
 address
 Nature of Deposit Dry Accessibility POOR
 Status of Site Open site; sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of over-burden	Depth of Material	Percent Retained								Wash	L.L.	P. I.		
				1 1/2	3/4	3/8	4	8	16	30	50				100	
Average		5	8	0	0	0	0	0	1	1	3	17	42	58		
2		7	11	0	0	0	0	0	1	1	5	30	63	37		
11		7	7	0	0	0	0	0	0	1	2	7	23	77		

CORRELATION DATA

Geological Age Quaternary
 Geological Source Sappa Formation
 Material Similar To Material reported on SHC Form 619 #76-20
 Lab. No. 62352
 Specific Gravity (Sat.) 2.36 (dry)
 Los Angeles Wear
 Absorption
 Soundness
 Wt. Co. Ft. 54.0 Str. Ratio
 Remarks Site location on Plate III. Gradation data for holes 2 & 11 represent the finest and coarsest material that has been sampled at this site.



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

SG-38

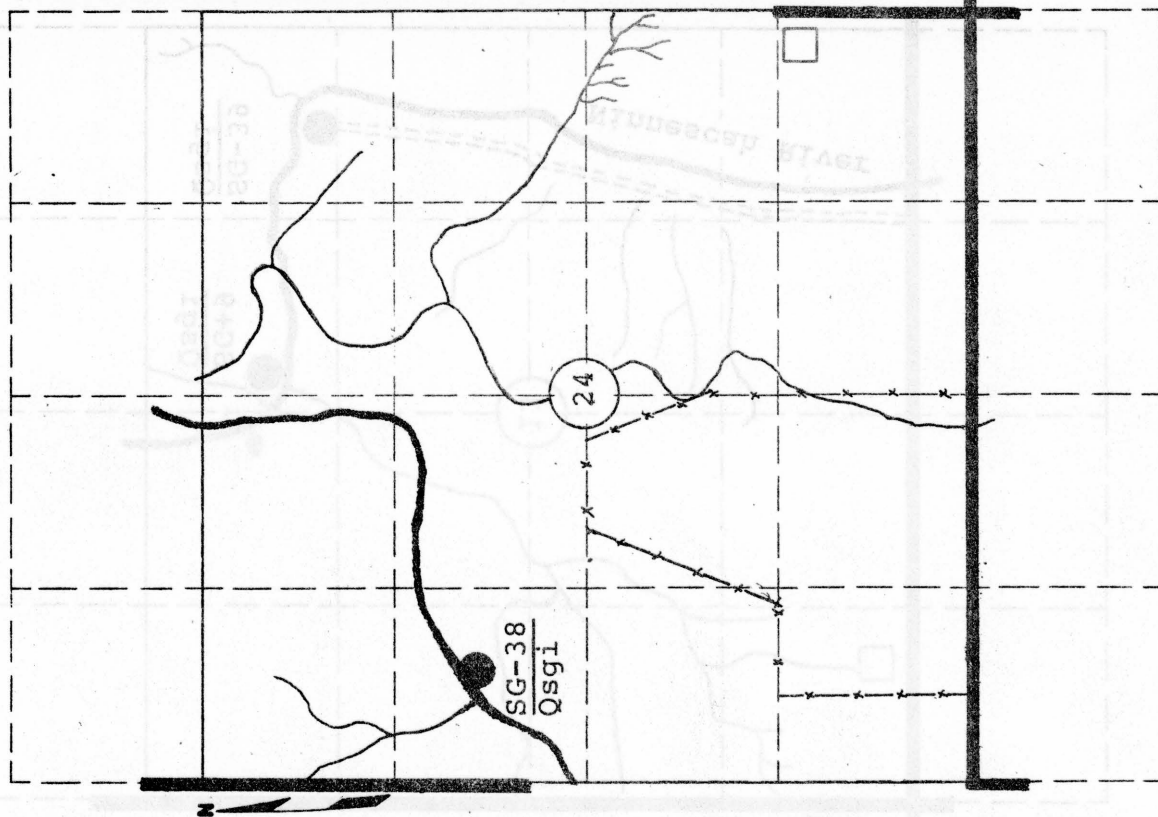
Qsgl

Site No. _____ Date February, 1967Material Sand & GravelCounty PrattLocation NW $\frac{1}{4}$ Sec. 24 Twp. 28S Range 14WOwner B. V. Hampton Box 150 Pratt, Kansas
name addressNature of Deposit Dry Accessibility FairStatus 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			
Average	0	2	0	6	14	26	45	66	85	98	99	1	4.50		
2	0	3	0	25	41	56	66	76	88	99	99	1	5.51		
8	0	2	0	3	12	30	56	82	98	100			3.81		

CORRELATION DATA

Geological Age QuaternaryGeological Source Grand Island FormationMaterial Similar To Material reported on SHC Form 619 #76-7Lab. No. 62334Specific Gravity (Sat.) 2.60 (Dry) _____Los Angeles Wear 32.2Absorption _____ Soundness 0.98Wt. Cu.Ft. 116.6 Str. Ratio 1 day 1.93, 3 day 1.66Remarks Site location on Plate III. Gradation data for holes 2 & 8 represent the finest and coarsest material that has been sampled at this site.Scale: 1" = $\frac{1}{4}$ Mile

MATERIAL SURVEY REPORT

Site No. SG-39 Date February, 1967
Qsgi
 Material Sand & Gravel County Pratt
 Location SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 13 Twp. 28S Range 14W
 See Remarks
 Owner name 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			
Average	0	1 1/2	0	1	9	21	40	61	81	96	100		4.22		
6	0	1	0	10	39	55	70	81	99	100			4.78		
2	2	2	0	0	3	9	25	51	76	90	99		3.53		

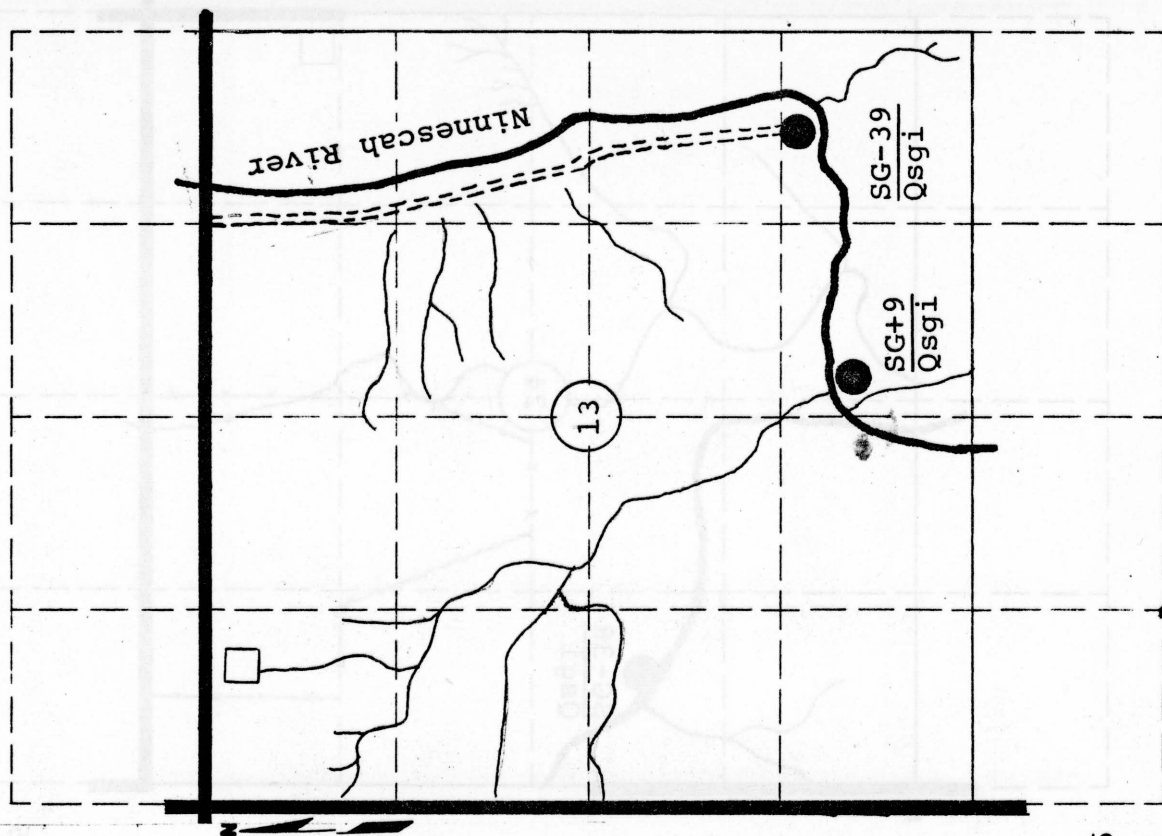
CORRELATION DATA

Geological Age Quaternary
 Geological Source Grand Island Formation
 Material Similar To Material reported on SHC Form 619
 #76-6. Lab. No. 62332
 Specific Gravity (Sat.) 2.60 (Dry)
 Los Angeles Wear 32.2 (C)

Absorption 116.7 Soundness 0.98
 Wt. Cu.ft. 1 day 1.43, 3 day 1.46
 Gradation data for holes 2 & 6 represent the

Remarks finest and coarsest material that has been sampled at this site. Site location on Plate III.

B. A. Barnes est. & Edward Foster RFD. 2, Pratt, Kansas



Scale: 1" = 1/4 Mile

STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

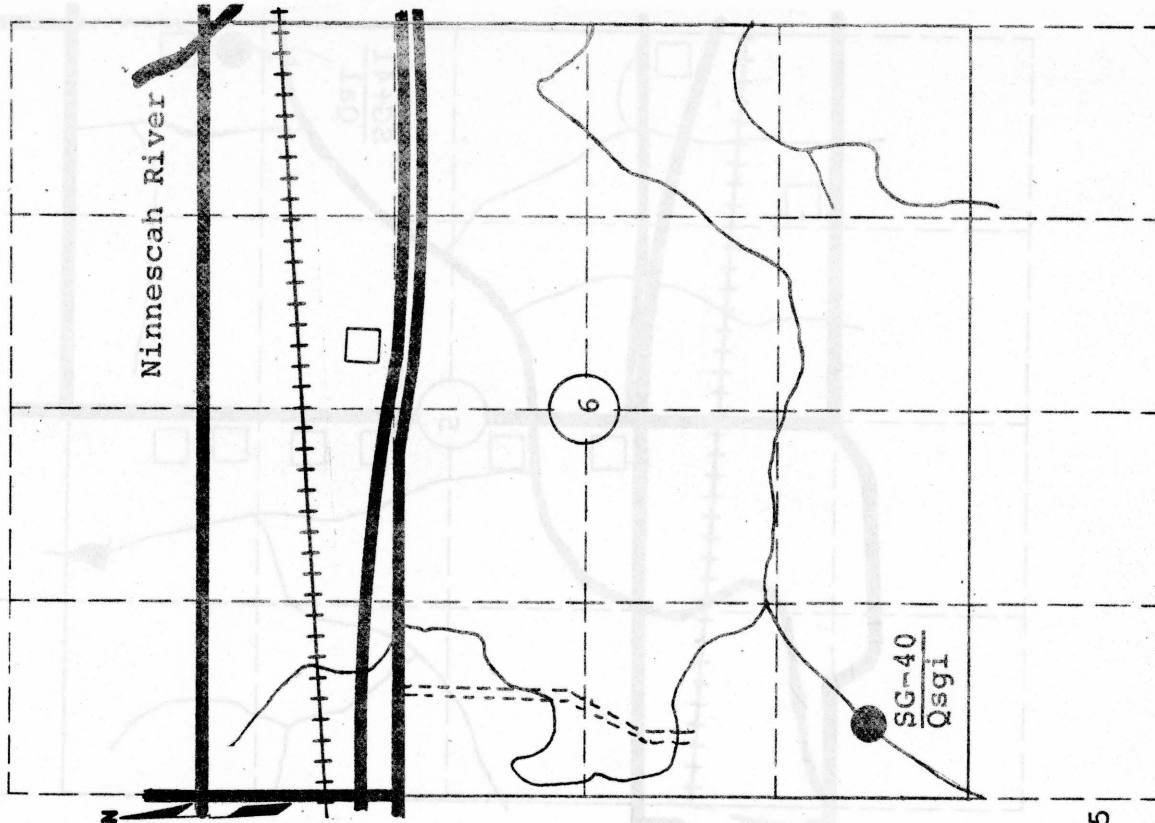
Site No. SG-40 Date February, 1967
Qsgl
 Material Sand & Gravel County Pratt
 Location SW 1/4 SW 1/4 Sec. 6 Twp. 28S Range 13W
 Owner E. D. Harris 102 S. Ninnescah Pratt, Kansas
 name address
 Nature of Deposit Dry Accessibility Poor
 Status of Site Open site; sampled

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 1/2	3/4	3/8	4	8	16	30	50	100				
				0	0	7	23	41	64	84	95	98	1	4.12		
			</													

CORRELATION DATA

Geological Age Quaternary
 Geological Source Grand Island Formation
 Material Similar To Material reported on SHC Form 633.
 Lab. No. 18728
 Specific Gravity (Sat.) 2.60 (Dry)
 Los Angeles Wear 29.7 (D)
 Absorption 0.6 Soundness 0.94
 Wt. Cu.Ft. 114.86 Str. Ratio 1 day 1.34, 3 days 1.35
 Remarks Site location on Plate III



Scale: 1" = 1/4 Mile

STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

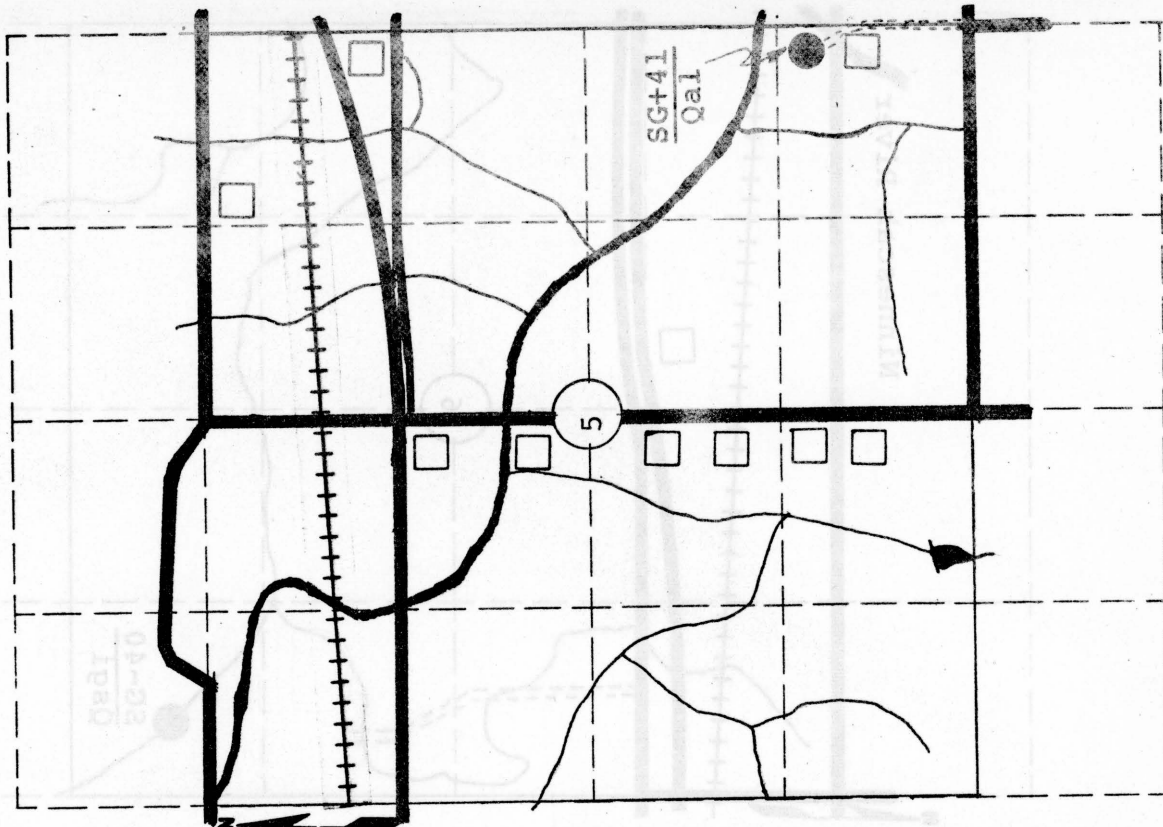
Site No. SG+41 Date February, 1967
Qal
 Material Sand & Gravel County Pratt
SE 1/4 SE 1/4 Sec. 5 Twp. 28S Range 13W
 Location M. R. Barnes Box 1011 Pratt, Kansas
 Owner Dry name Poor address
 Nature of Deposit Dry Accessibility Poor
 Status of Site Open site; sampled

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 1/2	3/4	3/8	4	8	16	30	50				
				0	4	16	41	69	86	94	96	1	4.06		

CORRELATION DATA

Geological Age Quaternary
 Geological Source Alluvium
 Material Similar To Material reported on SHC Form 633
 Lab. No. 21311
 Specific Gravity (Sat.) 2.59 (Dry)
 Los Angeles Wear 31.2 (D)
 Absorption 0.8 Soundness 0.99
 Mt. Cu.Ft. 112.28 Str. Ratio 1 day 1.34, 3 day 1.38
 Remarks Site location on Plate III



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

Site No. SG+42 Date February, 1967
Qal
 Material Sand & Gravel County Pratt
 Location NW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 4 Twp. 28S Range 13W
 Owner M. R. Barnes Box 1011 Pratt, Kansas
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	2	6	12	22	35	59	88	97	3	3.21		
					</											

CORRELATION DATA

Geological Age Quaternary
 Geological Source Alluvium
 Material Similar To Material reported on SHC Form 619
#76-34. Lab. No. 32690
 Specific Gravity (Sat.) 2.59 (Dry) 2.58
 Los Angeles Wear 35.6 (D)
 Absorption 0.4 Soundness 0.98
 Wt. Cu.Ft. 110.7 Str. Ret. 1 day 1.27, 3 day 1.21
 Remarks Site location on Plate III

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

MATERIAL SURVEY REPORT

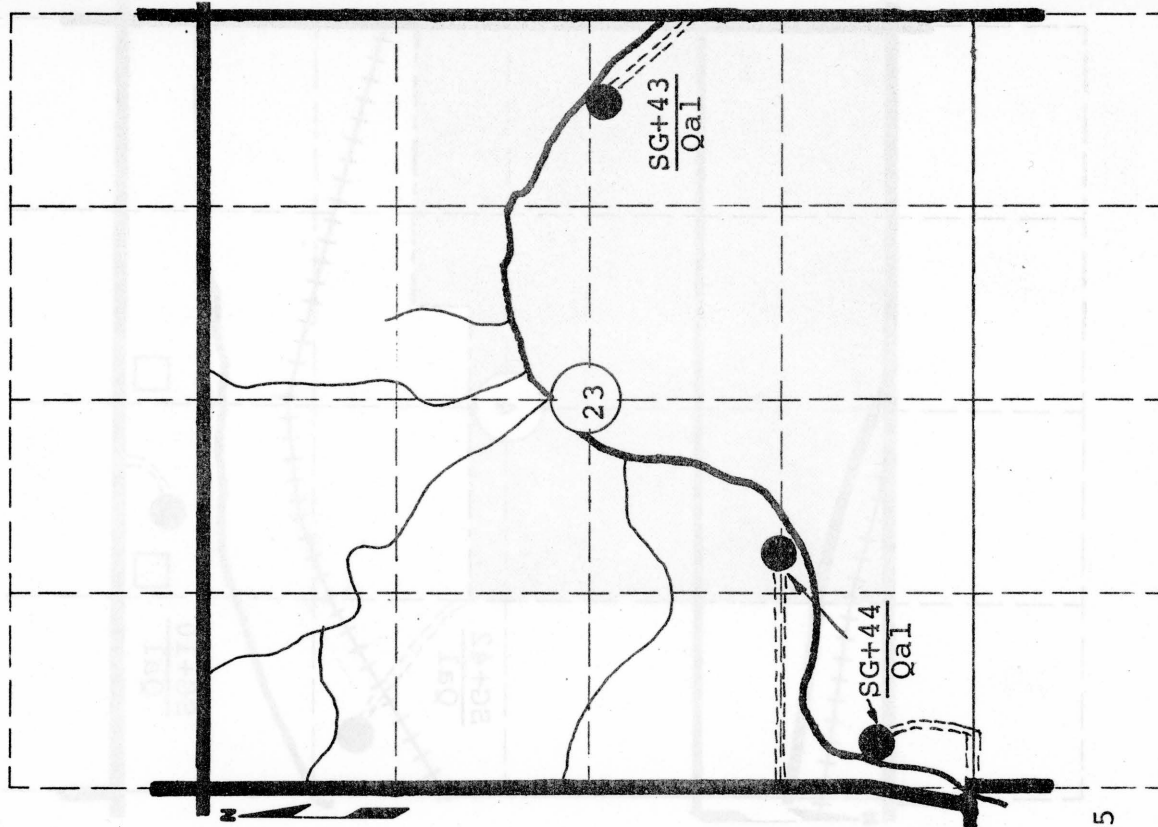
Site No. SG+43 Date February, 1967
Qal
 Material Sand & Gravel County Pratt
 Location NE 1/4 SE 1/4 Sec. 23 Twp. 28S Range 11W
 Owner Albert J. Bortz etux. RFD. 2 Cunningham, Kansas
 address
 Nature of Deposit Dry Accessibility Good
 Status of Site Open site; sampled

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	4	8	16	30	50					100
				0	1	8	21	50	83	97	99	100	3.60			
			</													

CORRELATION DATA

Geological Age Quaternary
 Geological Source Alluvium
 Material Similar To Material reported on SHC Form 633
 Lab. No. 1870
 Specific Gravity (Sat.) 2.62 (Dry)
 Los Angeles Weir 29.4 (D)
 Absorption 0.7 Soundness 0.95
 Wt. Cu.Ft. 107.4 Str. Ratio 1 day 1.32, 3 day 1.25
 Remarks Site location on Plate IV



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

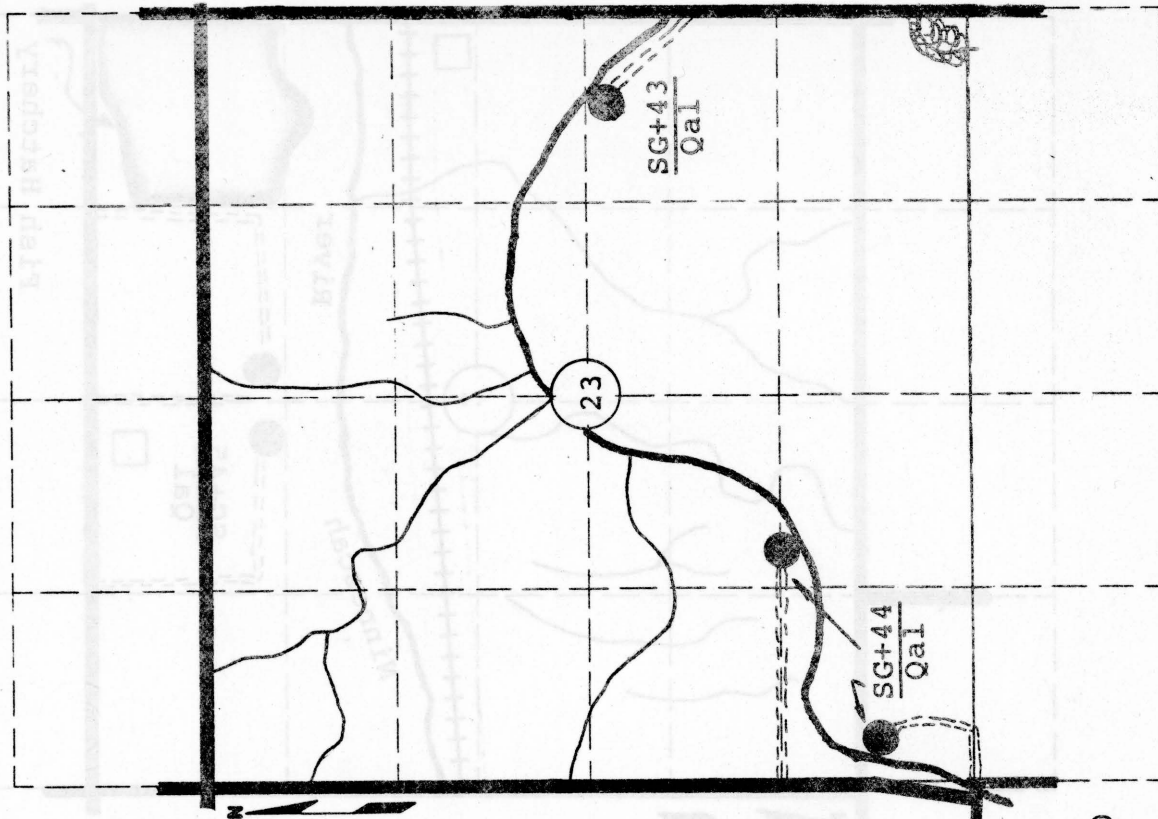
Site No. SG+44 Date February, 1967
Qal
 Material Sand & Gravel County Pratt
 Location SW $\frac{1}{4}$ Sec. 23 Twp. 28S Range 11W
 Owner Albert J. Bortz etux. RFD. 2, Cunningham, Kansas
 name address
 Nature of Deposit Dry Accessibility Good
 Status of Site Open site; sampled

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			
Average	0	0	0	0	0	2	7	18	36	59	87	98	0	3.04	
1		1	5	0	0	1	3	10	30	54	85	97	0	2.80	
3		4	6	0	1	4	8	20	39	65	87	97	0	3.21	

CORRELATION DATA

Geological Age Quaternary
 Geological Source Alluvium
 Material Similar To Material reported on SHC Form 619
#76-19. Lab. No. 82654
 Specific Gravity (Sat.) 2.61 (Dry) _____
 Los Angeles Wear 30.8 (D)
 Absorption _____ Soundness 0.96
 Wt. Cu.Ft. 113.3 Str. Ratio 1 day 1.34, 3 day 1.20
 Remarks Site location on Plate IV. Gradation data for
holes 1 & 3 represents the finest and coarsest material
that has been sampled at this site.



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

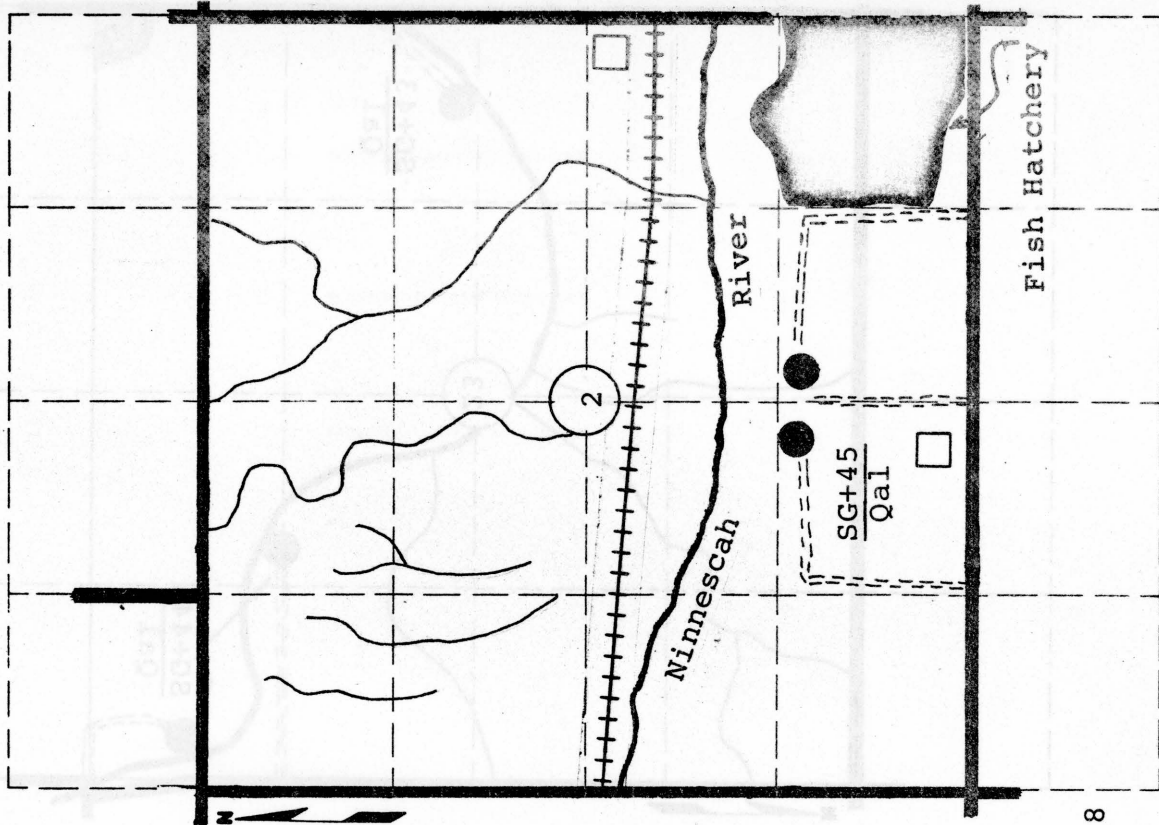
Site No. SG+45 Qal Date February, 1967
 Material Sand & Gravel County Pratt
 Location S $\frac{1}{2}$ Sec. 2 Twp. 28S Range 13W
 Owner See Remarks
 Nature of Deposit Wet Accessibility Good
 Status of Site Open site; sampled

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			
Stockpile				0	1	3	9	27	62	90	98	99	1	3.89	

CORRELATION DATA

Geological Age Quaternary
 Geological Source Alluvium
 Material Similar To Material reported on SHC Form 619
#76-21 (Revised) Lab. No. 9995
 Specific Gravity (sat.) 2.62 (dry)
 Los Angeles Wear 30.2 (D)
 Absorption 110.2 Soundness 0.98
 Wt. Cu.Ft. 110.2 Str. Ratio 1 day 1.29, 3 day 1.28
 Remarks Site location on Plate IV
Floyd M. Withers (SW $\frac{1}{4}$ SE $\frac{1}{4}$) RFD. 2 Pratt, Kansas
State of Kansas (SE $\frac{1}{4}$ SE $\frac{1}{4}$) State Fish Hatchery, Pratt, Kans.



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

MATERIAL SURVEY REPORT

SG-46
Qsgi

Site No. _____ Date February, 1967

Material Sand & Gravel County Pratt

Location NE 1/4 SE 1/4 Sec. 27 Twp. 27S Range 13W

Owner Ed Hoffman RFD. 1 Pratt, Kansas

Nature of Deposit Dry name Good 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	
Average	3	19	0	1	5	10	20	35	59	88	98	4	3.16
3	4	18	0	6	11	17	24	35	62	88	98	4	3.41
8	4	22	0	0	2	6	16	28	52	85	98	3	2.87

CORRELATION DATA

Geological Age Quaternary

Geological Source Grand Island Formation

Material Similar To Material reported on SHC Form 619

No. 76-32. Lab. No. 10618

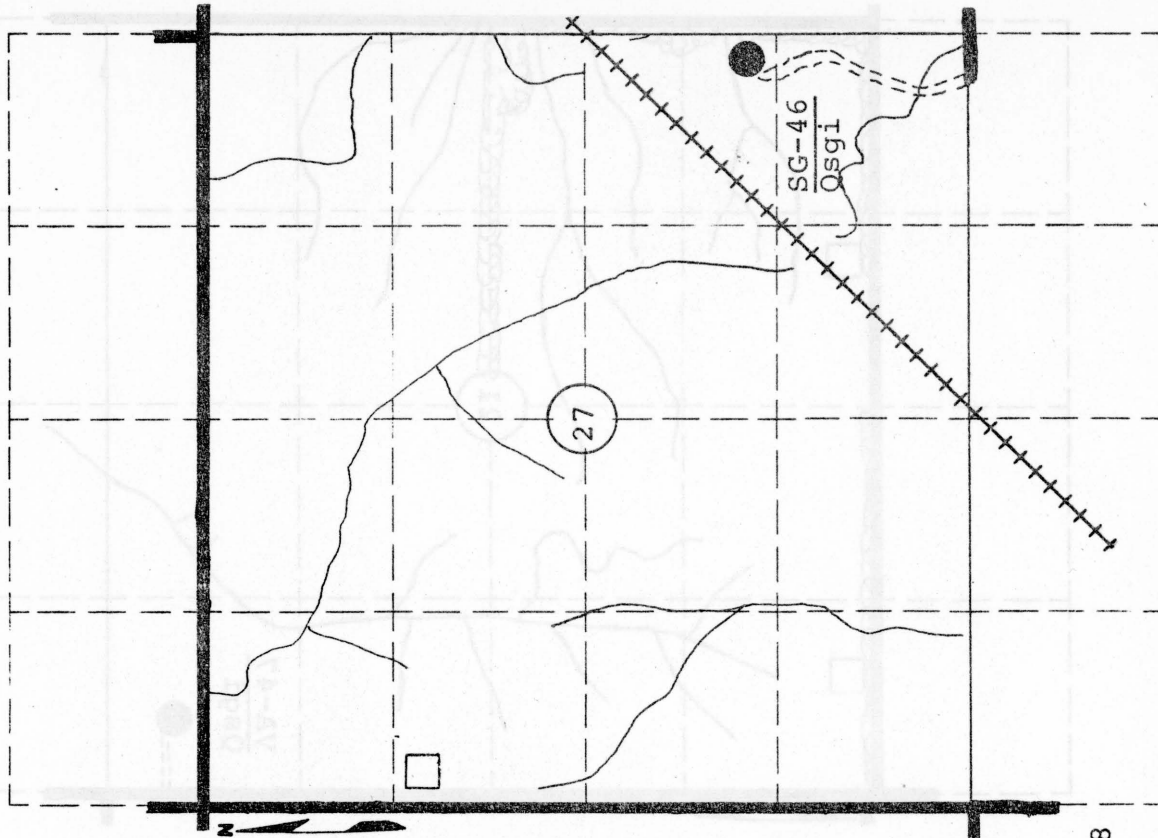
Specific Gravity (Sat.) 2.60 (Dry)

Los Angeles Wear 33.5

Absorption 109.57 Soundness .98

Wt. Cu.Ft. 1 day 1.04, 3 day 1.08 Str. Ratio

Remarks Gradation data for holes 3 & 8 represent the coarsest and finest material that has been sampled at this site. Site location on Plate IV.



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

VA-47
Qsg1

February, 1967

Site No. _____ Date _____
 Material Volcanic Ash County Pratt
 Location SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 21 Twp. 27S Range 12W
 Owner Anna Maas RFD. 1 Pratt, Kansas
 Nature of Deposit Dry Accessibility Good
 Status of Site Open site; sampled

EXPLORATION DATA

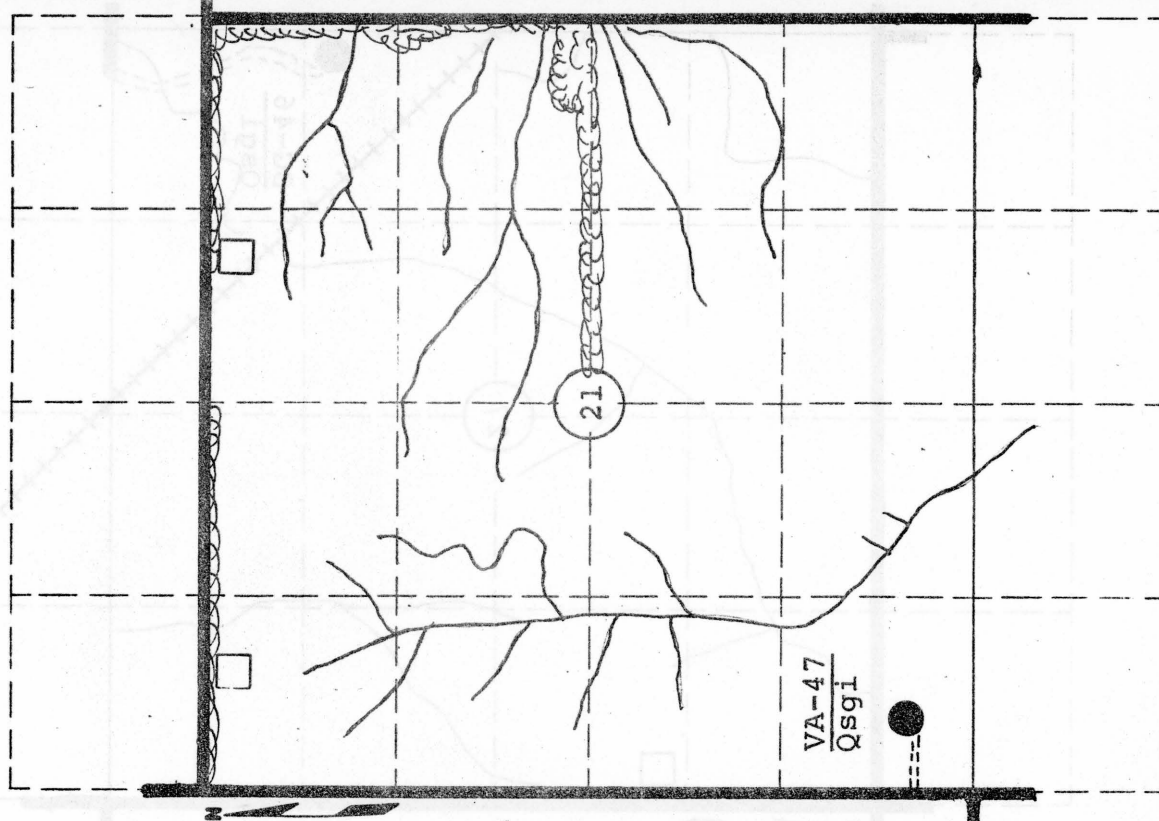
Test Hole	Material at Bottom of Hole	Depth of over-burden	Depth of Material	Percent Retained								Wash	L.L.	P.I.
				1 1/2	3/4	3/8	1/4	8	16	30	50	100	200	
Average		7	6	0	0	0	0	0	0	0	1	6	15	85
8		7	2	0	0	0	0	0	0	0	2	17	26	74
2		5	6	0	0	0	0	0	0	0	0	1	8	92

CORRELATION DATA

Geological Age Quaternary
 Geological Source Sappa Formation
 Material Similar To Material reported on SHC Form 619
 #76-10

Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____

Wt. Cu.ft. _____ Str. Ratio _____
 Remarks Gradation data for holes 2 and 8 represent the finest and coarsest material that has been sampled at this site. Site location on Plate IV



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

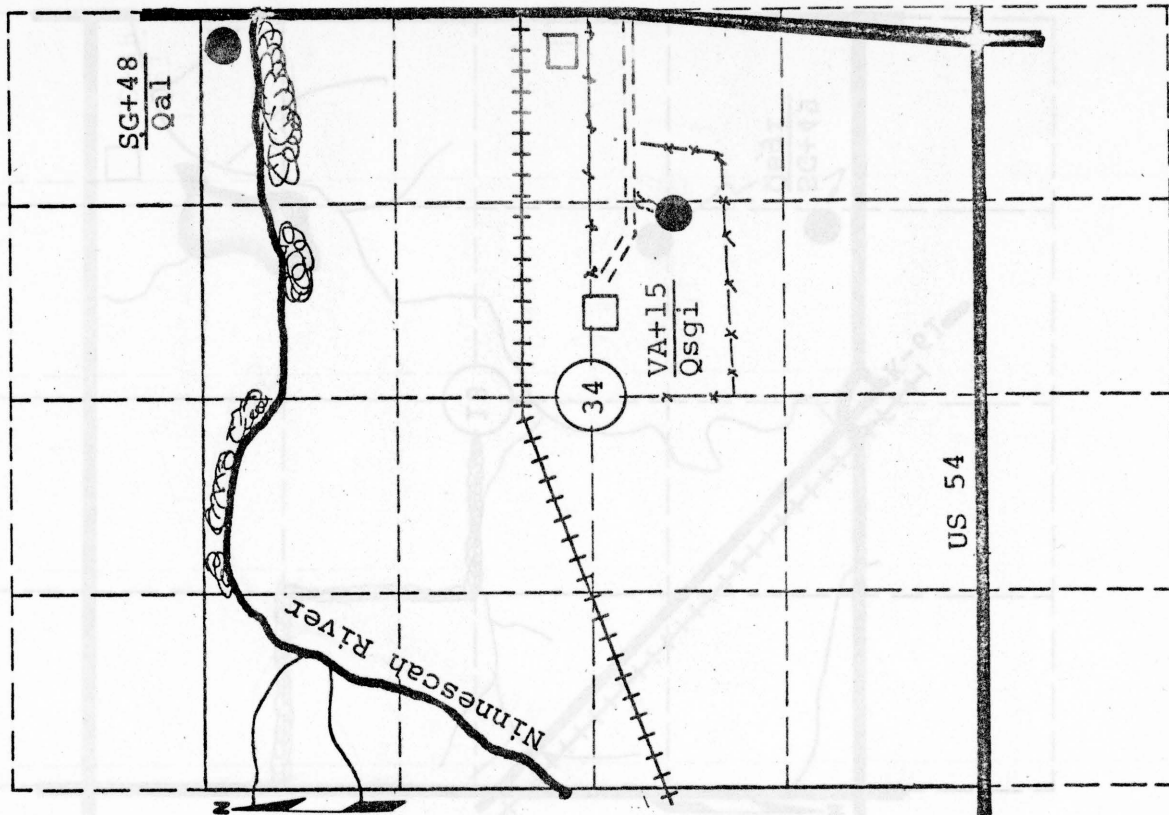
Site No. SG+48 Date February, 1967
Qal
 Material Sand & Gravel County Pratt
 Location NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 34 Twp. 27S Range 12W
 Owner Ethel Barker 208 S. Pine Pratt, Kansas
 Name Wet address
 Nature of Deposit Open site; sampled Accessibility Good
 Status of Site Open site; sampled

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	19	38	66	86	96	99	63	4.11				
										</						

CORRELATION DATA

Geological Age Quaternary
 Geological Source Alluvium
 Material Similar To Material reported on SHC Form 633
 Lab. No. 65069
 Specific Gravity (Sat.) 2.61 (Dry)
 Los Angeles Wear 30.2 (D)
 Absorption 0.99
 Shrinkage Ratio 1 day 1.76, 3 day 3.02
 Remarks Site location on Plate IV



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

Site No. SG+49 Date February, 1967
Qsgi
 Material Sand & Gravel County Pratt
 Location NE 1/4 Sec. 18 Twp. 27S Range 12W
 Owner Gustave Seidel RFD. 1 Pratt, Kansas
 name address
 Nature of Deposit Dry Accessibility Good
 Status of Site Open site; sampled

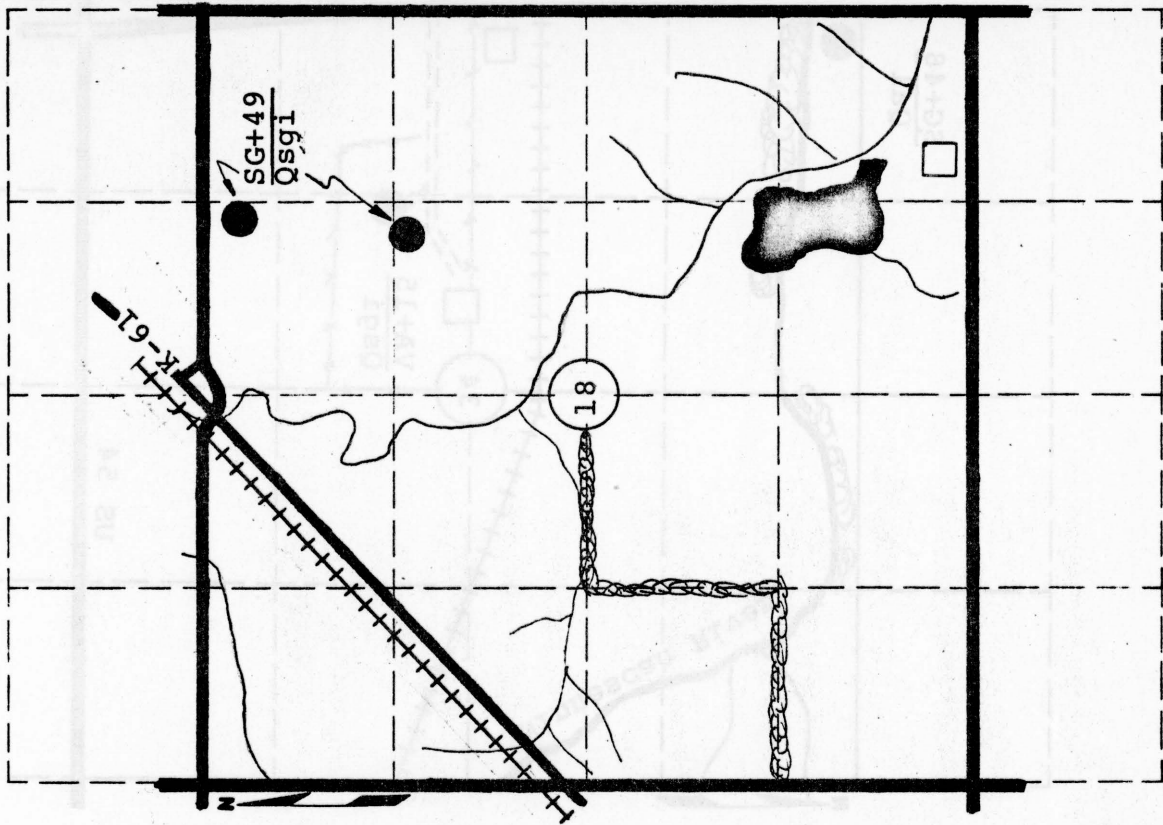
EXPLORATION DATA

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
1		0	0	0	1	4	11	22	38	61	86	93	7	3.16		

CORRELATION DATA

Geological Age Quaternary
 Geological Source Grand Island Formation
 Material Similar To Material reported on SHC Form
#76-22

Specific Gravity (Sat.) 2.60 (Dry)
 Los Angeles Wear 31.3
 Absorption 104.3 Soundness 0.99
 Wt. Cu.ft. 1 day 1.11, 3 day 1.13 Str. Ratio
 Remarks Site location on Plate IV



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

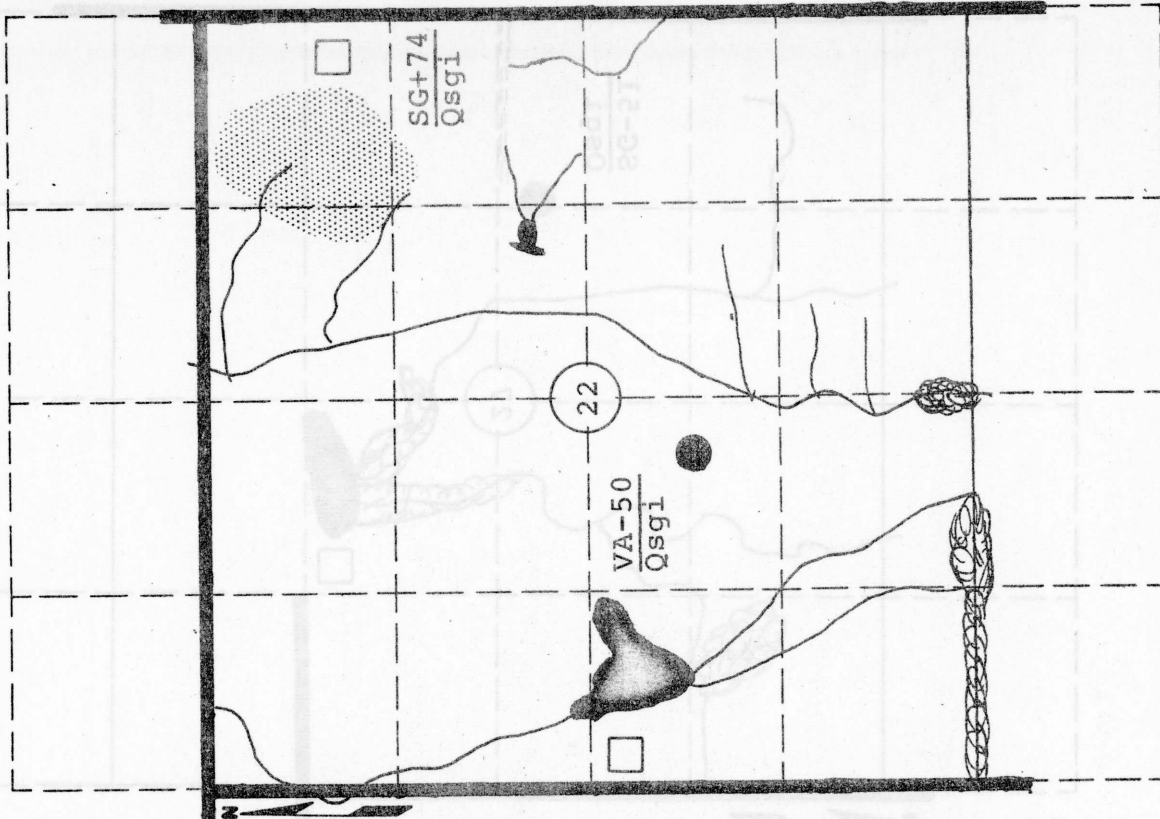
Site No. VA-50 Date February, 1967
Qsg1
 Material Volcanic Ash County Pratt
 Location NE 1/4 SW 1/4 Sec. 22 Twp. 27S Range 12W
 Owner Galen Barker RFD. 1 Pratt, Kansas
 name address
 Nature of Deposit Dry Accessibility Poor
 Status of Site Open site; sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of over-Burden	Depth of Material	Percent Retained									Wash	L.L.	P. I.	
				1 1/2	3/4	3/8	4	8	16	30	50	100				200
				0	0	0	0	0	0	0	1	6	33	67		
								</								

CORRELATION DATA

Geological Age Quaternary
 Geological Source Sappa Formation
 Material Similar To Material reported on SHC Form 619 #76-12.
 Lab. No. 49524 on form 623.
 Specific Gravity (Sat.) 2.38 (Dry)
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu.ft. 60.4 Str. Ratio _____
 Remarks Site location on Plate IV



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

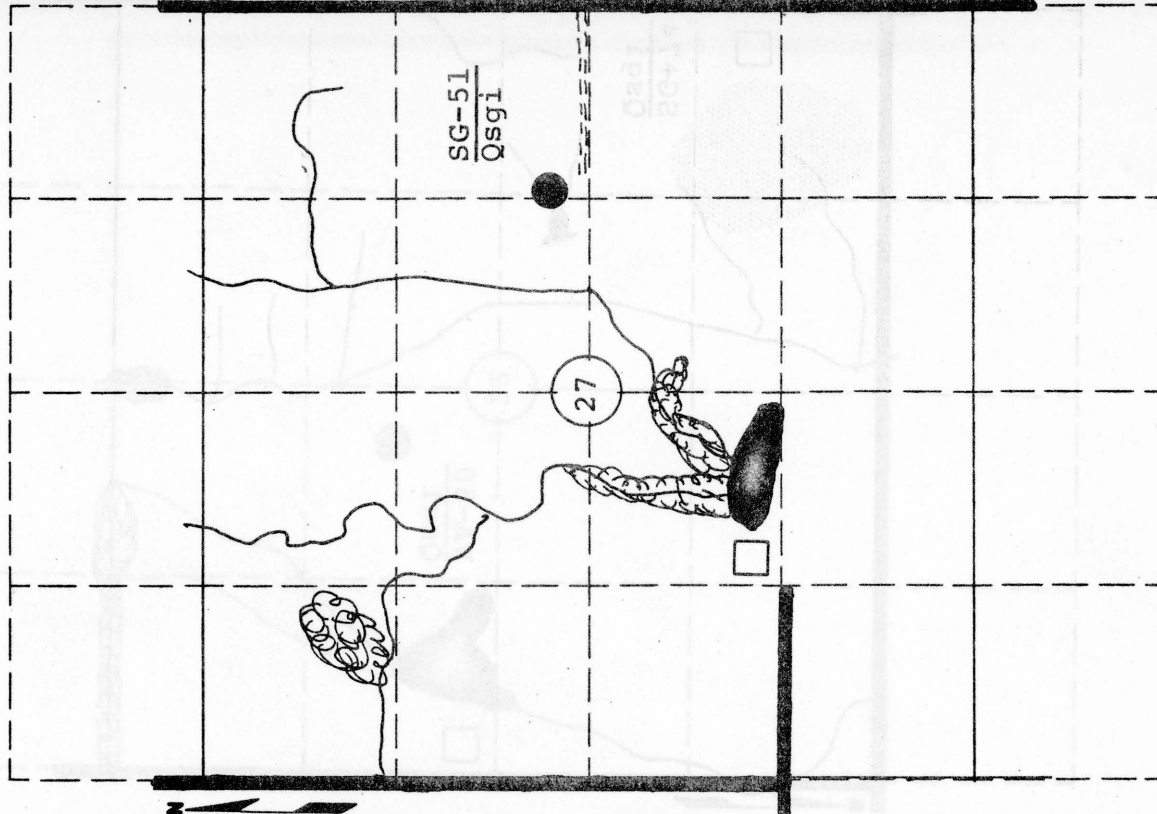
Site No. SG-51 Date February, 1967
Qsgi
 Material Sand & Gravel County Pratt
 Location NE 1/4 Sec. 27 Twp. 27S Range 12W
 Owner Galen Barker RFD. 1 Pratt, Kansas
 Name address
 Nature of Deposit Dry Accessibility Fair
 Status of Site Open site; sampled

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			
Average	3	5	0	2	8	18	34	52	75	92	99	3	3.81		
3		4	6	0	1	4	12	27	47	70	90	98	4	3.49	
31		2	3	0	6	12	26	44	63	83	95	99	4	4.28	

CORRELATION DATA

Geological Age Quaternary
 Geological Source Grand Island Formation
 Material Similar To Material reported on SHC Form 619
 #76-3
 Specific Gravity (sat.) 2.57 (dry) _____
 Los Angeles Wear 35.6 (D)
 Absorption _____ Soundness 0.97
 Wt. Cu.Ft. 103.8 Str. Ratio 1 day 1.12, 3 day 1.18
 Remarks Gradation data for holes 3 & 31 represent the coarsest and finest material sampled at this site.
 Site location on Plate IV



MATERIAL SURVEY REPORT

SG+52
Qsgl
 Site No. _____ Date February, 1967
 Material Sand & Gravel County Pratt
 Location NW 1/4 Sec. 23 Twp. 29S Range 15W
 Owner Santa Fe Land & Imp. Co. See Remarks
 Name _____ Address _____
 Nature of Deposit Dry Accessibility POOR
 Status of Site Open site; sampled

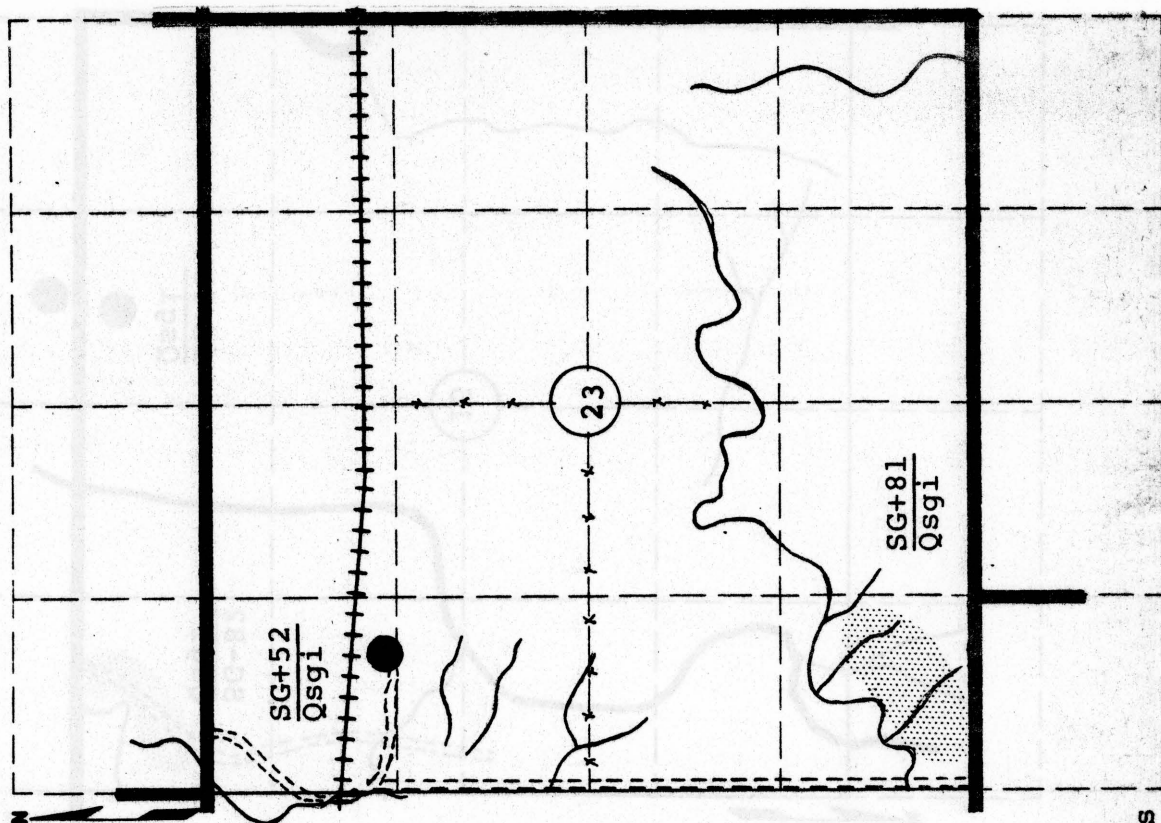
EXPLORATION DATA

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	16	30	50	100				
Average	3	15	0	7	12	19	27	42	63	87	98	3	3.55		
17		2	20	0	15	20	34	42	55	68	90	98	2	4.22	
5		3	12	0	1	4	8	15	25	41	71	93	8	2.58	

CORRELATION DATA

Geological Age Quaternary
 Geological Source Grand Island Formation
 Material Similar To Material reported on SHC Form 619 #76-14.
 Lab. No. 62305
 Specific Gravity (sat.) 2.56 (dry) _____
 Los Angeles Wear 37.0 (C)
 Absorption _____ Soundness 0.96
 Mt. Cu.Ft. 110.8 Str. Ratio 1 day 1.28, 3 day 1.28

Remarks Site location on Plate V. Gradation data for holes 17 & 5 represent the finest and coarsest material that has been sampled at this site.
Room 1203, 900 Polk St., Amarillo, Texas



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

SG+53

Qsgi

Site No. _____ Date February, 1967
 Material Sand & Gravel County Pratt
 Location SE 1/4 Sec. 15 Twp. 29S Range 15W
 Owner Blanche V. Hogard 507 S. Mound Pratt, Kansas
 Nature of Deposit Dry Accessibility Good
 Status of Site Open site; sampled

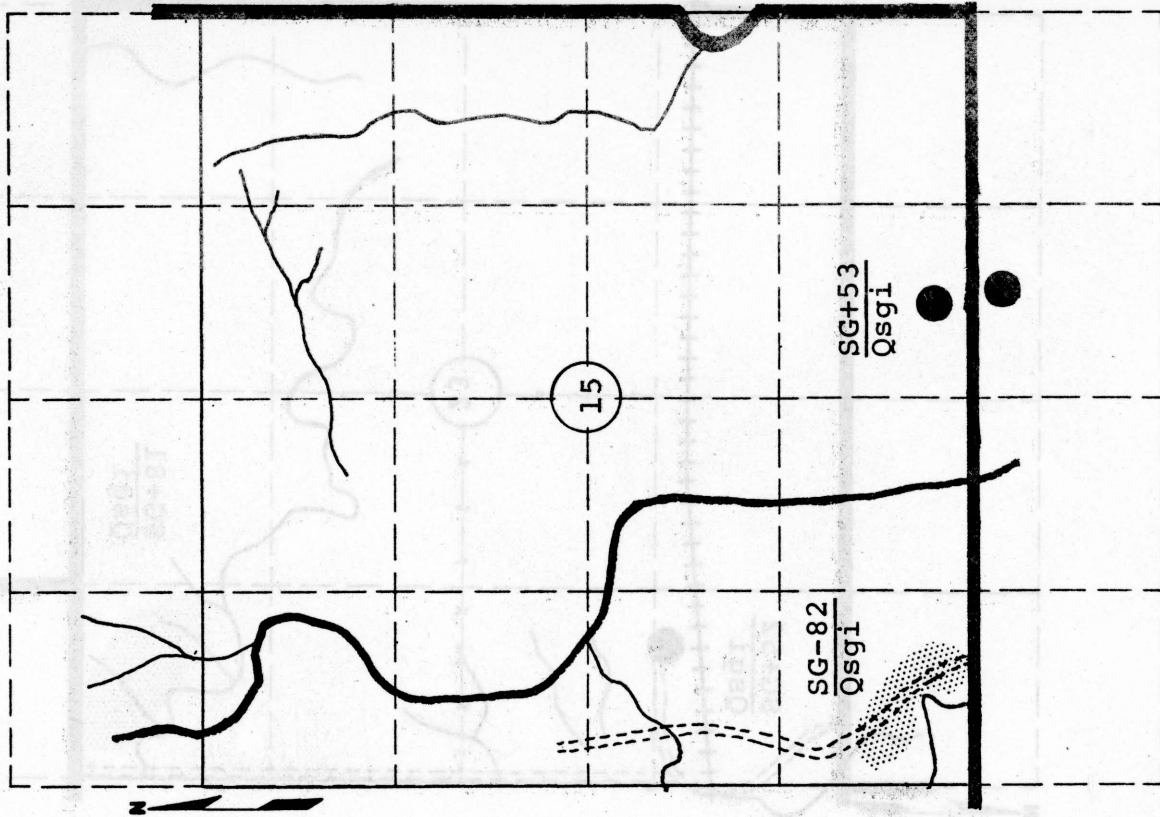
EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of over-burden	Depth of Material	Percent Retained								Wash 200	G.F.	L.L.	P.I.
				1/2	3/4	3/8	4	8	16	30	50	100			
Average	1	12	0	8	15	23	35	49	67	86	94	2	3.69		
3		16	0	19	26	35	48	63	79	94	95	2	4.40		
1		0	10	0	4	9	15	22	29	55	89	97	1	3.16	

CORRELATION DATA

Geological Age Quaternary
 Geological Source Grand Island Formation
 Material Similar To Material reported on SHC Form 619
 No. 76-30

Specific Gravity (Sat.) 2.62 (Dry)
 Los Angeles Wear 25.8 (D)
 Absorption 0.50 Soundness 0.98
 Wt. Cu.ft. 112.7 Str. Ratio 1 day 1.45, 3 day 1.33
 Remarks Site location on Plate V. Gradation data for holes 1 & 3 represent the finest and coarsest material that has been sampled at this site.



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

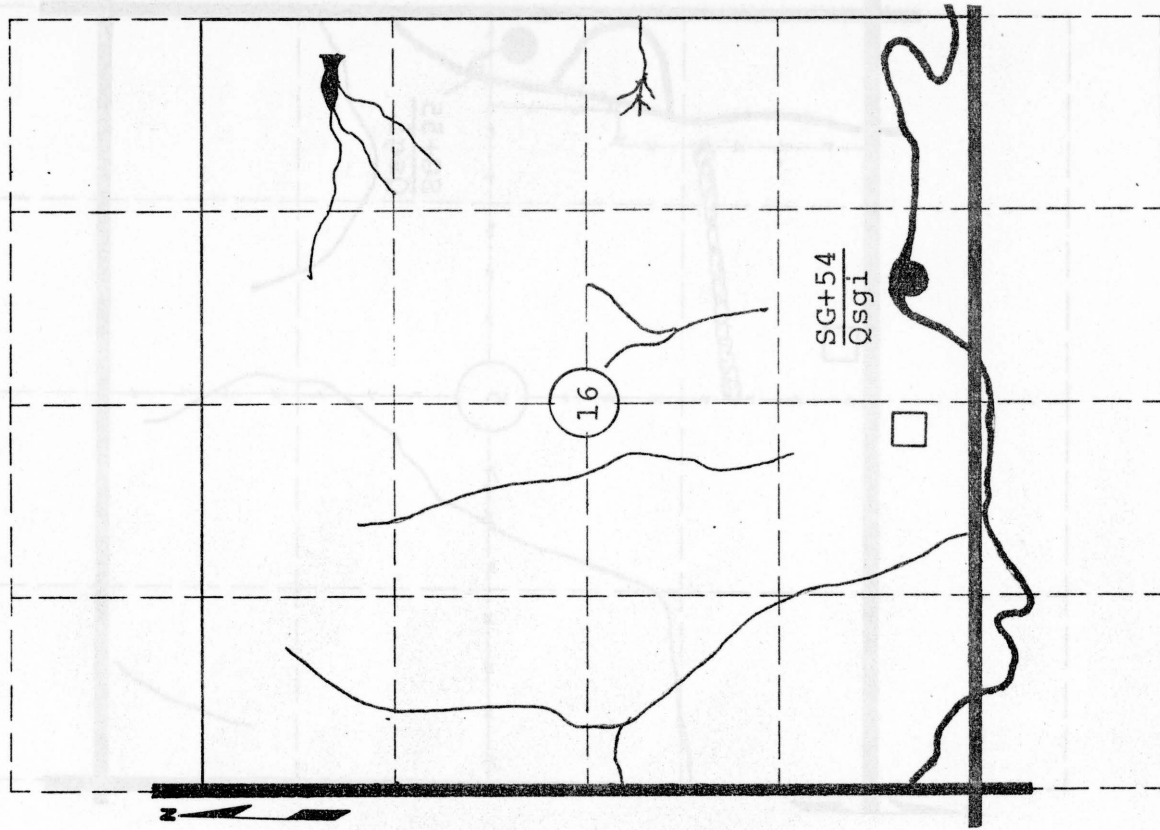
Site No. SG+54 Date February, 1967
Qsg1
 Material Sand & Gravel County Pratt
 Location SW 1/4 SE 1/4 Sec. 16 Twp. 29S Range 15W
 Owner Emma Perdue .609 Curtis Pratt, Kansas
 name address
 Nature of Deposit Dry Accessibility Fair
 Status of Site Open site; sampled

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			
Average	1 1/2	14	0	3	10	19	32	48	68	89	96	3	3.66		
2		1	14	0	6	18	28	42	58	76	91	95	4	4.14	
5		1	16	0	2	6	12	21	38	60	85	96	3	3.20	

CORRELATION DATA

Geological Age Quaternary
 Geological Source Grand Island Formation
 Material Similar To Material reported on SHC Form 619 #76-4
 Lab. No. 81799
 Specific Gravity (Sat.) 2.60 (Dry)
 Los Angeles Wear 33.7
 Absorption 110.8 Soundness 0.99
 Wt. Cu.Ft. 1 day 1.35, 3 day 1.39 Str. Ratio
 Remarks Site location on Plate V. Gradation data for holes 2 & 5 represent the finest and coarsest material that has been sampled at this site.



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

Site No. SG+55 Date February, 1967
Qsgi
 Material Sand & Gravel County Pratt
 Location SE 1/4 NE 1/4 Sec. 5 Twp. 29S Range 15W
 Owner Fred R. Cox Haviland, Kansas
 Name Dry address
 Nature of Deposit Dry Accessibility Good
 Status of Site Open site; sampled

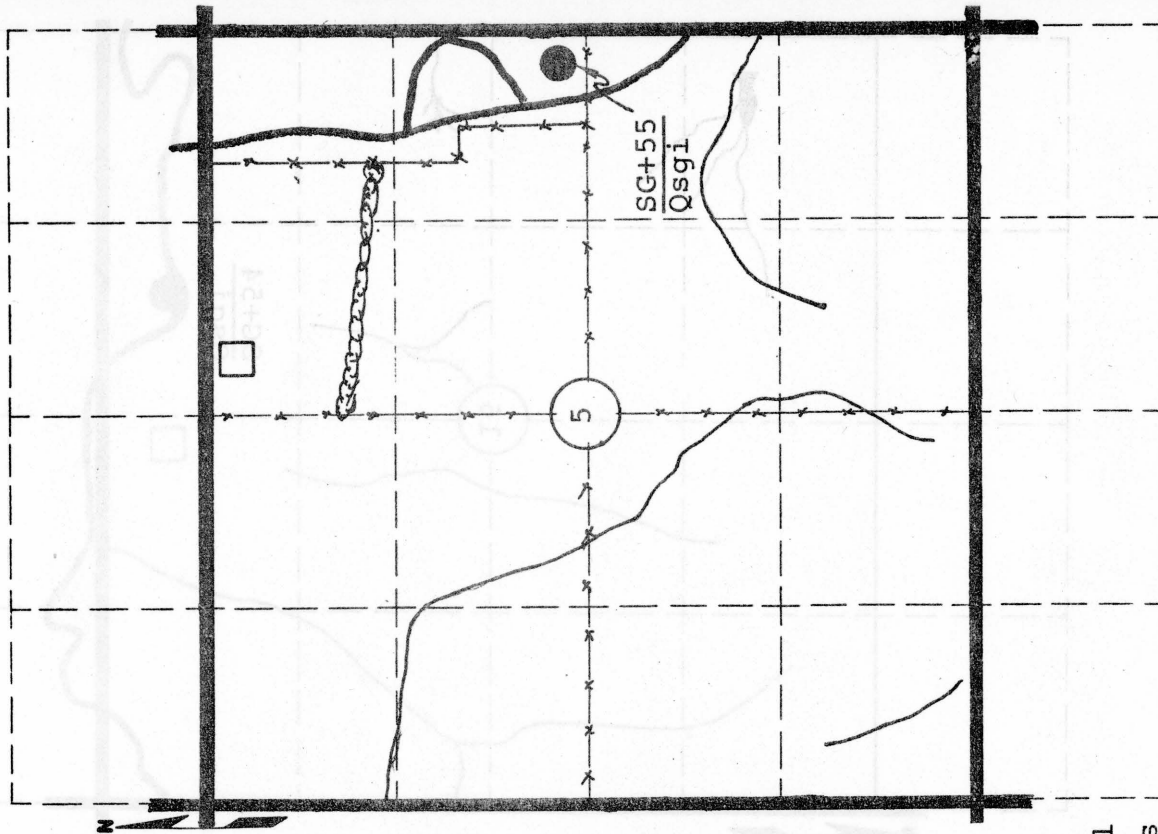
EXPLORATION DATA

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			
Average	0	3	0	44	9	16	29	48	77	96	99	2	3.76		
21	0	2	0	2	8	25	48	63	80	97	99	2	4.22		
1	0	2	0	0	2	5	13	23	50	91	98	1	2.82		

CORRELATION DATA

Geological Age Quaternary
 Geological Source Grand Island Formation
 Material Similar To Material reported on SHC Form 619 #76-9.
 Lab. No. 62306
 Specific Gravity (Sat.) 2.62 (Dry)
 Los Angeles Wear 27.4
 Absorption 118.9 Soundness 1 day 1.67, 3 day 1.51
 Wt. Cu.Ft. Site location on Plate V. Gradation data for holes
 Remarks 1 & 21 represent the finest and coarsest material that
has been sampled at this site.

Scale: 1" = 1/4 Mile



MATERIAL SURVEY REPORT

Site No. SG+56 Date February, 1967
Qsgi
 Material Sand & Gravel County Pratt
 Location NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 27 Twp. 29S Range 15W
 Owner Glen L. Hogard Sun City, Kansas
 name address
 Nature of Deposit Dry Accessibility Good
 Status of Site Open site; sampled

EXPLORATION DATA

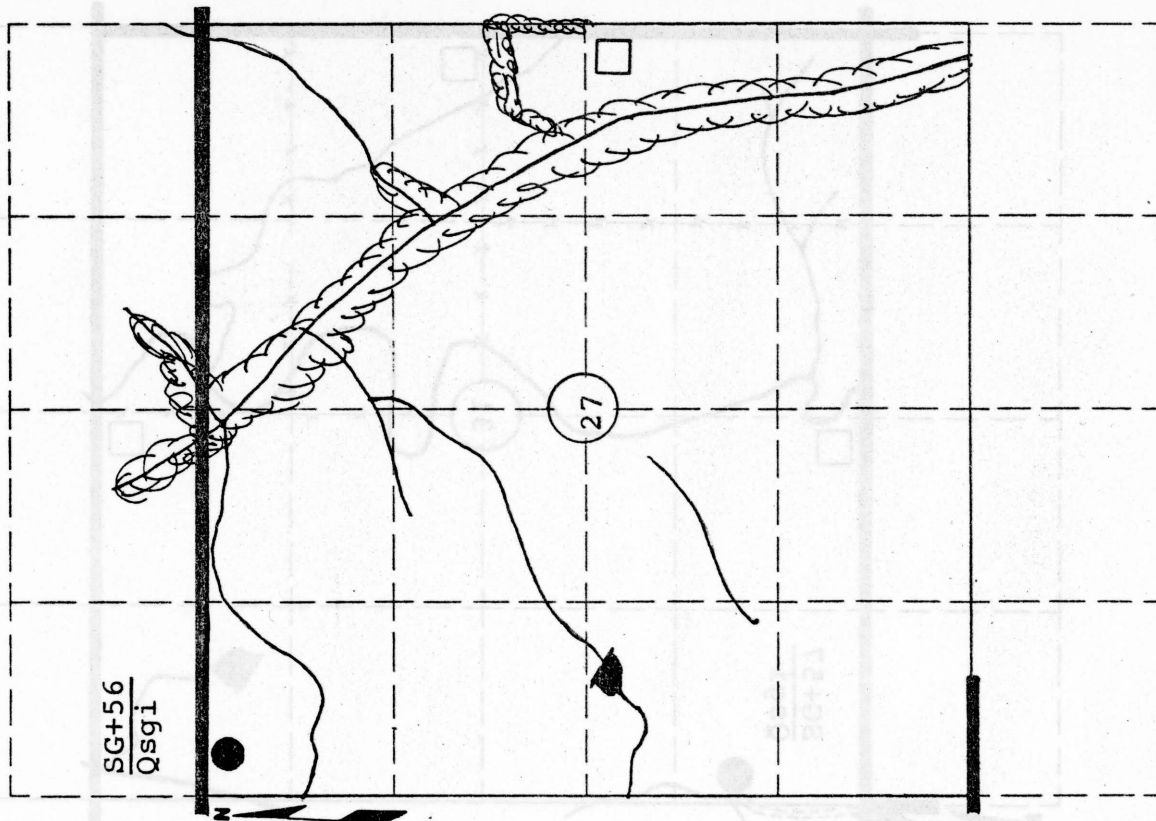
Test Hole	Material at Bottom of Hole	Depth of over-burden	Depth of Material	Percent Retained								Wash 200	G.F.	L.L.	P.I.
				1 1/2	3/4	3/8	4	8	16	30	50	100			
Average		2	8	2	9	16	25	36	54	73	85	98	3	4.07	
1		1	11	10	16	22	32	47	66	84	96	99	2	4.72	
12		4	9	0	0	3	9	16	29	53	88	98	4	2.96	

CORRELATION DATA

Geological Age Quaternary
 Geological Source Grand Island Formation
 Material Similar To Material reported on SHC Form 619. #76-5
 Lab. No. 81307

Specific Gravity (Sat.) 2.60 (Dry) _____
 Los Angeles Wear 27.6
 Absorption _____ Soundness 0.99
 Wt. Cu.Ft. 116.2 Str. Ratio 1 day 1.32, 3 day 1.18

Remarks Site location on Plate V. Gradation data for holes 1 & 12 represent the finest and coarsest material that has been sampled at this site.



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

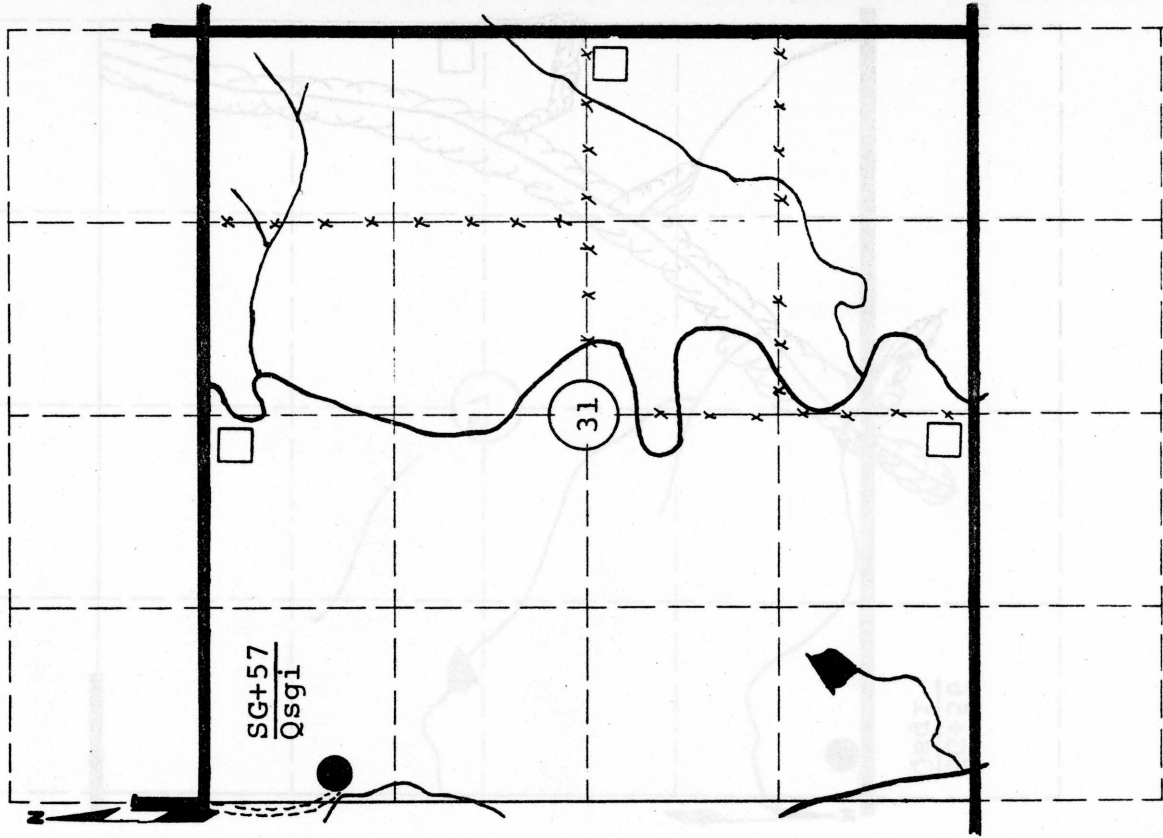
Site No. SG+57 Date February, 1967
Qsgi
 Material Sand & Gravel County Pratt
 Location NW $\frac{1}{4}$ 31 Sec. 29S Range 13W
Coats, Kansas
 Owner Merle E. Lambert
 Name Dry Address Good
 Nature of Deposit Open site; sampled
 Status of Site Open site; sampled

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			
Average	4	12	0	4	10	17	26	40	62	89	98	5	3.45		
1	2	14	0	6	13	24	40	62	89	98	99	2	3.88		
7	5	11	0	3	7	11	17	27	50	86	98	6	2.99		

CORRELATION DATA

Geological Age Quaternary
 Geological Source Grand Island Formation
 Material Similar To Material reported on SHC Form 619 #76-31.
 Lab. No. 10617
 Specific Gravity (Sat.) 2.60 (Dry)
 Los Angeles Wear 35.5
 Absorption .98
 Mt. Cu.Ft. 112.37 Str. Ratio 1 day 1.04, 3 day 1.10
 Remarks Site location on Plate V. Gradation data for holes 1 & 7 represent the finest and coarsest material that has been sampled at this site.



MATERIAL SURVEY REPORT

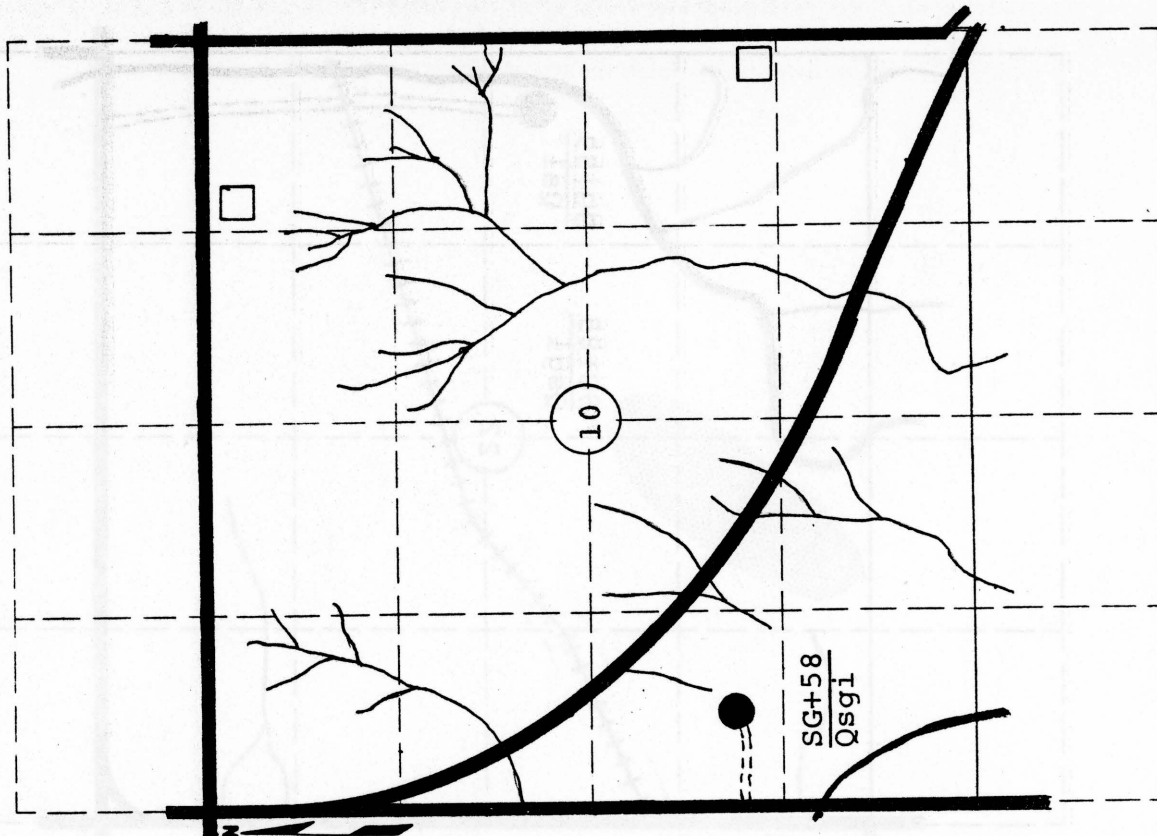
Site No. SG+58 Date February, 1967
Qsg1
 Material Sand & Gravel County Pratt
 Location SW $\frac{1}{4}$ Sec. 10 Twp. 29S Range 13W
Alice Frantz 420 N. Pine Pratt, Kansas
 Owner Dry name Good address
 Nature of Deposit Dry Accessibility Good
 Status of Site Open site; sampled

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
						5	11	25	40	63	90	97	2	3.29		

CORRELATION DATA

Geological Age Quaternary
 Geological Source Grand Island Formation
 Material Similar To Material reported on SHC Form 633
 Lab. No. 54740
 Specific Gravity (Sat.) 2.60 (Dry)
 Los Angeles Wear 28.2 (D)
 Absorption 0.98
 Soundness 1 day 1.46, 3 day 1.35
 Wt. Cu.Ft. 108.4 Str. Ratio
 Remarks Site location on Plate VI



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

SG+59
Qal

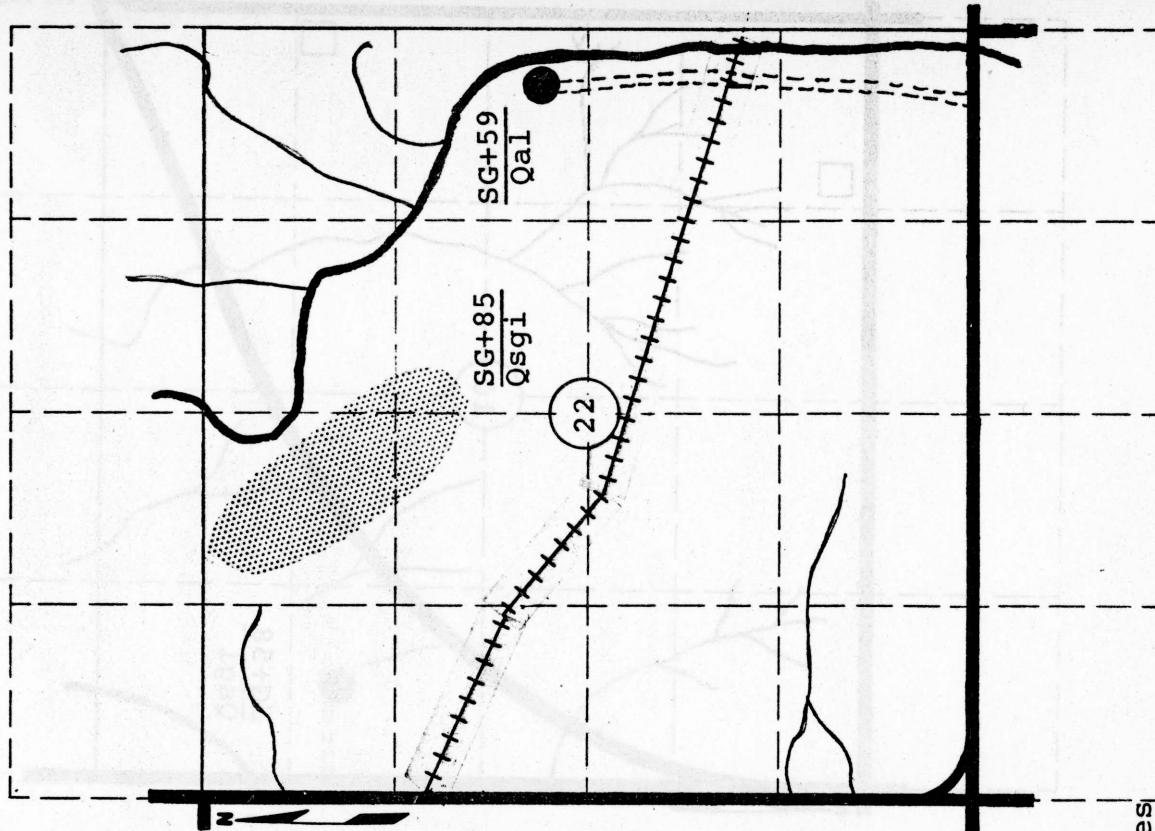
Site No. _____ Date February, 1967
 Material Sand & Gravel County Pratt
 Location NE 1/4 Sec. 22 Twp. 29S Range 13W
 Owner Leslie H. Pitzer etux. RFD. 2 Pratt, Kansas
 Nature of Deposit Dry Accessability Poor
 Status of Site Open site; sampled

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 1/2	3/4	3/8	4	8	16	30	50				
Average	0	0	0	2	8	18	34	53	77	97	100	3.83			
3	4	6	0	1	4	8	20	39	65	87	97	0	3.21		
1	1	5	0	0	1	3	10	30	54	85	97	0	2.80		

CORRELATION DATA

Geological Age Quaternary
 Geological Source Alluvium
 Material Similar To Material reported on SHC Form 619 #76-18.
 Lab. No. 62310
 Specific Gravity (Sat.) 2.59 (Dry)
 Los Angeles Wear 33.2 (C)
 Absorption _____ Soundness 0.99
 Wt. Cu.Ft. 107.0 Str. Ratio 1 day 1.38, 3 day 1.42
 Remarks Site location on Plate VI. Gradation data for holes 1 & 3 represents the finest and coarsest material that has been sampled at this site.



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

Site No. SG-60 Date February, 1967
Qsgi
 Material Sand & Gravel County Pratt
 Location NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 15 Twp. 29S Range 13W
 Owner Leslie H. Pitzer etux. RFD. 2 Pratt, Kansas
 Nature of Deposit Dry name Accessibility Fair address
 Status of Site Open site; sampled

EXPLORATION DATA

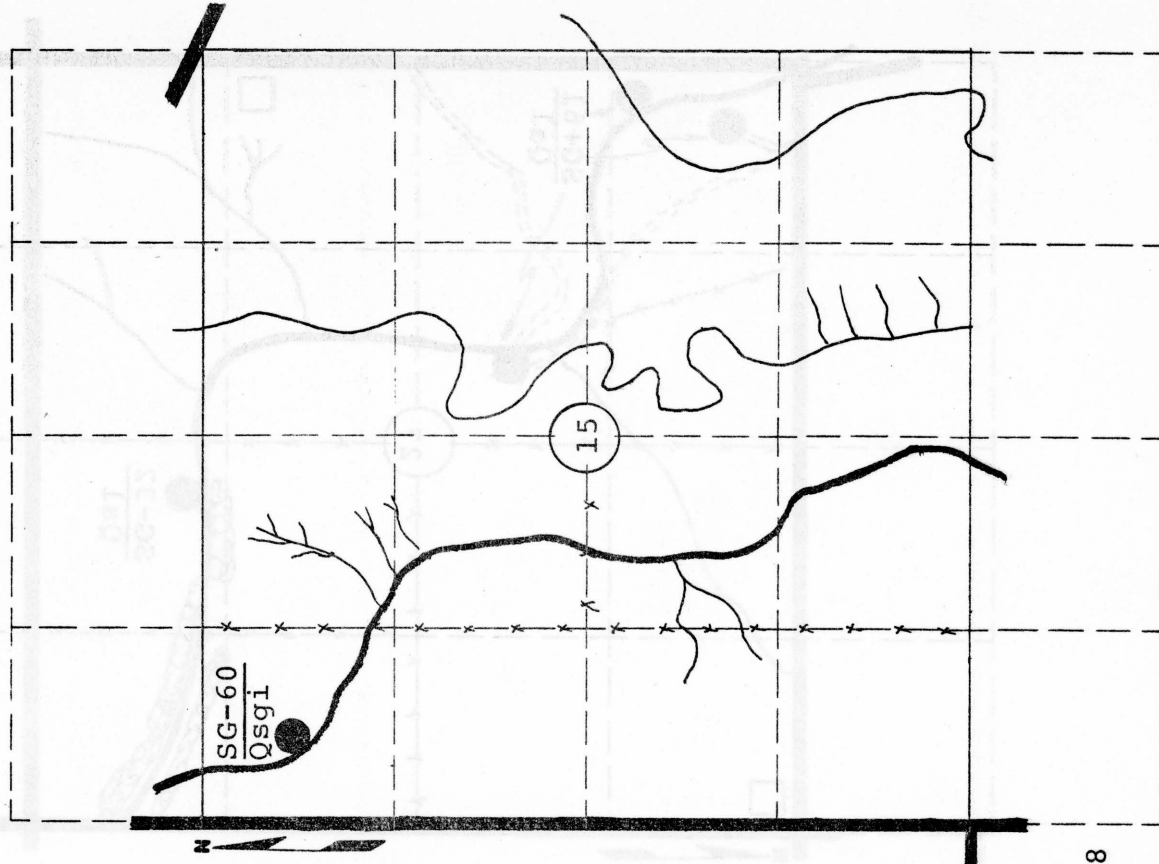
Test Hole	Material at Bottom of Hole	Depth of over-burden	Depth of Material	Percent Retained								Wash 200	G.F.	L.L.	P.I.	
				1 1/2	3/4	3/8	4	8	16	30	50					100
Average		½	5	0	4	8	19	34	49	71	92	99		3.77		
1		0	2½	0	5	12	22	36	54	77	94	100		3.99		
5		½	6½	0	2	5	16	33	48	64	89	98		3.55		

CORRELATION DATA

Geological Age Quaternary
 Geological Source Grand Island Formation
 Material Similar To Material reported on SHC Form 619 #76-1.
 Lab. No. 62309

Specific Gravity (Sat.) 2.61 (Dry)
 Los Angeles Wear 33.2 (C)
 Absorption 0.97 Soundness 0.97

Wt. Cu.Ft. 111.4 Str. Ratio 1 day 1.64, 3 day 1.48
 Remarks Site location on Plate VI. Gradation data for holes 1 & 5 represent the finest and coarsest material that has been sampled at this site.

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

MATERIAL SURVEY REPORT

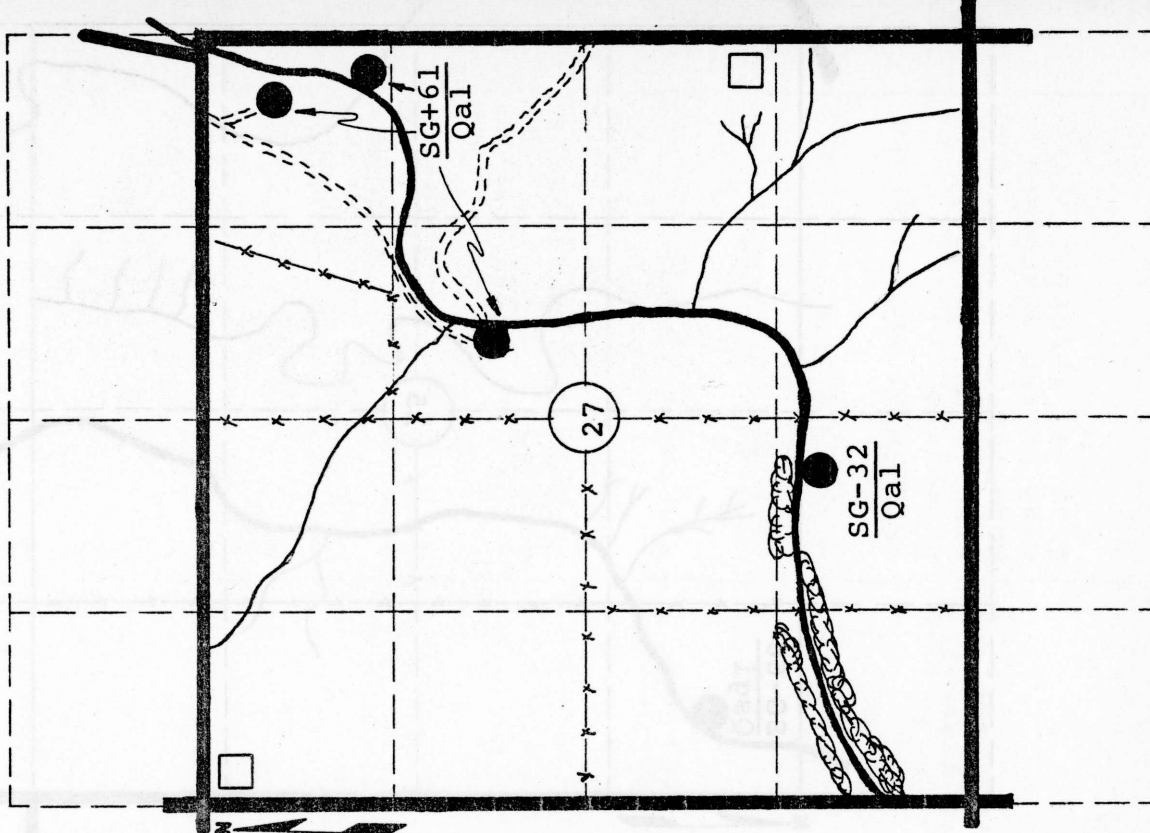
SG+61
Qal
 Site No. _____ Date February, 1967
 Material Sand & Gravel County Pratt
 Location NE $\frac{1}{4}$ Sec. 27 Twp. 28S Range 11W
Ivan O. Rose 613 N. Ash, Wichita, Kansas
 Owner _____ address _____
 Nature of Deposit Dry Accessibility Good
 Status of Site Open site; sampled

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				
				1	4	9	24	53	74	92	98	1	3.55		

CORRELATION DATA

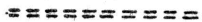
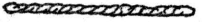
Geological Age Quaternary
 Geological Source Alluvium
 Material Similar To Material reported on SHC Form 619 #76-2.
 Test data from SHC Form 633. Lab. No. 44512
 Specific Gravity (Sat.) 2.62 (Dry) _____
 Los Angeles Wear 30.0 (D)
 Absorption _____ Soundness 0.97
 Wt. Cu.Ft. 116.0 Str. Ratio 1 day 1.34, 3 day 1.22
 Remarks Site location on Plate VI

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

APPENDIX III

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

STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

FS-62
Qds

Site No. _____ Date February, 1967

Material Fine Sand County Pratt

Location NW 1/4 Sec. 28 Twp. 26S Range 11W

Owner Ethie H. Koenemann Penaloza, Kansas
name address

Nature of Deposit Dry Accessibility Good

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	L.L.	P.I.
				1 1/2	3/4	3/8	4	8	16	30	50	100		
Average		0	4	0	0	0	0	0	0	3	22	57	72	28
2		0	4	0	0	0	0	0	0	3	24	61	77	23
3		0	4	0	0	0	0	0	0	2	18	53	68	32

CORRELATION DATA

Geological Age Quaternary

Geological Source Dune Sand

Material Similar To Material reported on SHC Form 619 #76-13

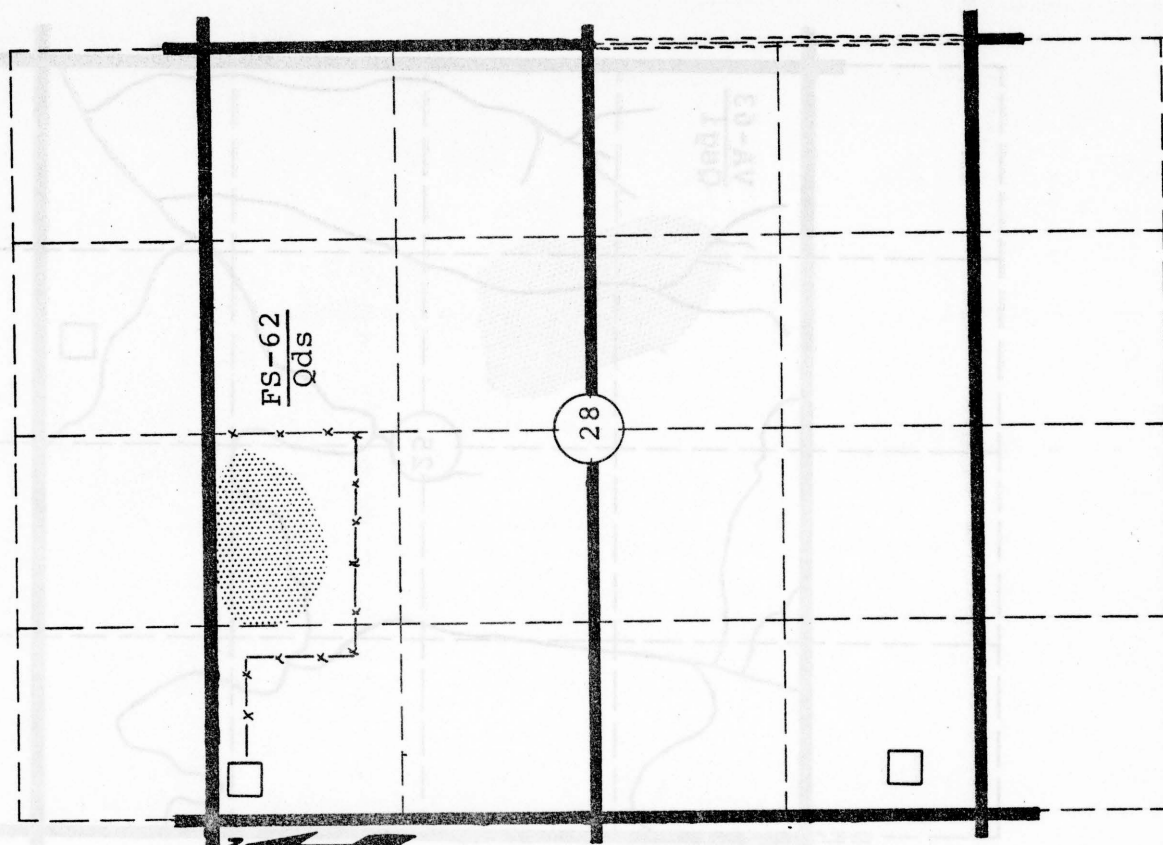
Specific Gravity (Sat.) _____ (dry)

Los Angeles Wear _____

Absorption _____ Soundness _____

Wt. Cu.Ft. _____ Str. Ratio _____

Remarks Gradation data for holes 2 & 3 represent the finest and coarsest material that has been sampled at this site. Site location on Plate II



MATERIAL SURVEY REPORT

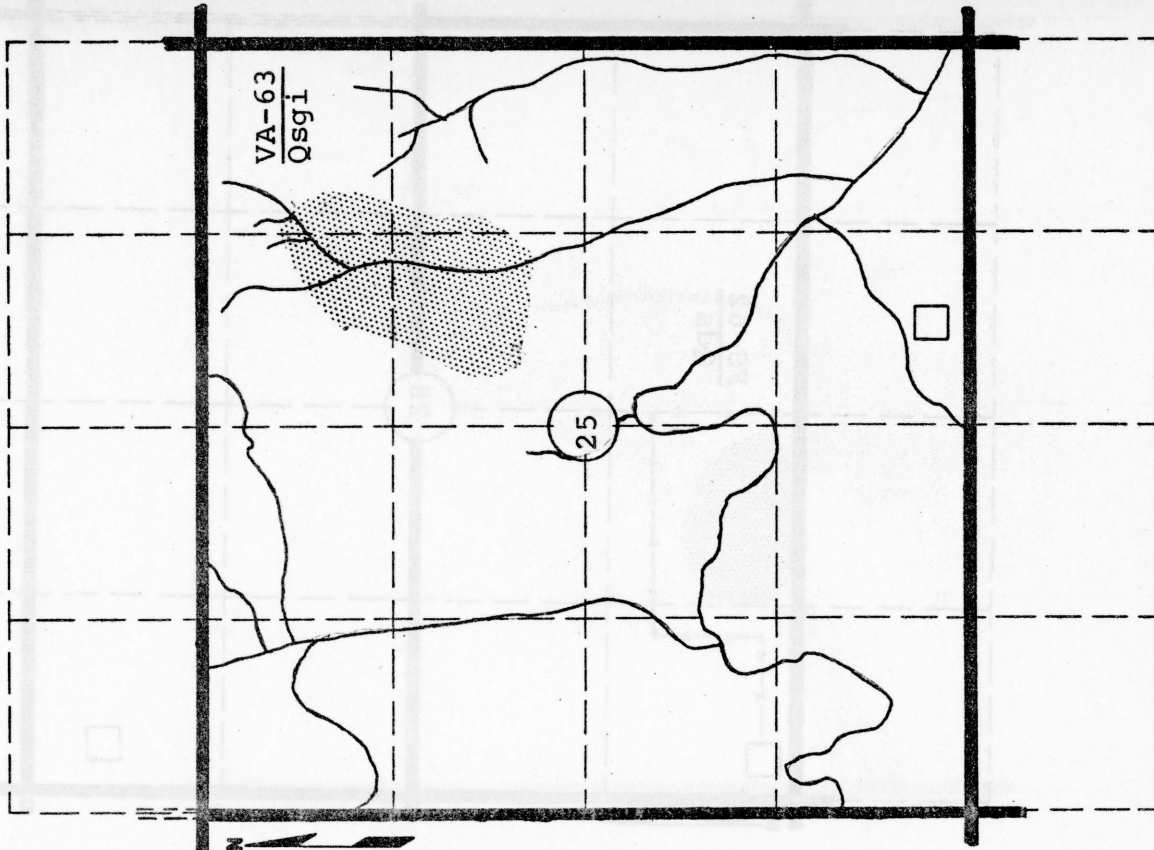
VA-63
 Qsg1
 Site No. _____ Date February, 1967
 Material Volcanic Ash County Pratt
 Location NE 1/4 Sec. 25 Twp. 27S Range 14W
 Owner J. S. Barnes est. 108 E. 3rd. Pratt, Kansas
 Nature of Deposit Dry Accessibility Good
 Status of Site Prospective site; sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of over-Burden	Depth of Material	Percent Retained								G.F.	L.L.	P.L.
				1 1/2	3/4	3/8	4	8	16	30	50	100	200	
				0	0	0	0	0	1	2	4	9	39	

CORRELATION DATA

Geological Age Quaternary
 Geological Source Sappa Formation
 Material Similar To Material reported on SHC Form 619 #76-11.
 Lab. No. 49523.
 Specific Gravity (Sat.) 2.41 (Dry)
 Los Angeles Near _____
 Absorption _____ Soundness _____
 Wt. Cu.ft. 49.1 Str. Ratio _____
 Remarks Site location on Plate III



STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

Site No. FS-64 Date February, 1967
Qds
 Material Fine Sand County Pratt
 Location NE 1/4 NE 1/4 Sec. 36 Twp. 27S Range 15W
 Owner P. L. Miller Box 987 Pratt, Kansas
 name address
 Nature of Deposit Dry Accessibility Good
 Status of Site Prospective site; sampled

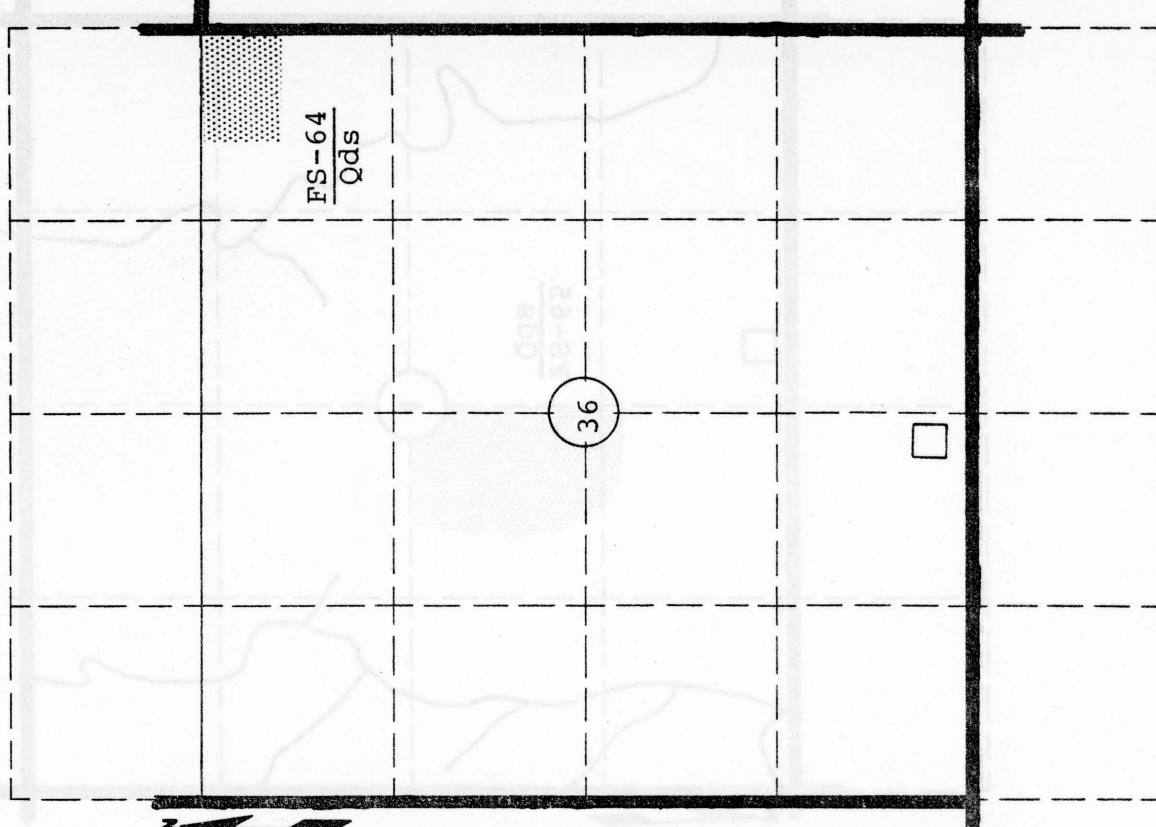
EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of over-burden	Depth of Material	Percent Retained								G.F.	L.L.	P.L.
				1 1/2	3/4	3/8	4	8	16	30	50	100	200	
Average	0	2	0	0	0	0	0	0	0	2	24	51	76	3
30	0	5	0	0	0	0	0	0	0	4	34	73	84	18
28	0	2	0	0	0	0	0	0	0	1	13	47	62	20
														5

CORRELATION DATA

Geological Age Quaternary
 Geological Source Dune Sand
 Material Similar To Material reported on SHC Form 619 #76-26.

Specific Gravity (Sat.) (Dry)
 Los Angeles Wear
 Absorption Soundness
 Wt. Cu.Ft. Str. Ratio
 Remarks This material was tested for use as selective embankment. Site location on Plate III.



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

FS-65
QdsSite No. _____ Date February, 1967Material Fine Sand County PrattLocation SE 1/4 NW 1/4 Sec. 4 Twp. 28S Range 15WOwner Lena Betchart Cullison, KansasNature of Deposit Dry name Poor addressStatus 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 1/2	3/4	3/8	4	8	16	30	50	100			
Average	0	5	0	0	0	0	0	0	0	4	21	55			
54	0	2	0	0	0	0	0	0	0	5	26	62			
60	0	7	0	0	0	0	0	0	0	2	13	43			

CORRELATION DATA

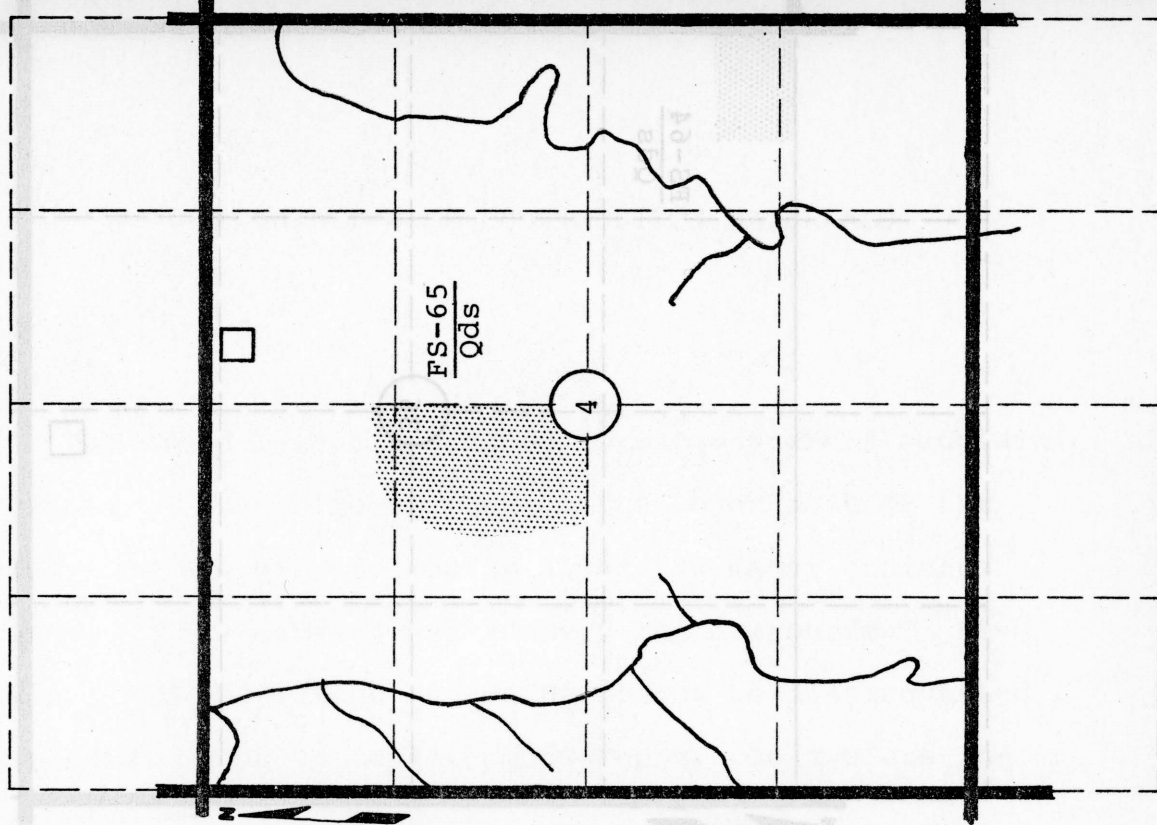
Geological Age QuaternaryGeological Source Dune SandMaterial Similar To Material reported on SHC Form 619 #76-27

Specific Gravity (Sat.) _____ (Dry) _____

Los Angeles Wear _____

Absorption _____ Soundness _____

Wt. Cu.Ft. _____ Str. Ratio _____

Remarks This material was tested for use as selective embankment. Site location on Plate III

Scale: 1" = 1/4 Mile

STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

Site No. FS-66 Date February, 1967
Qds
 Material Fine Sand
SW 1/4 NW 1/4 Sec. 6 Twp. 28S Range 15W
 Location RFD. 3 Haviland, Kansas
 Owner E. J. Starkey name Dry address POOR
 Nature of Deposit Dry Accessibility POOR
 Status of Site Prospective site; sampled

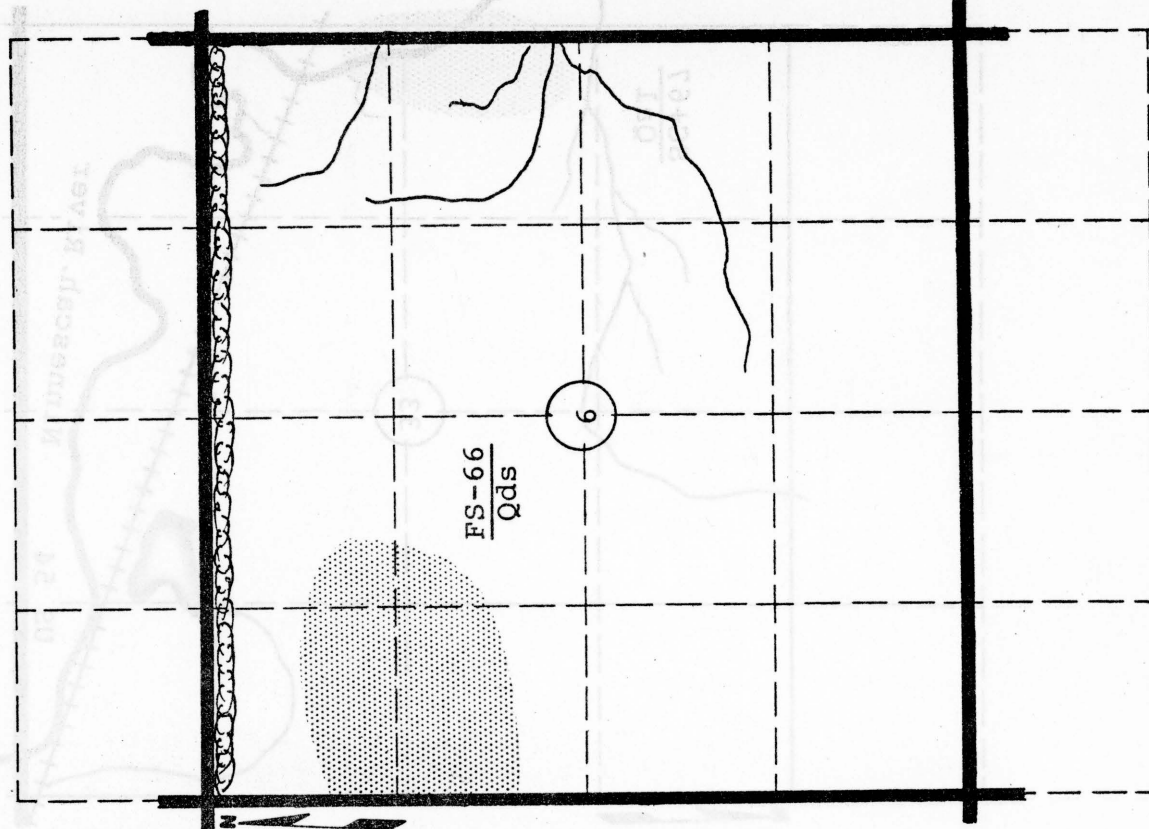
EXPLORATION DATA

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 1/2	3/4	3/8	1/4	8	16	30	50	100			
Average	0	6	6	0	0	0	0	0	0	2	17	62			
2	0	6	6	0	0	0	0	0	0	2	22	73			
1	0	6	6	0	0	0	0	0	0	2	11	50			

CORRELATION DATA

Geological Age Quaternary
 Geological Source Dune Sand
 Material Similar to Material reported on SHC Form 619 #76-28

Specific Gravity (sat.) (dry)
 Los Angeles Wear
 Absorption Soundness
 Wt. Cu.Ft. Str. Ratio
 Remarks This material was tested for use as selective embankment. Site location on Plate III



Scale: 1" = 1/4 Mile

STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

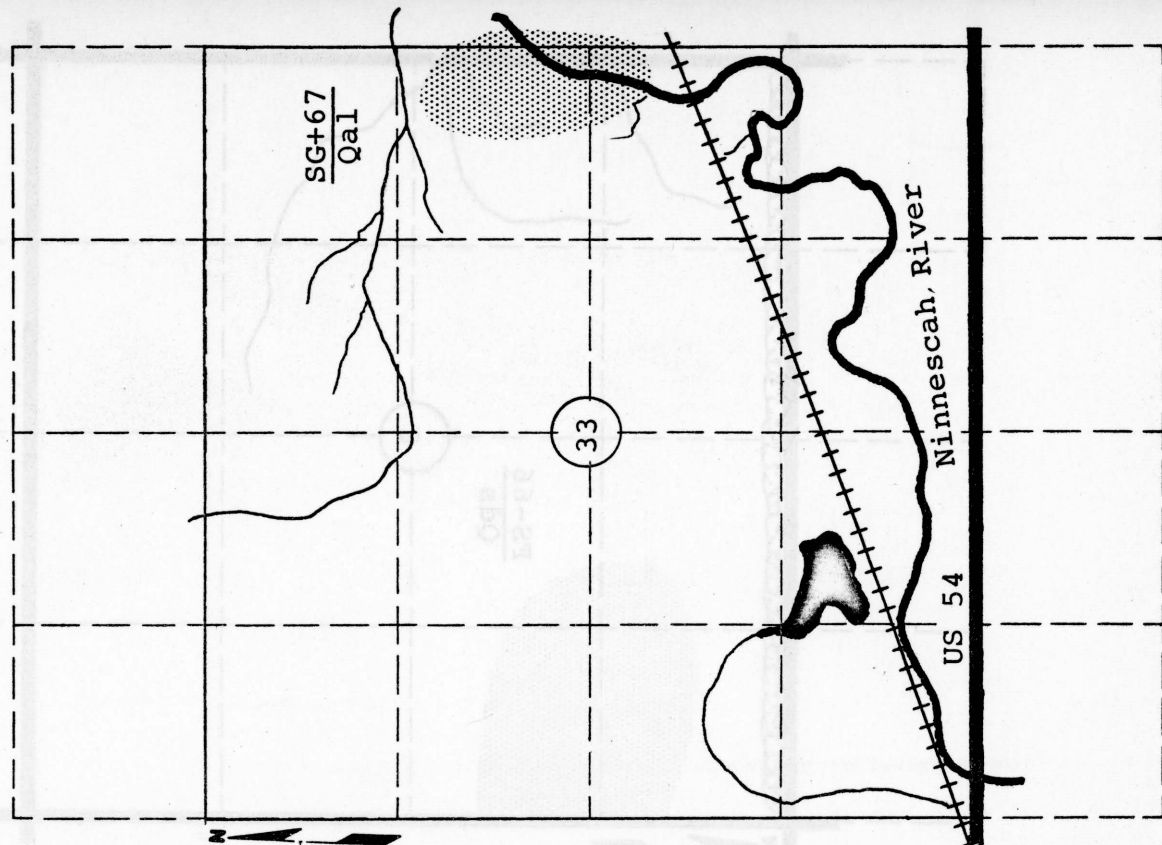
SG+67
Qal
 Site No. _____ Date February, 1967
 Material Sand & Gravel County Pratt
 Location NE 1/4 Sec. 33 Twp. 27S Range 12W
 Owner Rient Bergner 204 W. Blaine Pratt, Kansas
 Nature of Deposit Wet Accessibility Poor
 Status of Site Prospective site; sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of over-Burden	Depth of Material	Percent Retained								Wash 200	G.F.	L.I.	P.I.
				1 1/2	3/4	3/8	4	8	16	30	50	100			
Average				3	7	13	20	31	44	64	92	98	2	3.64	
4		2	24	7	11	21	31	42	60	76	94	99	1	4.41	
1		1	11	2	7	9	13	20	33	48	83	97	1	3.12	

CORRELATION DATA

Geological Age Quaternary
 Geological Source Alluvium
 Material Similar To Material reported on SHC Form 619 #76-15
 Specific Gravity (sat.) 2.59 (dry) _____
 Los Angeles Wear 27.0
 Absorption _____ Soundness 0.98
 Wt. Cu.Ft. 120.7 Str. Ratio 1 day 1.49, 3 day 1.36
 Remarks Gradation data for holes 1 & 4 represent the coarsest and finest material that has been sampled at this site. Site location on Plate IV



MATERIAL SURVEY REPORT

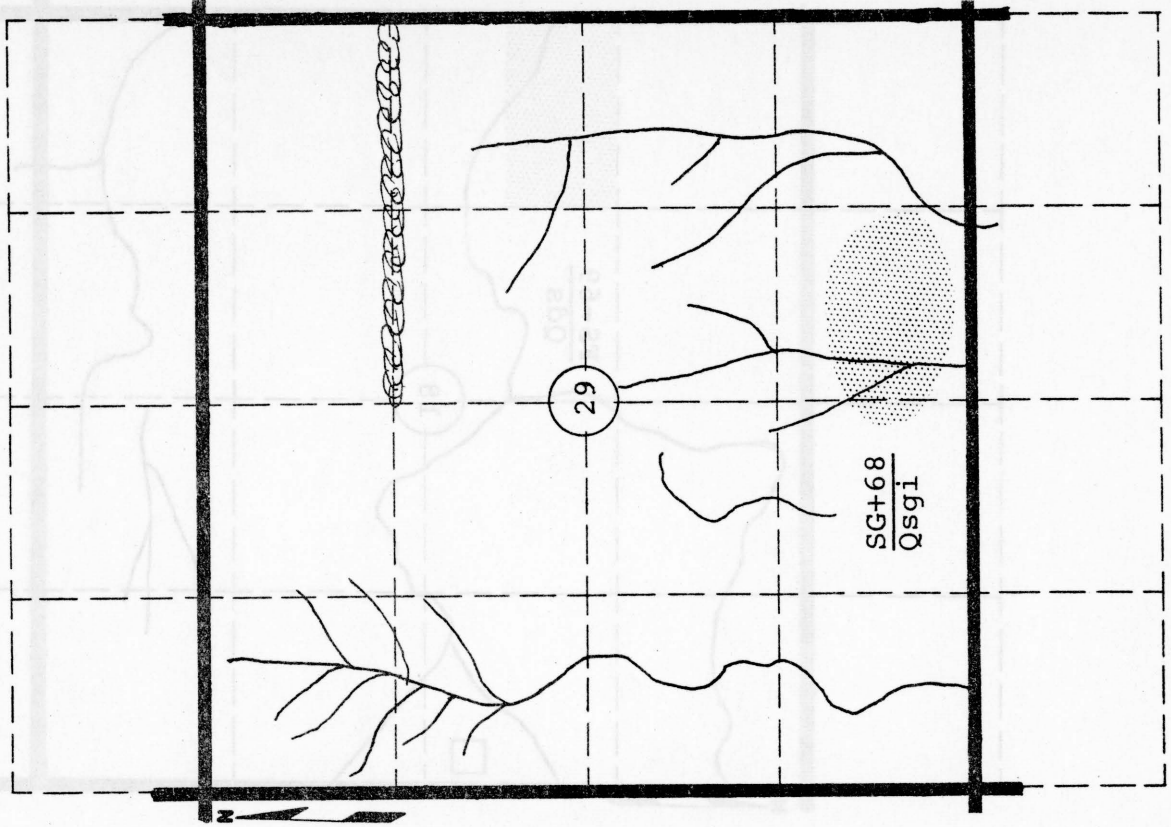
Site No. SG+68 Date February, 1967
Qsg1
 Material Sand & Gravel County Pratt
 Location SW 1/4 SE 1/4 Sec. 29 Twp. 28S Range 11W
 Owner Duane E. Bush et ux. Isabel, Kansas
 name address
 Nature of Deposit Dry Accessibility Poor
 Status of Site Prospective site; sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of over-burden	Depth of Material	Percent Retained								G.F.	L.L.	P.I.		
				1 1/2	3/4	3/8	4	8	16	30	50				100	200
Average	1	11	0	0	3	9	20	36	61	90	98	100				

CORRELATION DATA

Geological Age Quaternary
 Geological Source Grand Island Formation
 Material Similar To Material reported on SHC Form 619 #76-23
 Specific Gravity (Sat.) (dry)
 Los Angeles Wear
 Absorption Soundness
 Wt. Cu.Ft. Str. Ratio
 Remarks Site location on Plate VI



Scale: 1" = 1/4 Mile

MATERIAL SURVEY REPORT

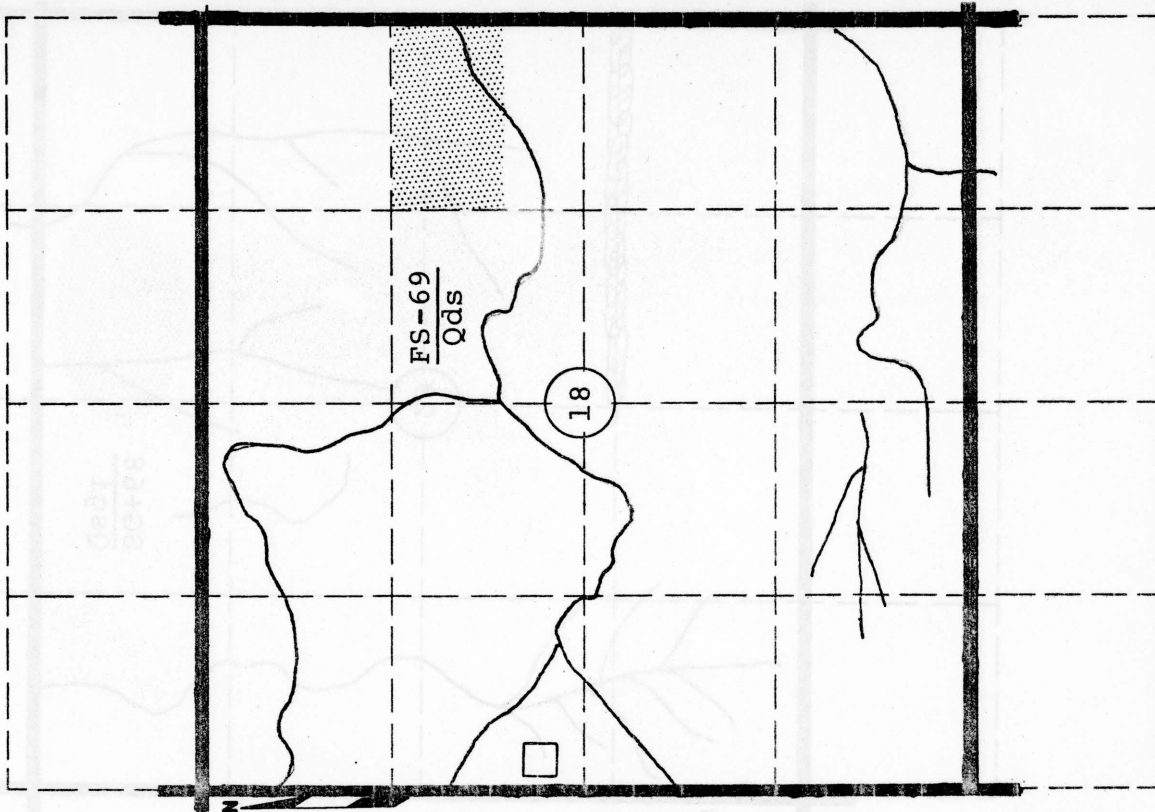
FS-69
Qds
 Site No. _____ Date February, 1967
 Material Fine Sand County Pratt
 Location SE 1/4 NE 1/4 Sec. 18 Twp. 29S Range 11W
Jennie E. Blackwelder et al. Isabel, Kansas
 Owner _____ name _____ address _____
 Nature of Deposit Dry Accessibility Fair
 Status of Site Prospective site; sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of over-Burden	Depth of Material	Percent Retained								Wash	L.L.	P.L.
				1/2	3/4	3/8	4	8	16	30	50	100		
Average	0	14								1	21	56	64	37
3		0	12							2	37	65	73	27
4		0	12							0	12	47	56	44
														5
														4
														9

CORRELATION DATA

Geological Age Quaternary
 Geological Source Dune Sand
 Material Similar To Material reported on SHC Form 619 #76-25
 Specific Gravity (Sat.) _____ (Dry)
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu.Ft. _____ Str. Ratio _____
 Remarks This material was tested for filler material.
Site location on Plate VI

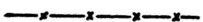
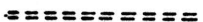
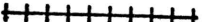
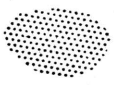


Scale: 1" = 1/4 Mile

APPENDIX IV

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

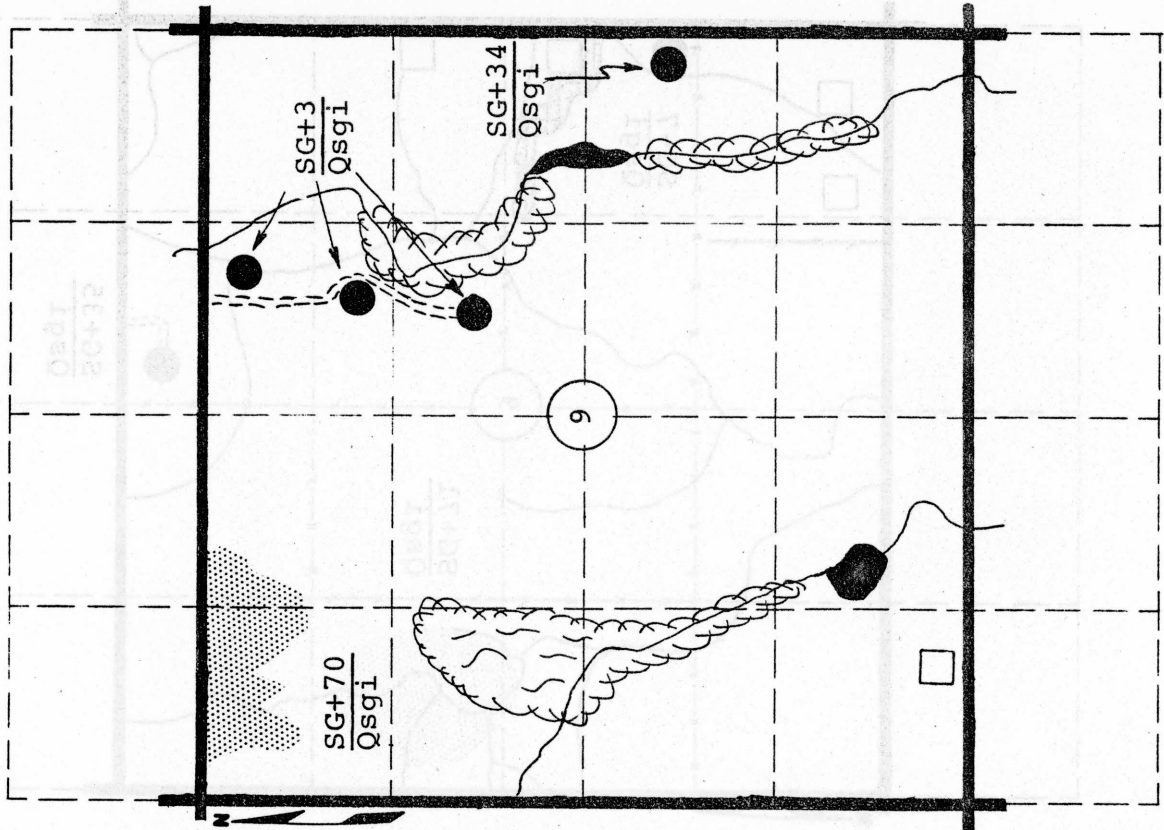
SG+70
 Qsgi
 Site No. _____ Date February, 1967
 Material Sand & Gravel County Pratt
 Location NW $\frac{1}{4}$ Sec. 9 Twp. 27S Range 12W
 Owner Jacob Dietz & Peoples Bank Pratt, Kansas
 name
 Nature of Deposit Dry Accessibility Good
 Status of Site Prospective site; not sampled

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	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 Site location on Plate II



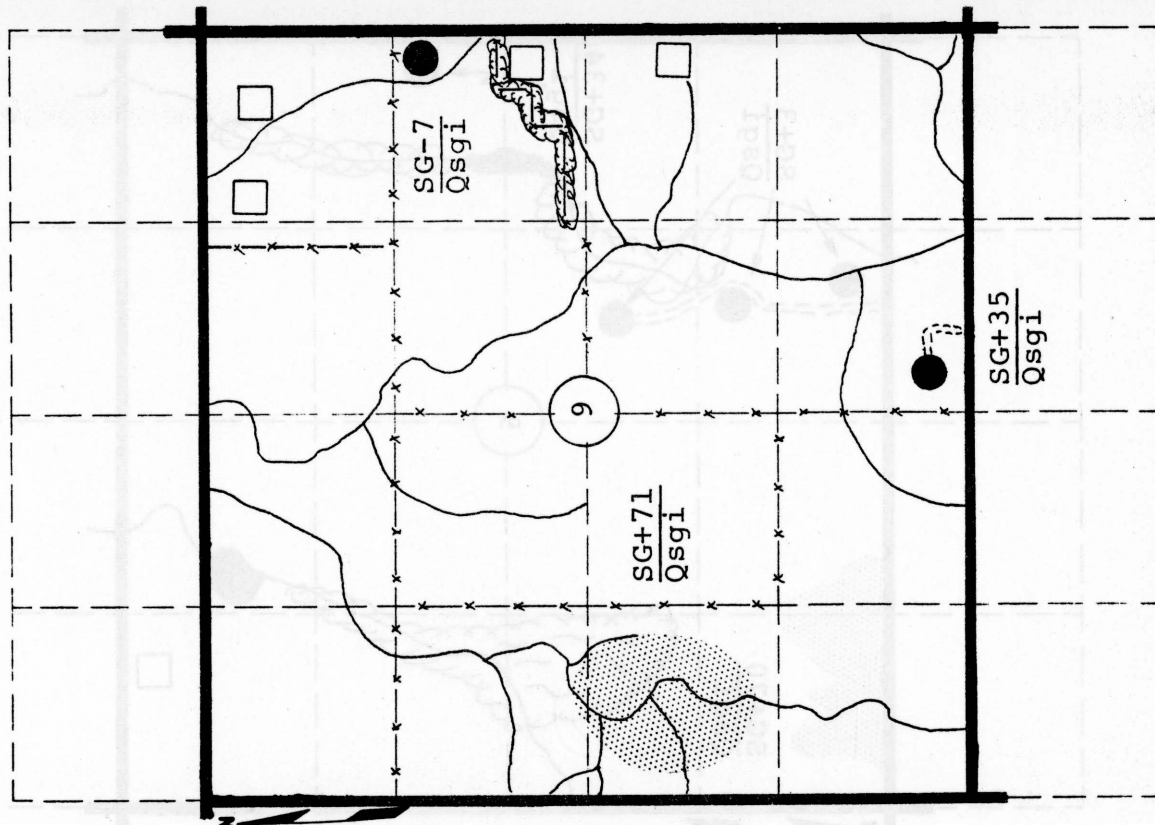
Scale: 1" = 1/4 Mile

EXPLORATION DATA

[illegible]

CORRELATION DATA

Quaternary
Geological Age
Grand Island Formation
Geological Source
Material Similar To
Specific Gravity (Sat.) (Dry)
Los Angeles Wear
Absorption Soundness
Wt. Cu.ft. Str. Ratio
Site location on Plate III
Remarks



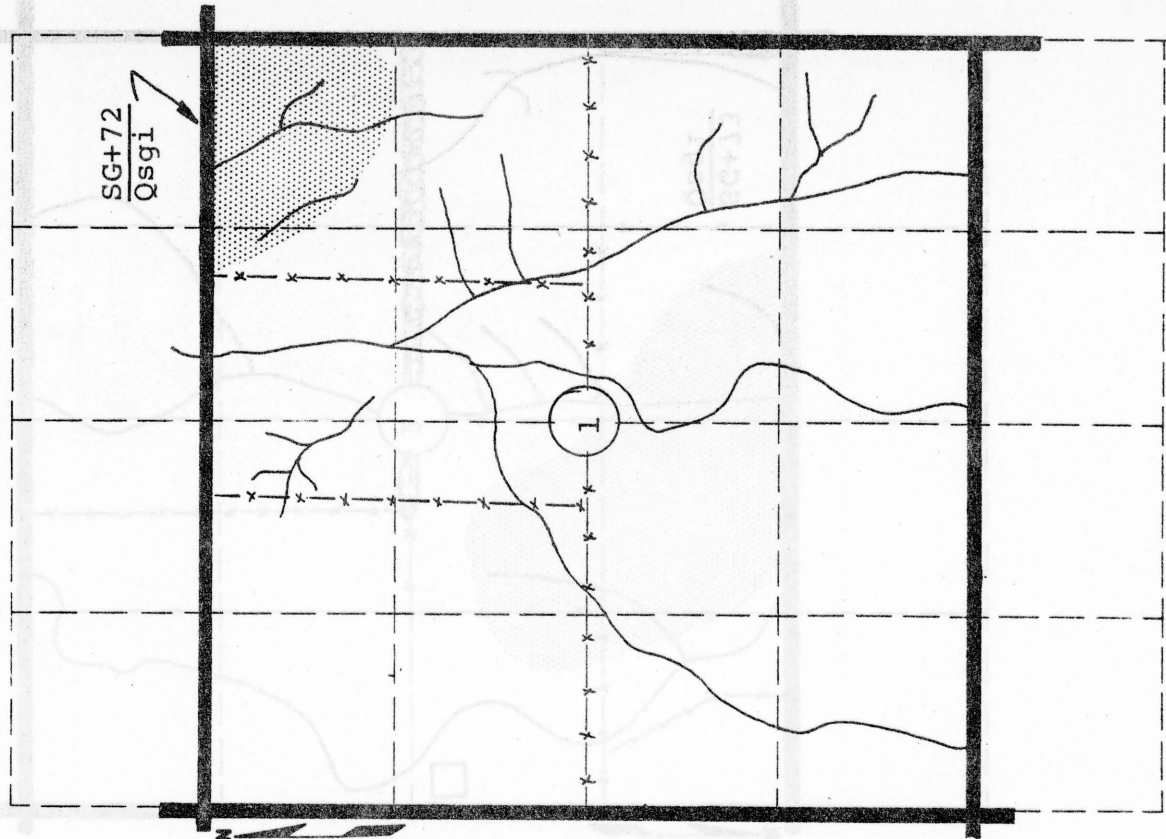
Scale: 1" = $\frac{1}{4}$ Mile

EXPLORATION DATA

[illegible]

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 Site location on Plate IV



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

MATERIAL SURVEY REPORT

SG+73
Qsg1

Site No. _____ Date February, 1967

Material Sand & Gravel County Pratt

Location N $\frac{1}{2}$ Sec. 2 Twp. 28S Range 11W

Owner Paul S. Fitzsimmons Cunningham, Kansas
name address

Nature of Deposit Dry Accessibility Good

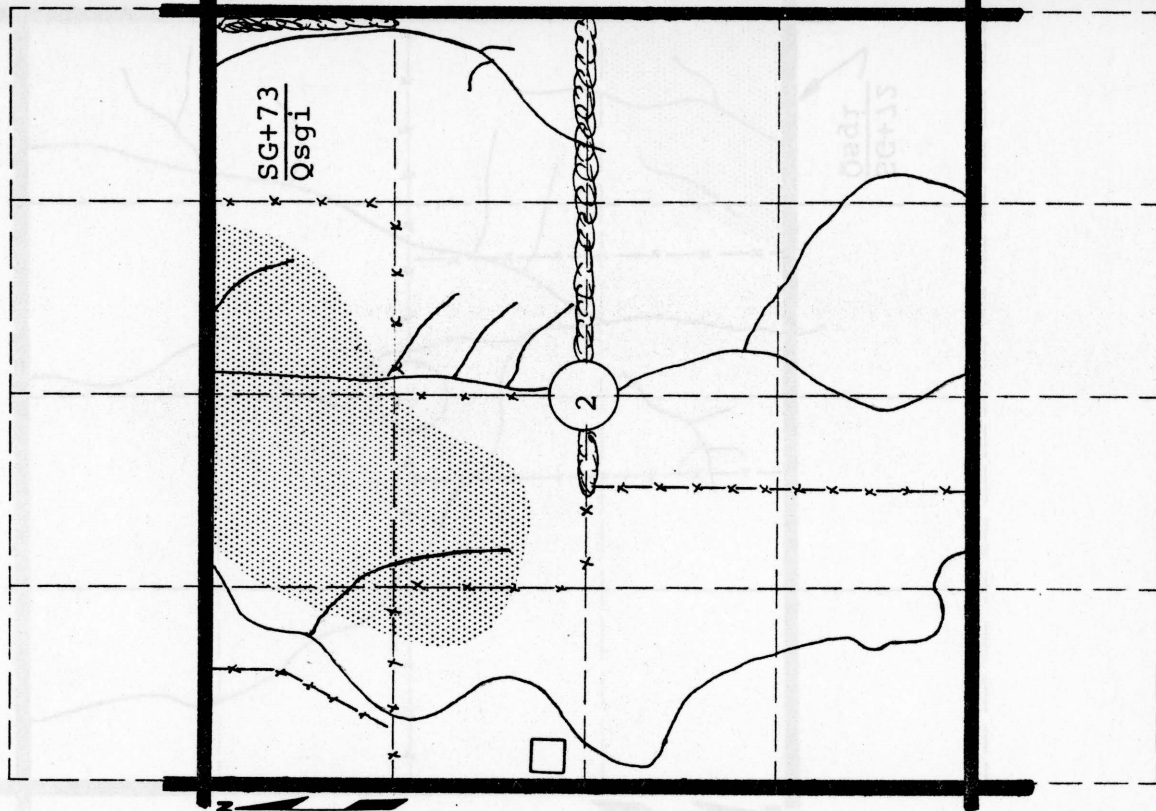
Status of Site Prospective site; not sampled

EXPLORATION DATA

[illegible]

CORRELATION DATA

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



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

STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

Site No. SG+74 Date February, 1967
Qsgi
 Material Sand & Gravel County Pratt
 Location NE 1/4 NE 1/4 Sec. 22 Twp. 27S Range 12W
 Owner Briant Hardesty etux. 1001 Champa, Pratt, Kansas
 Name Dry address
 Nature of Deposit Dry Accessibility Fair
 Status of Site Prospective site; not sampled

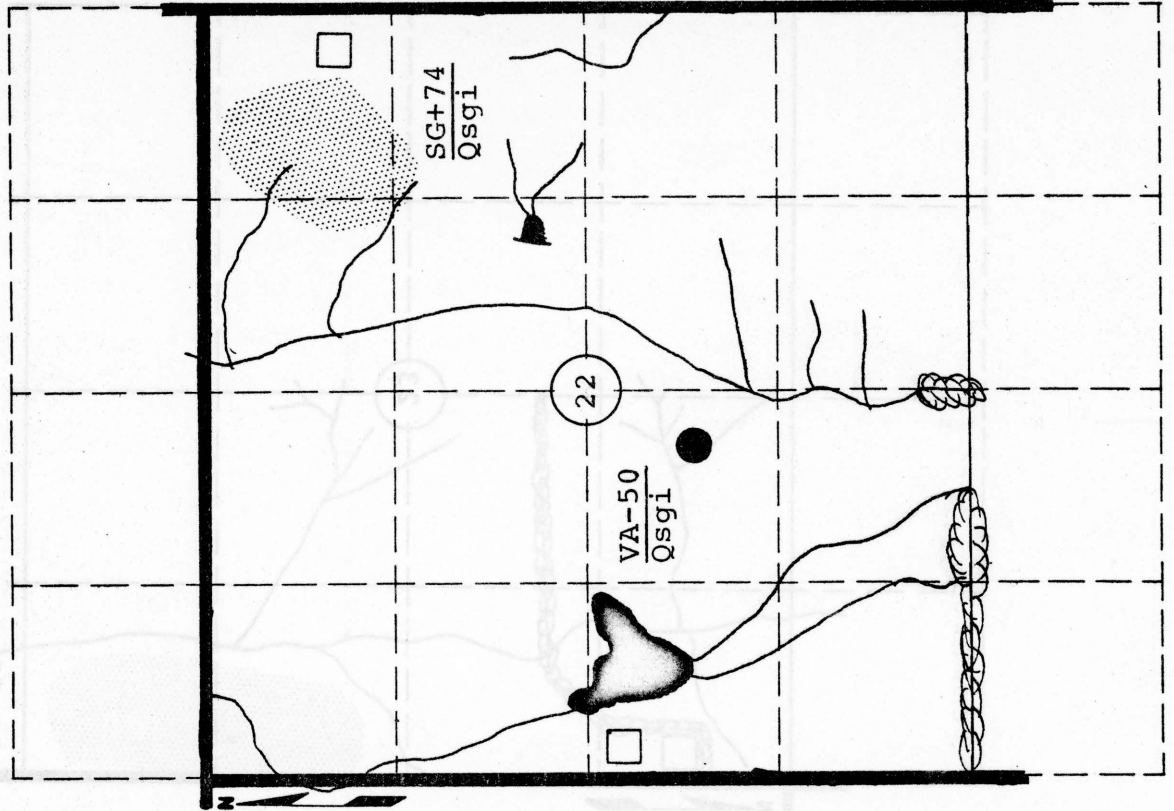
EXPLORATION DATA

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				
													</		

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 Site location on Plate IV

Scale: 1" = 1/4 Mile



MATERIAL SURVEY REPORT

SG+75
Qsg1

February, 1966

Site No. _____ Date _____

Material Sand & Gravel County Pratt

SW $\frac{1}{4}$ Sec. 23 Twp. 27S Range 12W

J. S. Barnes est. 108 E. 3rd, Pratt, Kansas

Owner _____ name _____ address _____

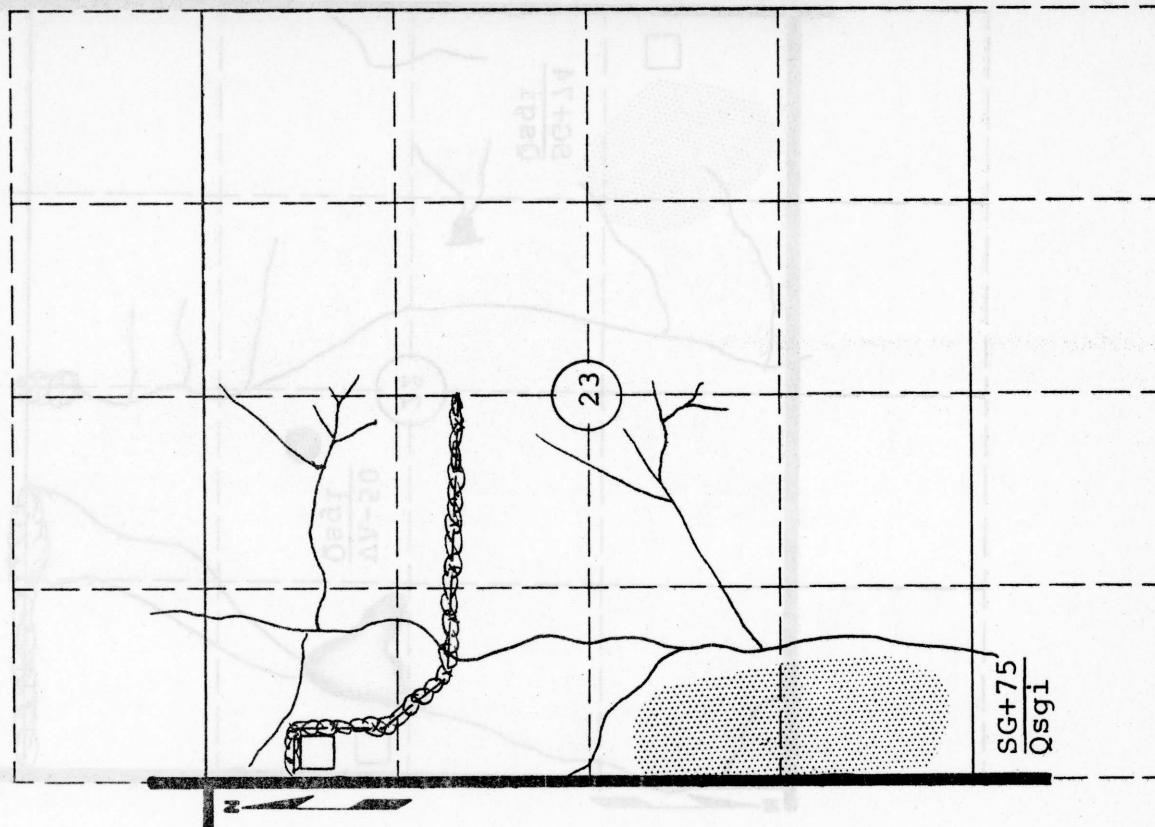
Mature of Deposit Dry Accessibility Good

Status of Site Prospective site; not sampled

[illegible]

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 _____
Site location on Plate IV _____
Remarks _____



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

MATERIAL SURVEY REPORT

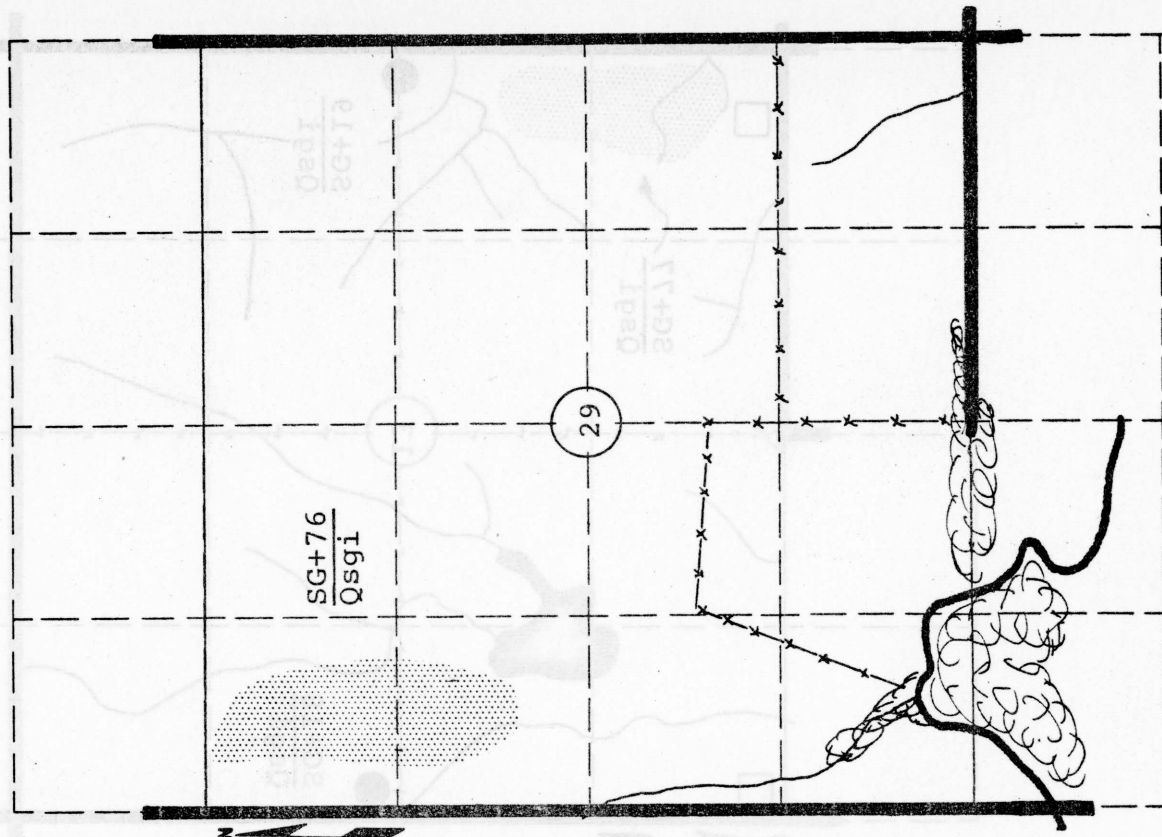
SG+76
Qsgi
Site No. February, 1967
Material Sand & Gravel Pratt
NW $\frac{1}{4}$ 29 27S 11W
Location Ernest Swisher etux. Greensburg, Kansas
Owner name Dry address
Nature of Deposit Accessible Fair
Status of Site Prospective site; not sampled

EXPLORATION DATA

[illegible]

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 Site location on Plate IV



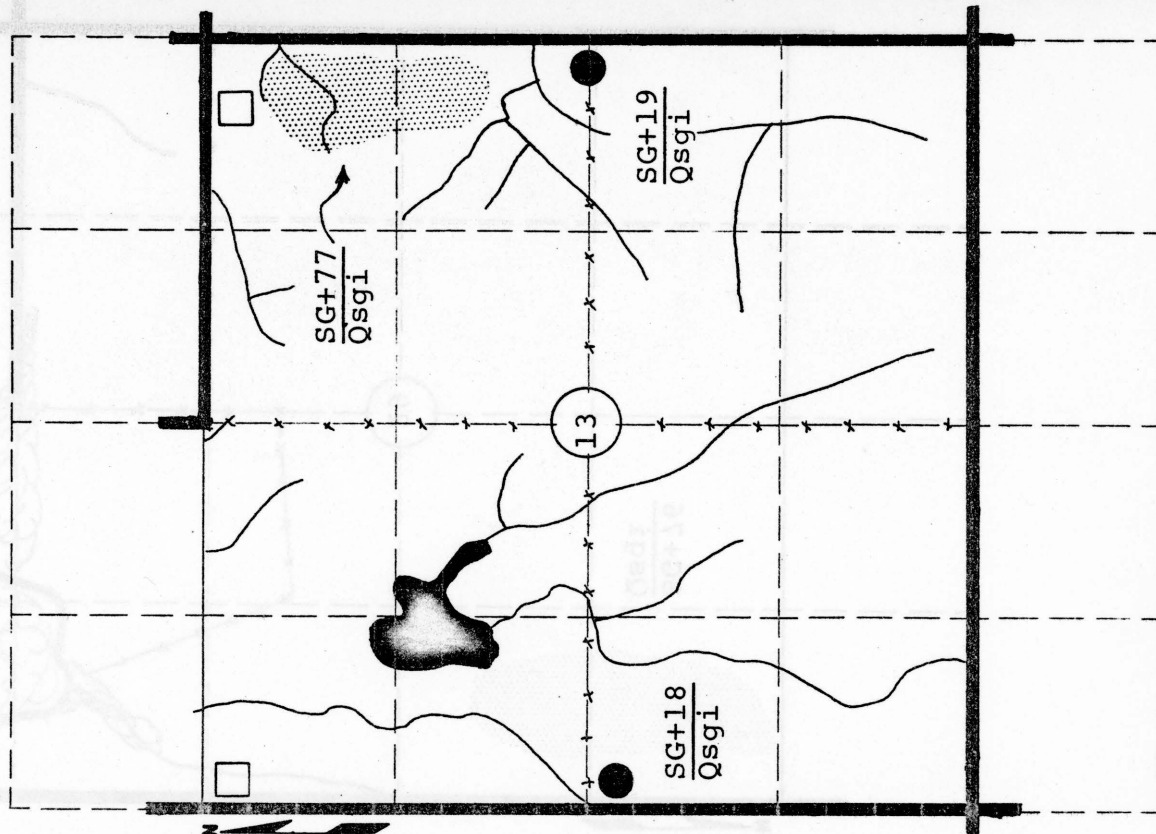
Scale: 1" = $\frac{1}{4}$ Mile

MATERIAL SURVEY REPORT

EXPLORATION DATA

CORRELATION DATA

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

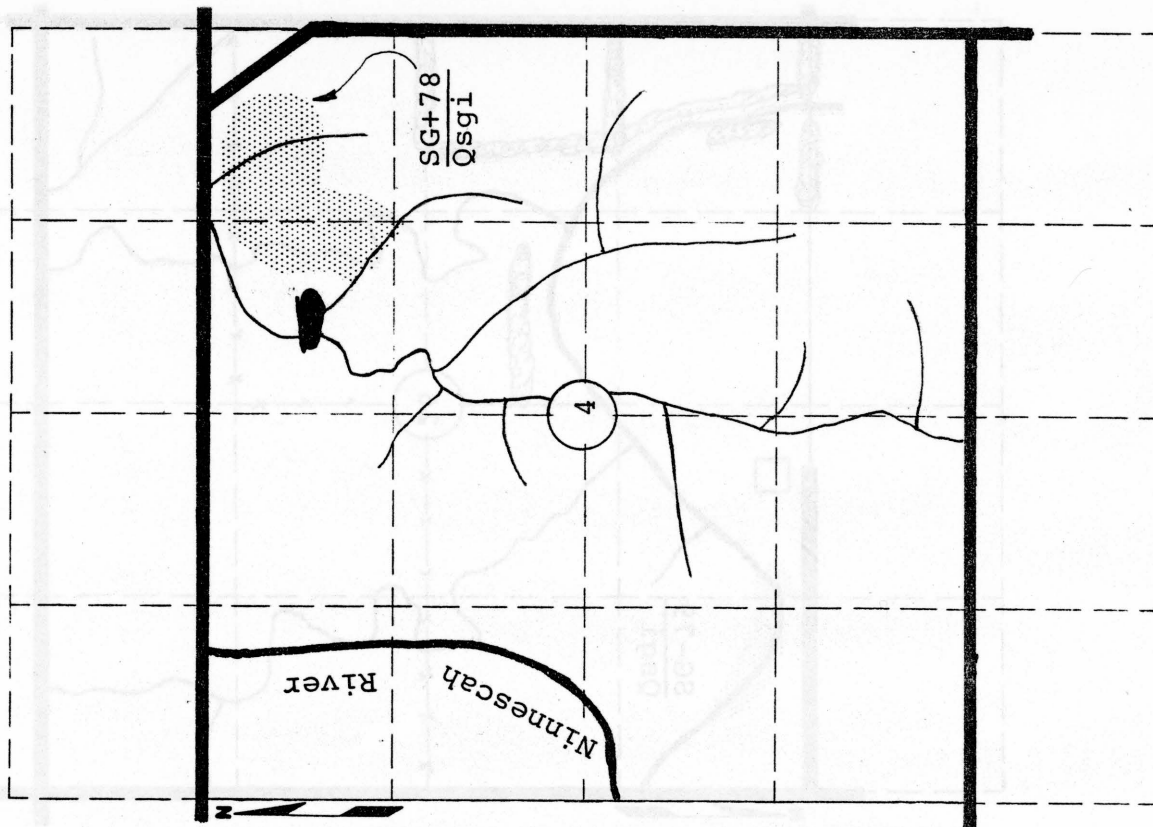


MATERIAL SURVEY REPORT

EXPLORATION DATA

CORRELATION DATA

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



MATERIAL SURVEY REPORT

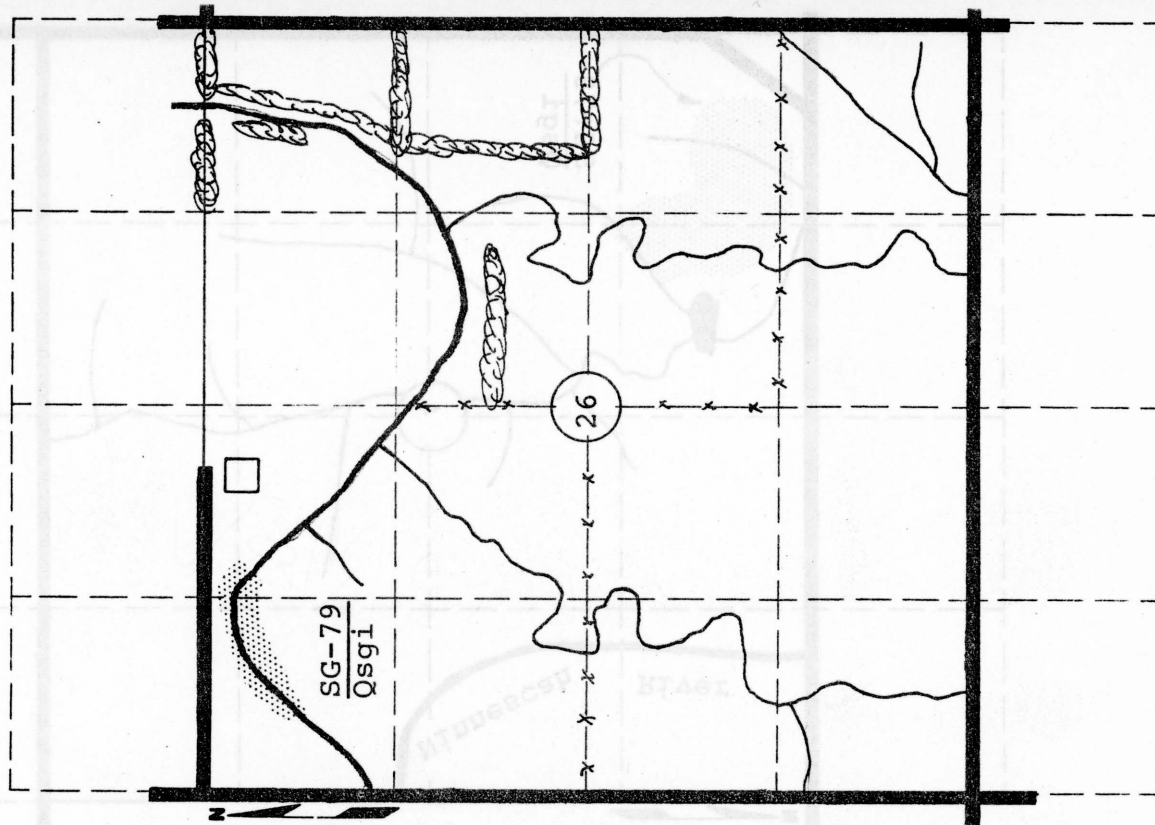
SG-79
Qsgi
Site No. _____ Date February, 1967
Material Sand & Gravel County Pratt
NW $\frac{1}{4}$ Sec. 26 Twp. 28S Range 14W
Location Blanche Hatfield etal. RFD. 2 Pratt, Kansas
Owner _____ name _____ address _____
Mature of Deposit Dry Accessibility Good
Prospective site; not sampled
Status of Site _____

EXPLORATION DATA

[illegible]

CORRELATION DATA

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



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

February, 1967

Site No. _____ Date _____
 Material Sand & Gravel County Pratt
 Location SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 25 Twp. 29S Range 14W
 Owner Lottie A. Smith 616 N. Prospect Liberal, Kans
 name
 Dry
 Mature of Deposit _____ Accessibility Good
 Status of Site Prospective site; not sampled

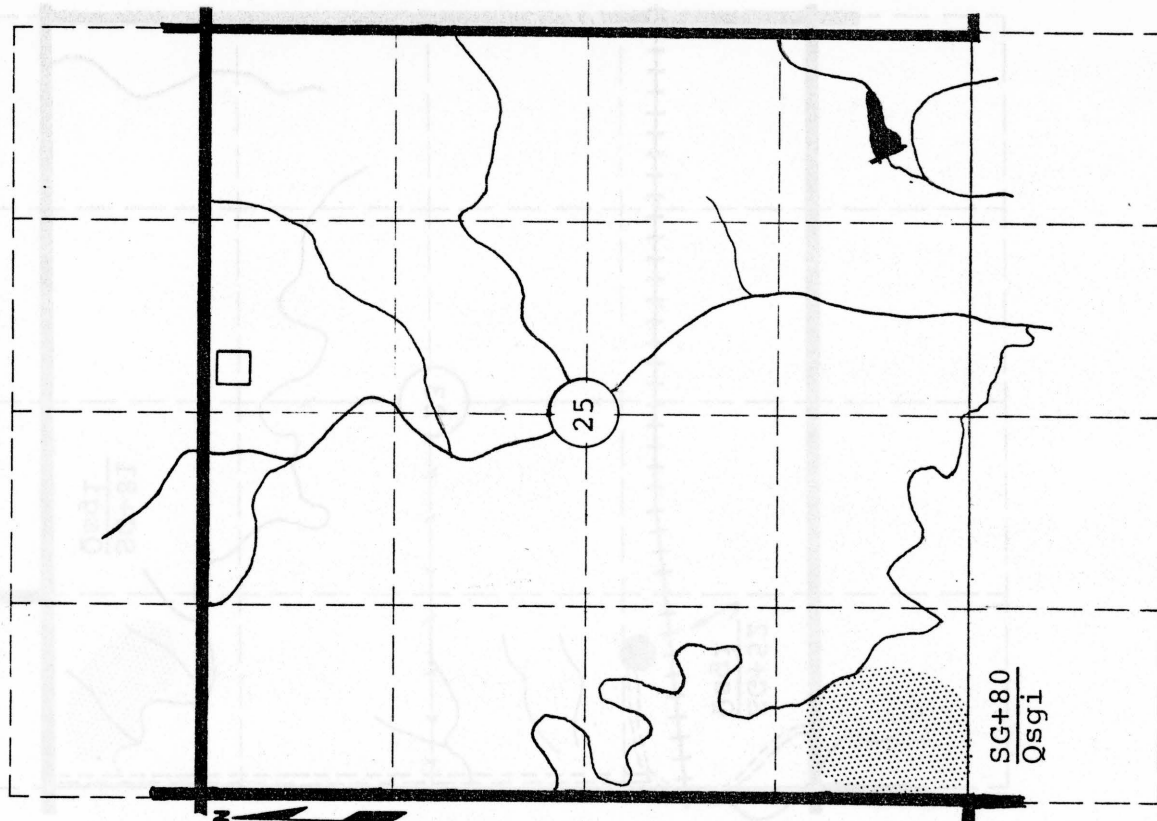
EXPLORATION DATA

[illegible]

CORRELATION DATA

Quaternary _____
Geological Age _____
Grand Island Formation _____
Geological Source _____
Material Similar To _____

Specific Gravity (Sat.) _____ (Dry) _____
Los Angeles Wear _____
Absorption _____ Soundness _____
Wt. Cu.Ft. _____ Str. Ratio _____
Site location on Plate V
Remarks _____



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

MATERIAL SURVEY REPORT

February, 1967

Site No. _____ Q591 _____
Date _____ FEBRUARY, 1967 _____

Sand & Gravel Pratt

SW $\frac{1}{4}$ 23 29S 15W

Robert S. Howell
Coats, Kansas

Owner	name	address
	Driv	Good

Nature of Deposit _____ Accessibility _____

Prospective site; not sampled

EXPLORATION DATA

[illegible]

CORRELATION DATA

Quaternary

Grand Island Formation

Material similar to _____

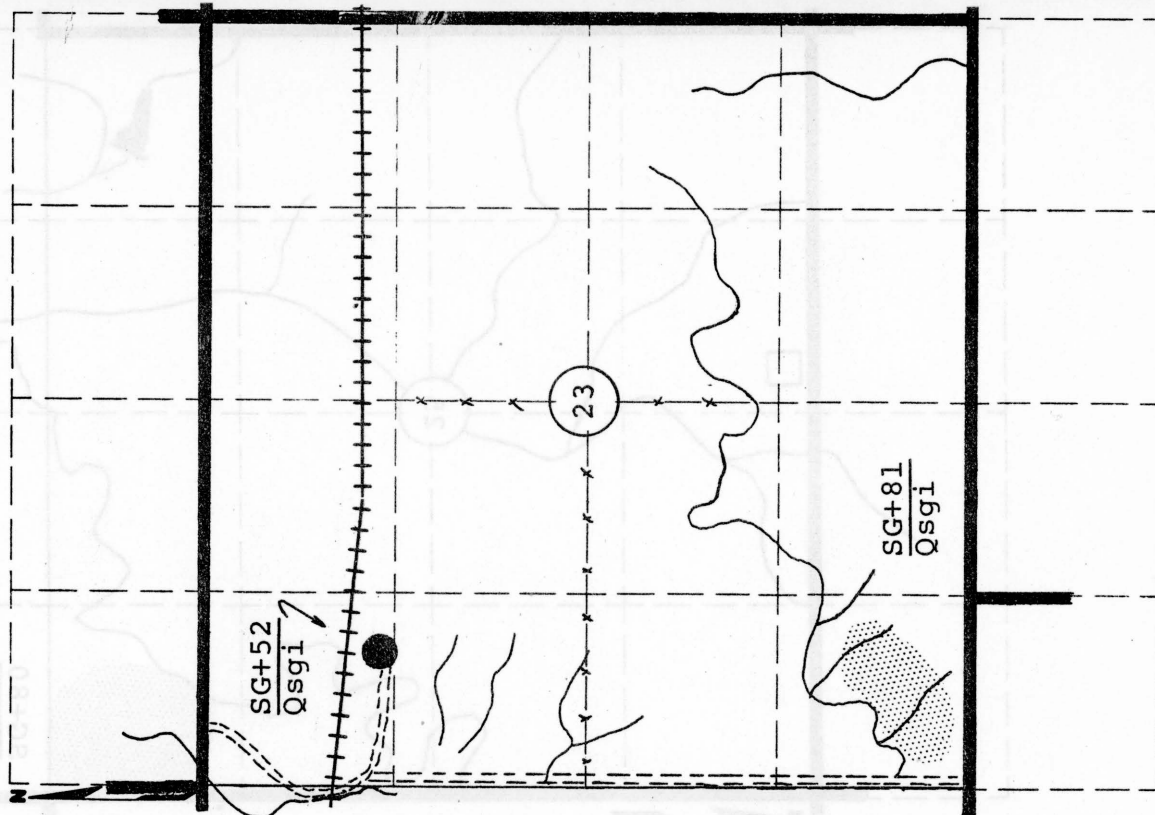
Specific Gravity (Sat.) _____ (Dry) _____

Los Angeles Wear _____

absorption _____ Soundness _____

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
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Site location on Plate V



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

MATERIAL SURVEY REPORT

$$\frac{SG+83}{Qsg1}$$

February, 1967

Copy _____
Date _____

Site No. _____

Sand & Gravel

Pratt

Material	County
SW $\frac{1}{4}$	4
	29S
	15W

15W

Juanita O. Bolser

Haviland, Kansas

Owner	name	address

	Dry	Fair	Wet
Accessibility			

Fair

Prospective site, not sampled

Prospective site, not sampled

Status of Site

Prospective site, not sampled

EXPLORATION DATA

[illegible]

CORRELATION DATA

Quaternary

Geological Age

Grand Island Formation

Geological Source

Material Similar To -

Specific Gravity (Sat.) _____ (Dry) _____

(Dry) -

Los Angeles Wear -

Absorption

Soundness

Wt. Cu. Ft.

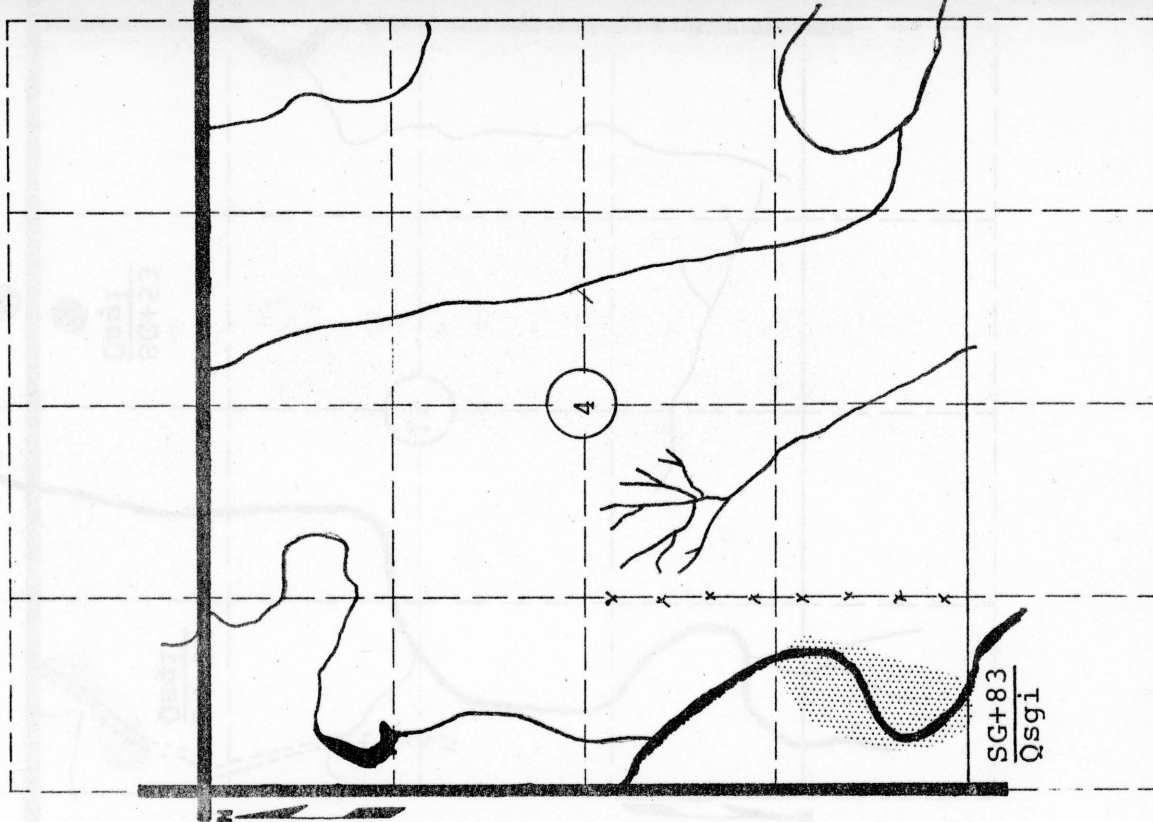
Str. Ratio -

Str. Ratio -

Site location on Plate V

Site location on Plate V

Remarks



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

MATERIAL SURVEY REPORT

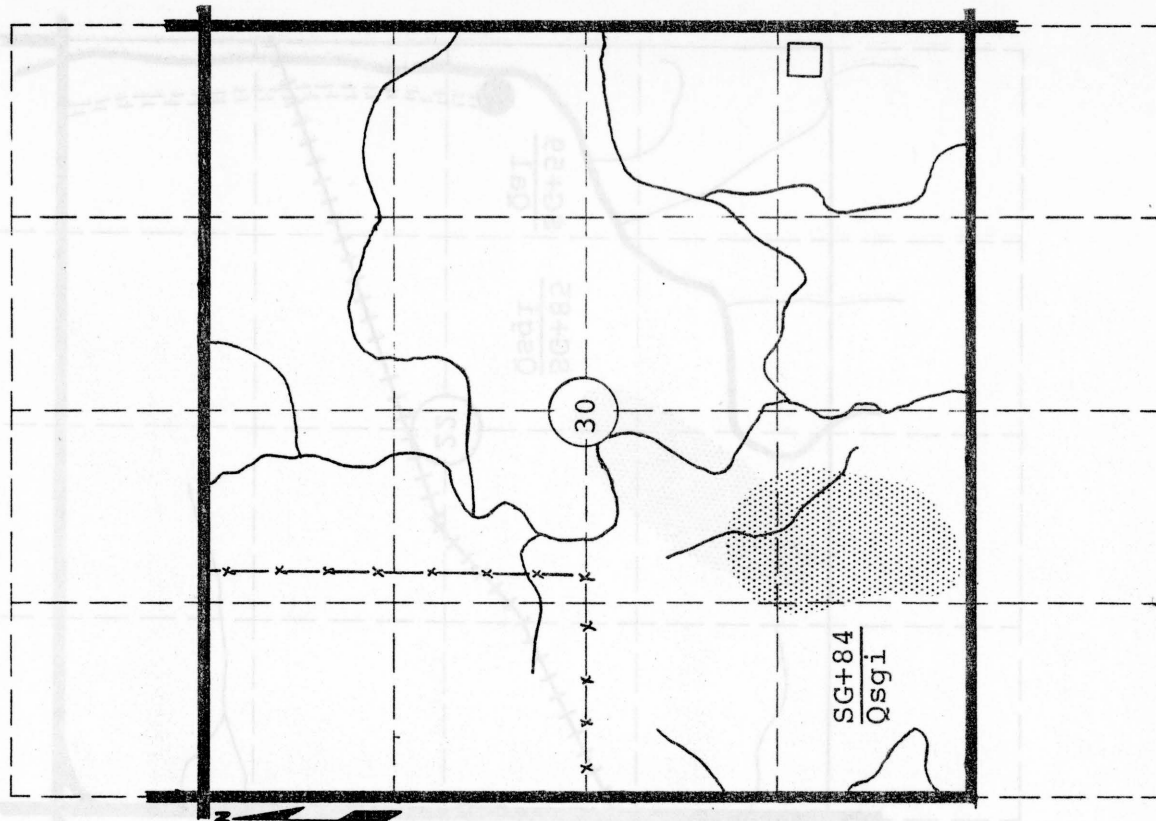
SG+84
Qsg1
Site No. February, 1967
Date Pratt
Material Sand & Gravel
County Pratt
Location SW $\frac{1}{4}$
Sec. 30 Twp. 29S Range 13W
Owner Ora Lambert
Address 910 N. Champa
Pratt, Kansas
name Dry
Accessability Good
Nature of Deposit Prospective site; not sampled
Status of Site

EXPLORATION DATA

[illegible]

CORRELATION DATA

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



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

MATERIAL SURVEY REPORT

SG+85
Qsg1

Site No. _____ Date February, 1967

Material Sand & Gravel County Pratt

Location NW¹₄ Sec. 22 Twp. 29S Range 13W

Leslie H. Pitzer etux. RFD. 2 Pratt, Kansas

Owner name _____ address _____

Nature of Deposit Dry Accessibility Poor

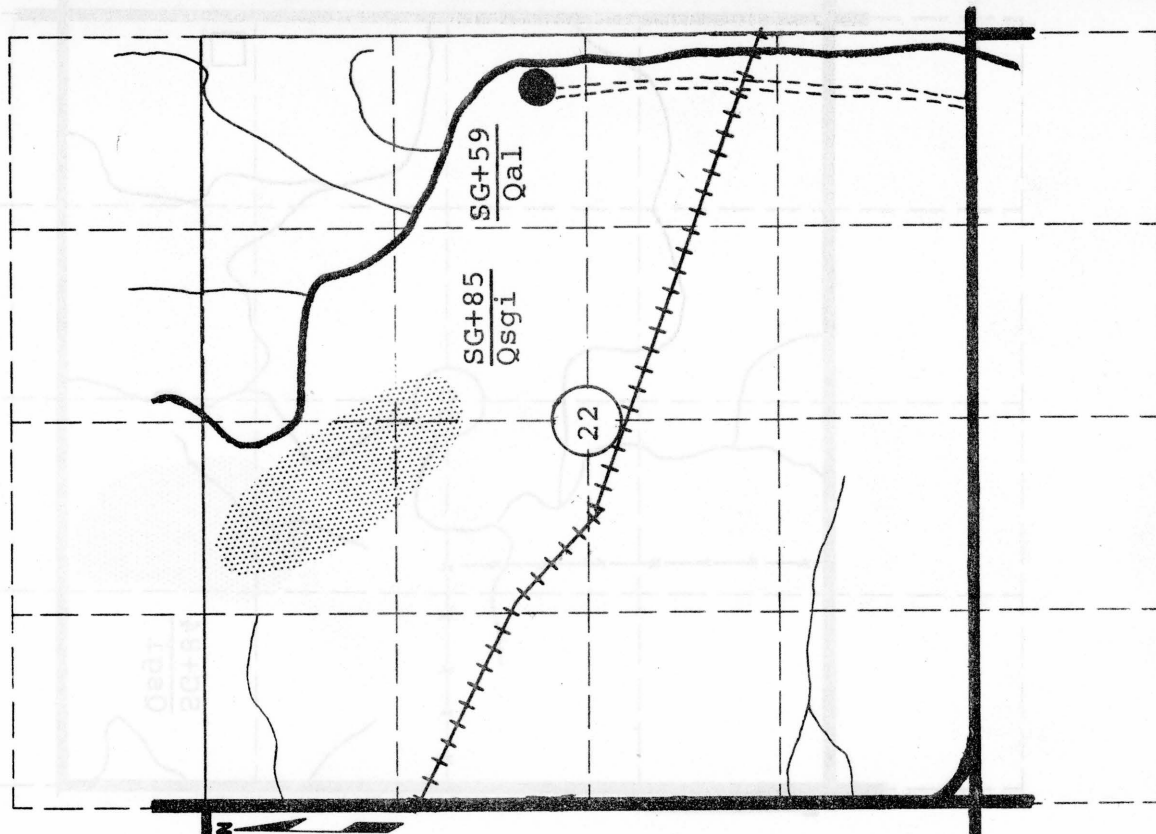
Status of Site Prospective site; not sampled

EXPLORATION DATA

[illegible]

CORRELATION DATA

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



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

MATERIAL SURVEY REPORT

$$\frac{SG+86}{QsgI}$$

February, 1967

Site No. _____ Date _____

Sand & Gravel Pratt

Location SW $\frac{1}{4}$ Sec. 27 Twp. 29S Range 13W

owner D. H. Thompson, Jr., etal. Box 470 Pratt, Kansas
 name address

Nature of Deposit Dry Accessibility Good

Prospective site; not sampled

EXPLORATION DATA

[illegible]

CORRELATION DATA

Quaternary

Geological Age -

Grand Island Formation

Geological Source -

Material Similar To-

Specific Gravity (Sat.) -

(Dr v)

Los Angeles Wear -

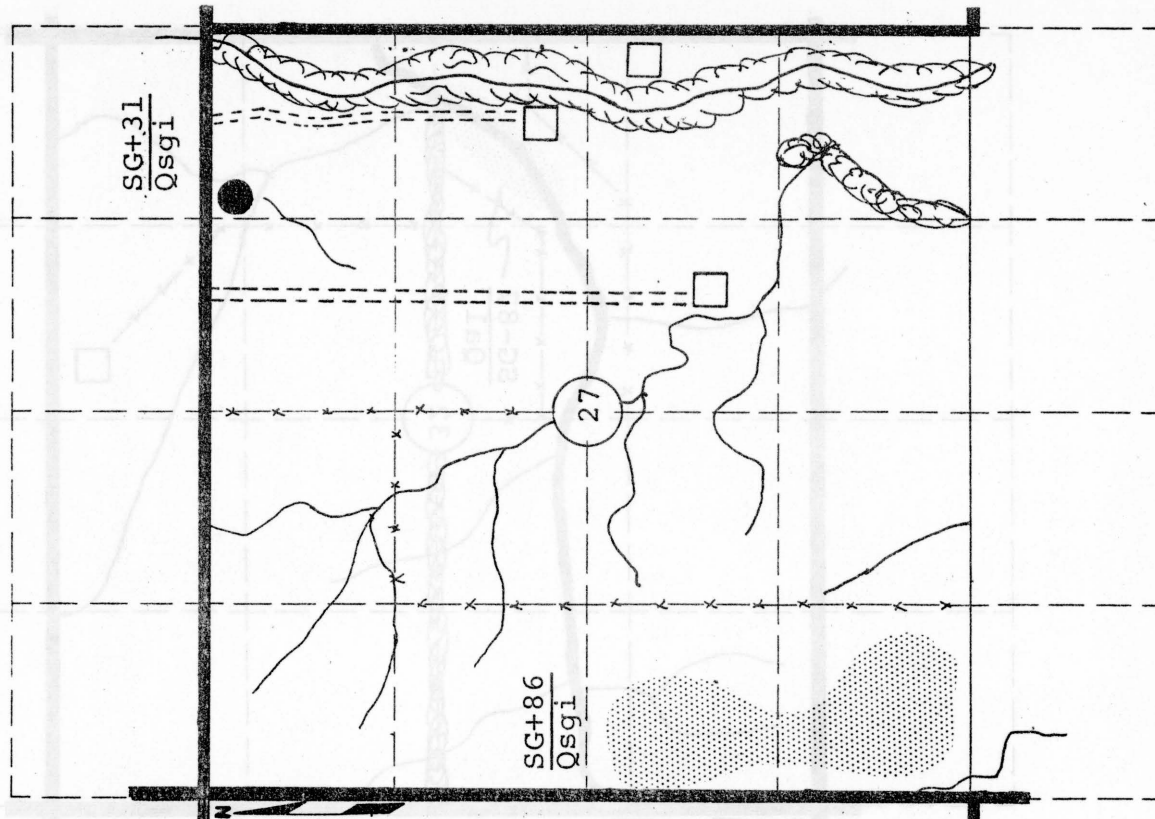
Absorption _____ Soundness _____

[illegible]

Str. Ratio.

Site location on Plate VI

Remarks



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

MATERIAL SURVEY REPORT

SG-87
Qal

Site No. _____ Date February, 1967

Material Sand & Gravel County Pratt

Location SE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 32 Twp. 28S Range 11W

Owner Duane D. Bush name Isabel, Kansas 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 1/2	3/4	3/8	4	8	16	30	50					100

CORRELATION DATA

Geological Age Quaternary

Geological Source Alluvium

Material Similar To _____

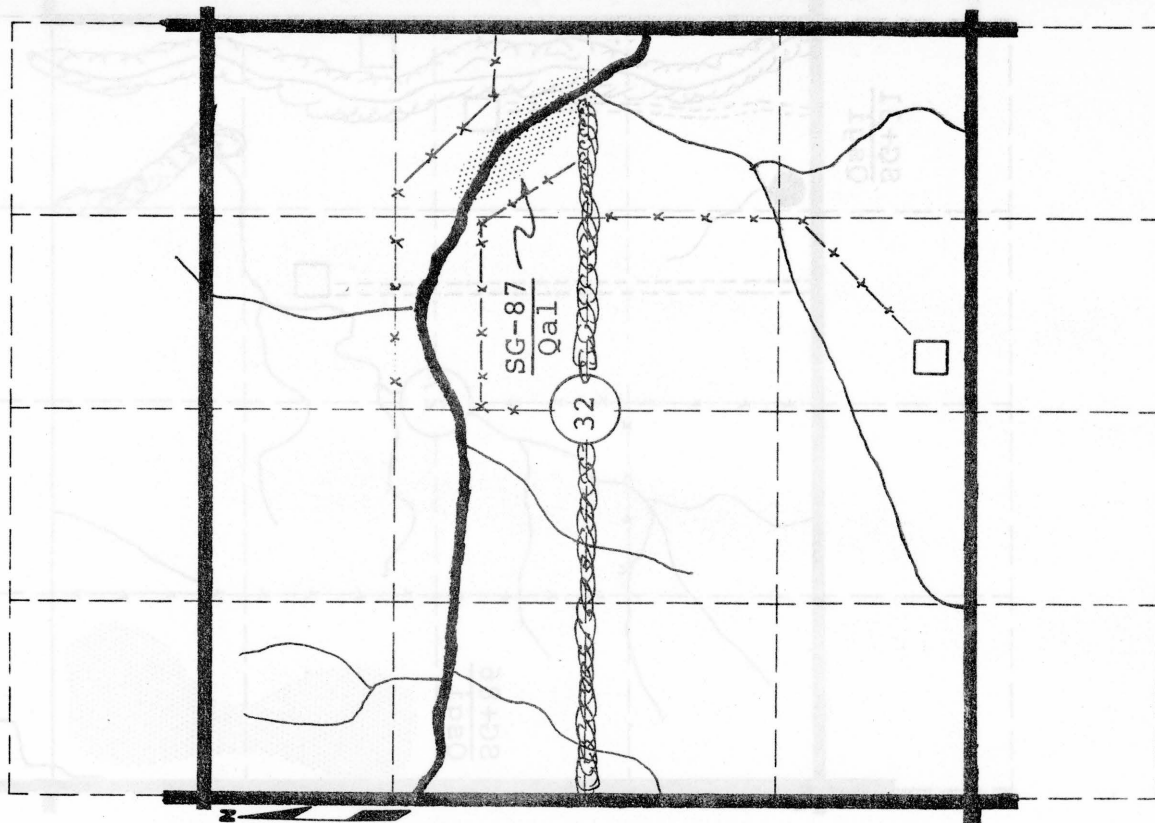
Specific Gravity (Sat.) _____ (Dry) _____

Los Angeles Wear _____

Absorption _____ Soundness _____

Wt. Cu.Ft. _____ Str. Ratio _____

Remarks Site location on Plate VI

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

GLOSSARY OF SIGNIFICANT TERMS

Absorption: Determined by tests performed in accordance with A.A.S.H.O. (American Association of State Highway Officials) designation T 85.

Aggrade: To raise the grade or level of a river valley or stream bed by depositing particles of clay, silt, sand, and gravel.

Alluvium: A deposit of clay, silt, sand, or gravel laid down by flowing water.

Aquifer: Water bearing geologic unit.

Arkosic gravel: Gravel composed of mineral fragments derived from weathered granite.

Caliche: Term used in this report for secondary accumulation of calcium carbonate in unconsolidated deposits.

Chert: A dull, flint-like, siliceous rock.

Consolidated deposit: Deposit of limestone, shale, or sandstone. In Kansas, this term generally applies to rock older than Pliocene age.

Cross-bedding: Sedimentary deposits which show oblique layering extending diagonally across the individual beds.

Degrade: To lower the level of a river valley or stream by washing away particles of clay, silt, sand, and gravel.

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

Geologic unit: This term is used in this report to denote: 1. a geologic formation, 2. a geologic member and 3. an unconsolidated deposit of Pleistocene age.

Glacial deposit: Deposits of clay, silt, sand, gravel, and boulders laid down by glaciers or glacial meltwater.

Gradation factor: The value obtained by adding the percentages of material retained on the 1 1/2", 3/4", 3/8", 4, 8, 16, 30, 50, and 100 sieves respectively and dividing the sum by 100.

Igneous rocks: Rocks produced under conditions involving great heat; as rocks crystallized from a molten material.

Landform: Feature on the land surface such as a terrace, sand dune, floodplain, etc.

Light type surfacing: A surface course constructed from aggregate which is not bound by water, cement, or bituminous material.

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

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

Material source bed: A particular geologic unit, consolidated or unconsolidated, that provides material for construction purposes.

Matrix: The binding material such as that which bonds or encloses sand and gravel particles at their place of deposition.

Metamorphic rock: Rock which has been crystallized or otherwise altered by intense heat and pressure.

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

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

Pleistocene Series: Deposits laid down during the Quaternary Period.

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

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

Stereoscopic vision: Vision through a stereoscope in which objects appear in three dimensions.

Stratigraphic position: Vertical location of a unit in the geologic column.

Terrace: A plain built up by the deposition of sediments by water.

Unconsolidated deposits: Deposits of clay, silt, sand, or gravel. These deposits may be laid down by wind or water action.

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

Weight per cubic foot: Determined by tests performed in accordance with A.A.S.H.O. designation T 19-45.

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