

PROSPECTIVE MATERIALS SITES ; SAMPLED

LEGEND

=====	Trail or lane		
—————	Road	■	Open materials sites; sampled
-+++++	Railroad	●	Open materials sites; not sampled
+++++	Hedge or trees	▼	Prospective materials sites; sampled
~~~~~	Major streams	◼	Prospective materials sites; not sampled
~~~~~ Name		○ 5	Center of section
~~~~~	Intermittent streams	□	Dwelling
~~~~~	Pond or lake	⊕	Cemetery
		Ⓜ	School
		Ⓢ	Church
		▨	Town or city

MATERIAL SITE DATA FORM

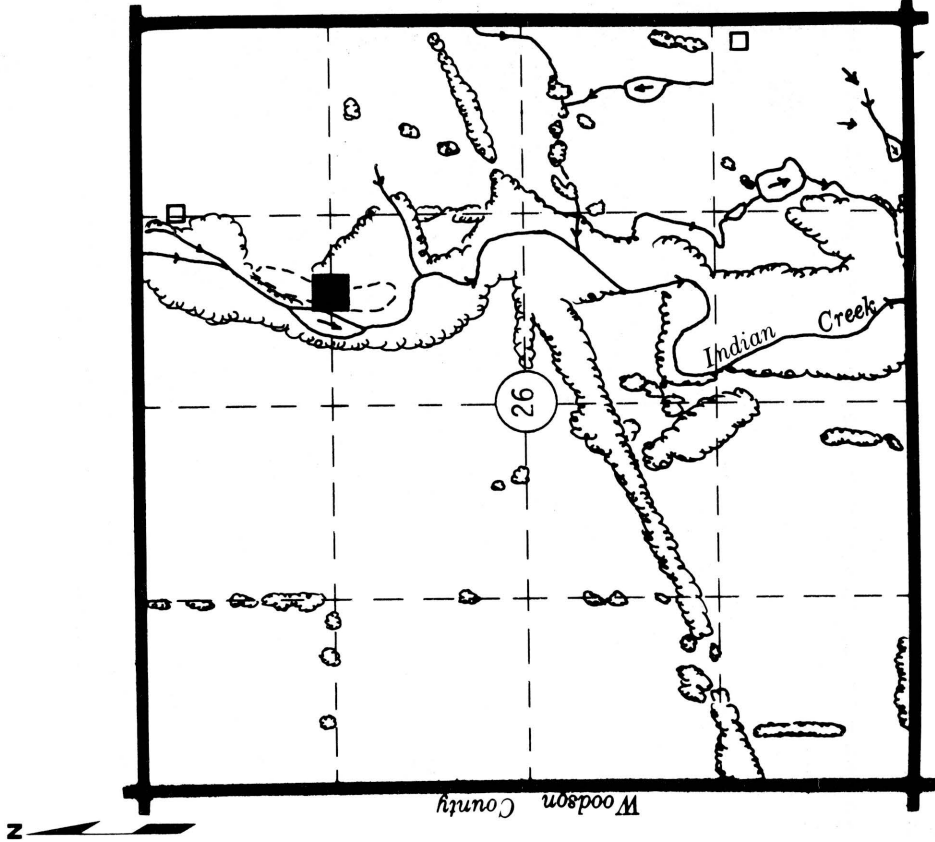
Site No. LS+1 Date November 30, 1978
Ps
 Material Limestone County Allen
 Location W $\frac{1}{2}$, NE $\frac{1}{4}$ Sec. 26 Twp. 23S Range 17E
 Owner Don A. Canady Box 128 La Harpe, KS 66751
 name address
 Nature of Deposit Dry Accessibility Good Site Located on Plate I
 Status of Site Open Materials Site; Sampled

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Stanton Limestone Fm; Stoner Ls, Mbr.
 Material Similar To KDOT Lab No. 74-667
KDOT Materials Department Site No. 1-35
 Specific Gravity (Sat) 2.59, 2.60 (Dry) 2.51, 2.54
 Los Angeles Wear 31(B)
 Absorption 3.0, 2.1 Soundness 0.96
 Wt. Cu. Ft. Str. Ratio
 Remarks Aerial Photo No. AL 14-21



Scale: 1 Inch = 1/4 Mile

MATERIAL SITE DATA FORM

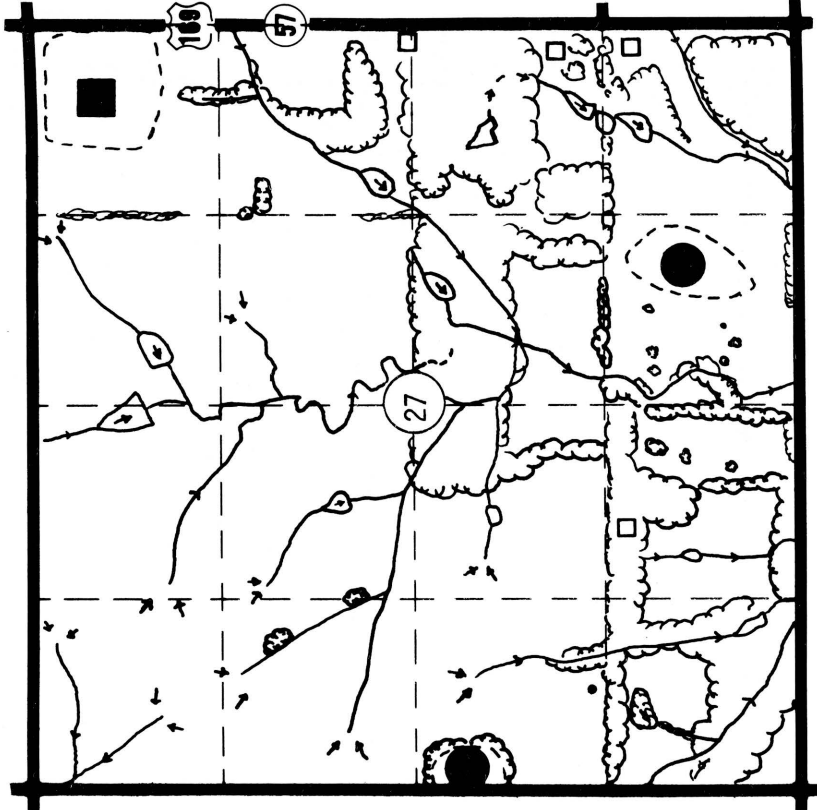
Site No. LS+2 Date November 30, 1978
PS
 Material Limestone County Allen
 Location NE 1/4, NE 1/4 Sec. 27 Twp. 23S Range 18E
 Owner John W. & Olive L. Carpenter Moran, KS 66755
 name address
 Nature of Deposit Dry Accessibility Good Site Located on Plate I
 Status of Site Open Materials Site; Sampled

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Stanton Limestone Fm., Captain Creek Ls. Mbr.
 Material Similar To KDOT Lab No.'s. 22060, 22680, 27087, 65-124
KDOT Materials Department Site No. 1-25
 Specific Gravity (Sat.) 2.65, 2.65, 2.54, 2.66 (Dry) 2.61, 2.63, 2.46, 2.54
 Los Angeles Wear 27.0 (B) 26.7 (B) 31.9 (C) 27.5 (B)
 Absorption 1.39, 1.02, 3.17, 2.42 Soundness 0.97, 0.97, 0.99, 0.99
 Wt. Cu. Ft. Str. Ratio
 Remarks Quarry located 6 mi. north of Iola, KS on US-169.
Periodic portable crushing operation. Aerial photo No. AL 14-17



Scale: 1 inch = 1/4 Mile

MATERIAL SITE DATA FORM

Site No. LS+3 Date November 30, 1978
Pp
 Material Limestone County Allen
 Location NW $\frac{1}{4}$, SW $\frac{1}{4}$ Sec. 20 Twp. 23S Range 19E
 Owner Rollin & Ina Strickler R.R. 2 Colony, KS 66015
 name address
 Nature of Deposit Dry Accessibility Good Site Located on Plate I
 Status of Site Open Materials Site; Sampled

EXPLORATION DATA

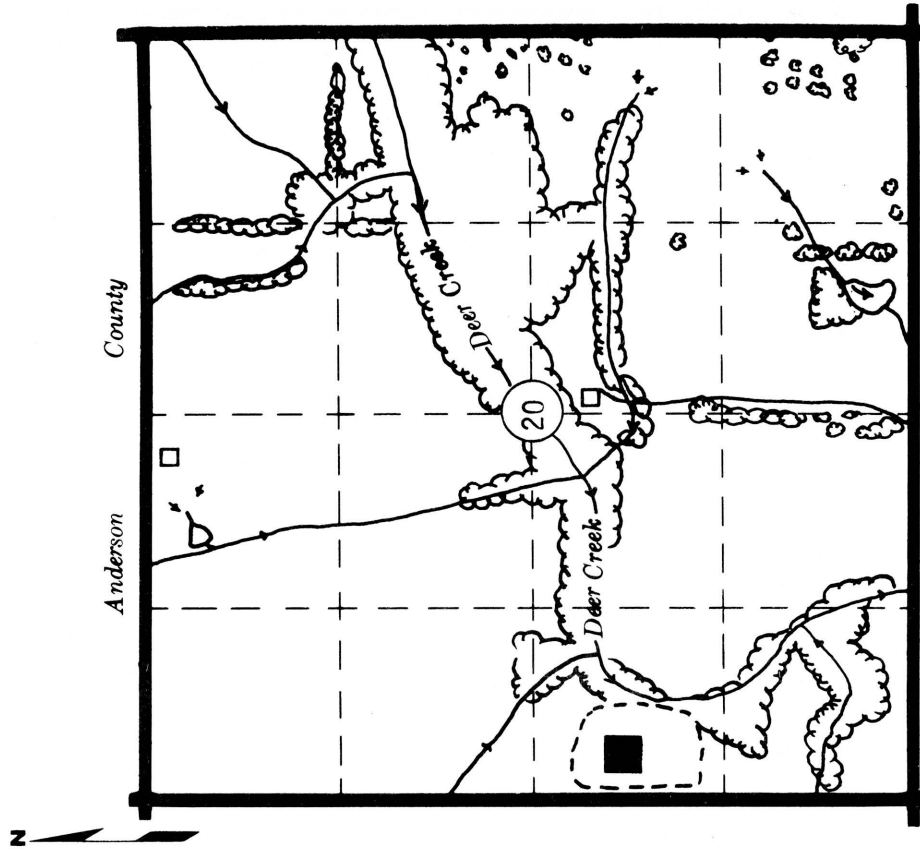
Test Hole	Material at Bottom of Hole	Depth of Over-Burden	Depth of Material	Wash					P.I.				
				1/2"	3/8"	4"	8"	16"		30"	50"	100"	200"

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Plattsburg Limestone Fm., Spring Hill Ls, Mbr.
 Material Similar To KDOT Lab No.'s 69-2335, 69-3169
KDOT Materials Department Site No. I-32

Specific Gravity (Sat) 2.60, 2.60 (Dry) 2.54, 2.55
 Los Angeles Wear 35.3(B), 32.4(B)
 Absorption 2.70, 2.18 Soundness 0.98, 0.97

Wt. Cu. Ft. Str. Ratio
 Remarks Quarry located 3 mi. South and 1 mi. East of Colony, KS
Periodic portable crushing operation. Aerial Photo No. AL 14-14



Scale: 1 Inch = 1/4 Mile

MATERIAL SITE DATA FORM

Site No. LS+4 Date November 30, 1978
pp
 Material Limestone County Allen
 Location SE 1/4, SW 1/4 Sec. 5 Twp. 24S Range 19E
 Owner George, William & Edith Thohoff 115 Sycamore Iola, KS 66749
 name Dry Accessibility Good Site Located on Plate I
 Nature of Deposit Open Materials Site; Sampled
 Status of Site

EXPLORATION DATA

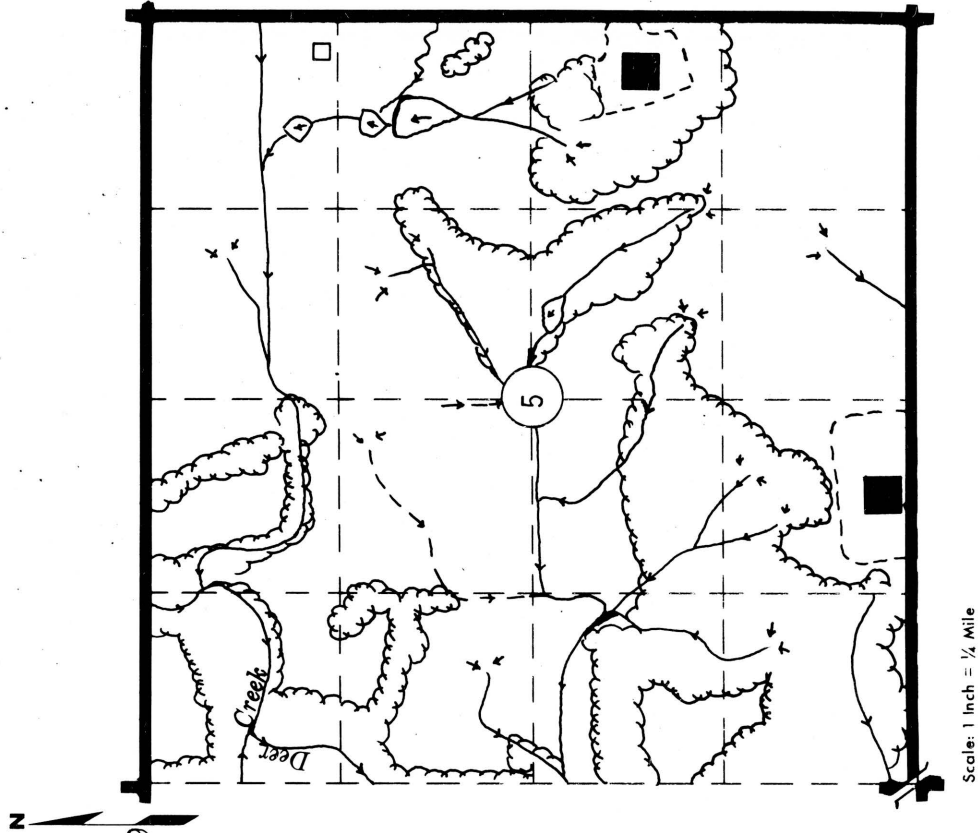
Test Hole	Material at Bottom of Hole	Depth of Over-Burden	Depth of Material	Wash					G.F.	L.L.	P.I.										
				1/2	3/8	4	8	16				30	50	100	200						

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Plattsburg Limestone Fm; Spring Hill Ls. Mbr.
 Material Similar To KDOT Lab No. 68-577 KDOT Materials Department
 Site No. 1-31

Specific Gravity (Sat.) 2.64 (Dry) 2.60
 Los Angeles Wear 30.1(B)
 Absorption 1.66 Soundness 0.96
 Wt. Cu. Ft. Str. Ratio

Remarks Quarry located 4 mi. North & 3 mi. East of Iola, KS
Periodic portable crushing operation. Aerial Photo No. AL 14-31



MATERIAL SITE DATA FORM

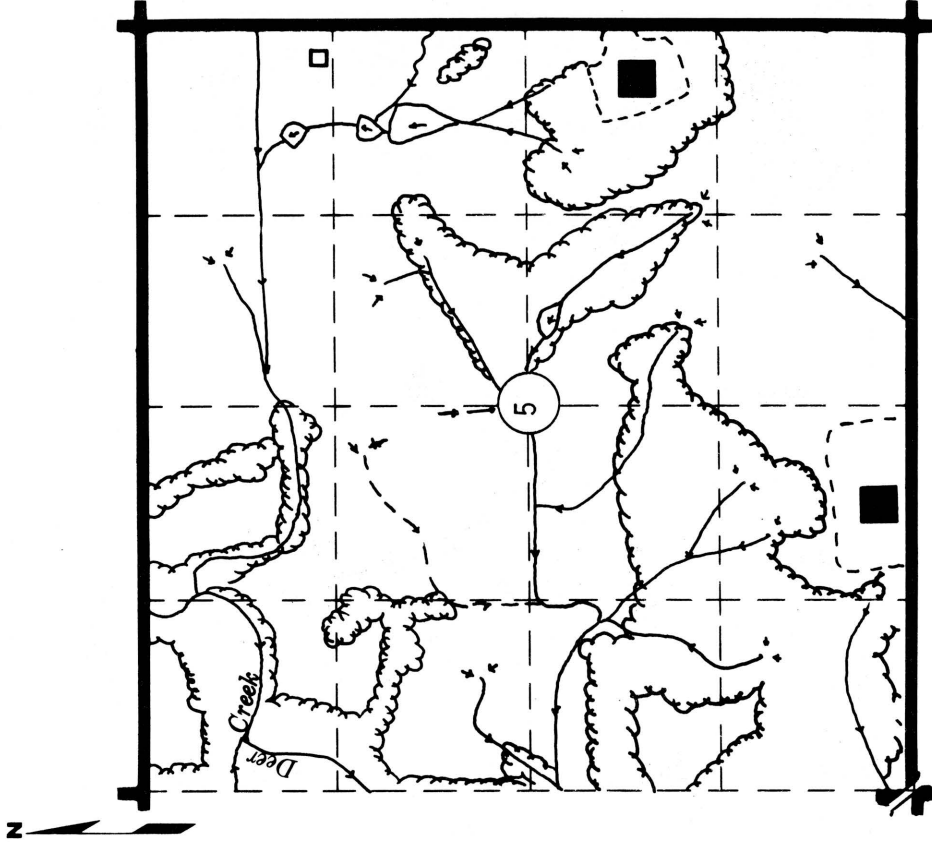
Site No. LS+5 Date November 30, 1978
Pp
 Material Limestone County Allen
 Location NE 1/4, SE 1/4 Sec. 5 Twp. 24S Range 19E
 Owner Larry, Sally, Darrell & Nancy Monfort R.R. 2 Iola, KS 66749
 Nature of Deposit Dry Accessibility Good Site located on Plate I
 Status of Site Open Materials Site; Sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of Overburden	Depth of Material	Wash							P.I.				
				1/2	3/8	4	8	16	30	50		100	200		

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Pittsburg Limestone Fm; Spring Hill Ls. Mbr.
 Material Similar To KDOT Lab. No.s 92878 and 21154
KDOT Materials Department Site No. 1-20
 Specific Gravity (Sat.) 2.62, 2.60 (Dry) 2.56, 2.54
 Los Angeles Wear 28.4(B) 30.2(B)
 Absorption 2.11, 2.34 Soundness 0.94, 0.92
 Wt. Cu. Ft. Str. Ratio
 Remarks Quarry located 3 mi. North and 4.5 mi. East of Iola.
Periodic portable crushing operation. Aerial Photo No. AL 14-31



Scale: 1 Inch = 1/4 Mile

MATERIAL SITE DATA FORM

Site No. LS+6 Date November 30, 1978
Pi
 Material Limestone County Allen
 Location NE 1/4, SE 1/4 Sec. 14 Twp. 24S Range 19E
 Owner Leo & Annie C. Smart Rt. 1 La Harpe, KS 66751
 name address
 Nature of Deposit Dry Accessibility Good Site Located on Plate II
 Status of Site Open Materials Site; Sampled

EXPLORATION DATA

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

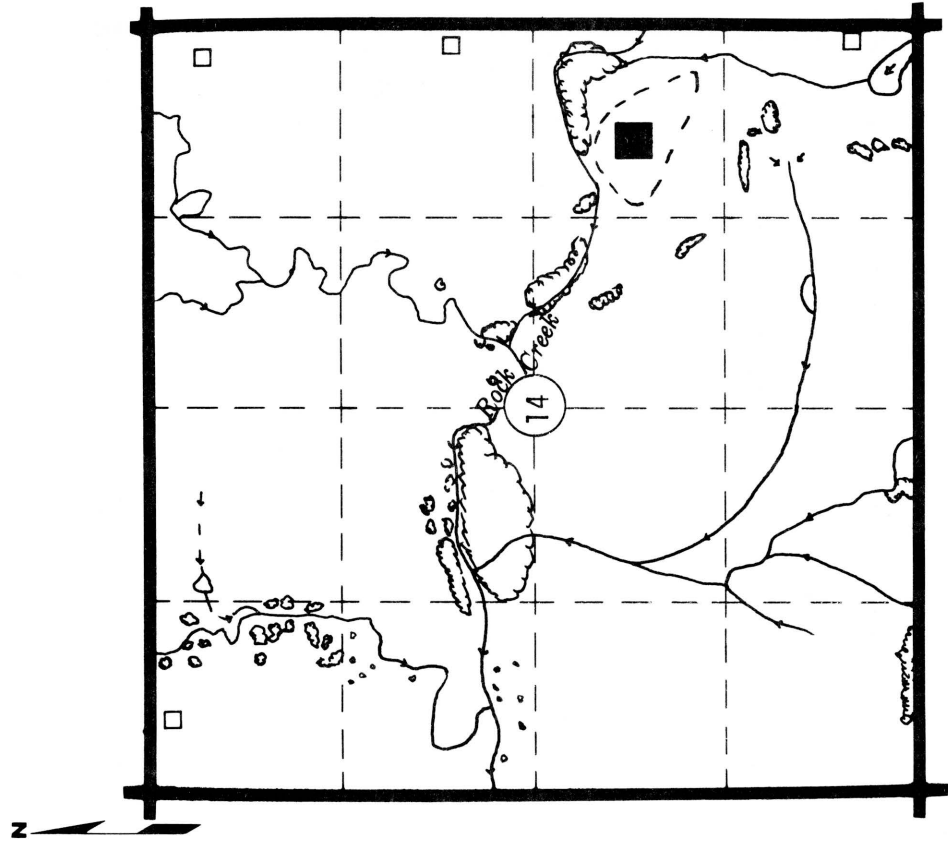
CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Iola Limestone Fm. - Raytown Ls. Mbr.
 Material Similar To KDOT Lab No.'s 24094, 38415
KDOT Materials Department Site No. 1-27

Specific Gravity (Sat.) 2.56, 2.56 (Dry) 2.49, 2.49
 Los Angeles Wear 36.0(B), 32.5(B)
 Absorption 3.11, 2.98 Soundness 0.98, 0.99

Wt. Cu. Ft. _____ Str. Ratio _____

Remarks Quarry located 1 mi. East and 2 1/4 mi. North of La Harpe, KS
Periodic portable crushing operations. Aerial Photo No. AL 14-52



Scale: 1 Inch = 1/4 Mile

MATERIAL SITE DATA FORM

Site No. LS+7 Date November 30, 1978
Pi
 Material Limestone County Allen
 Location NW $\frac{1}{4}$, SW $\frac{1}{4}$ Sec. 2 Twp. 24S Range 20E
 Owner Bess Baker R.R. 1 Moran, KS 66755
 name address
 Nature of Deposit Dry Accessibility Good Site Located on Plate II
 Status of Site Open Materials Site; Sampled

EXPLORATION DATA

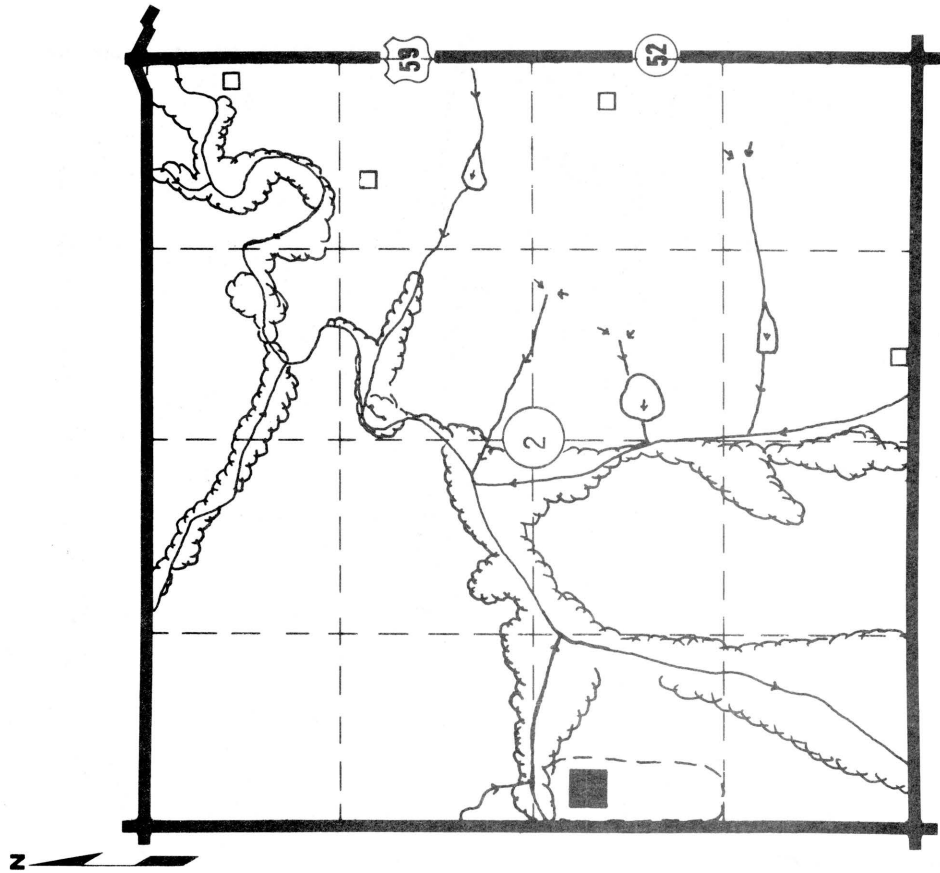
Test Hole	Material at Bottom of Hole	Depth of Overburden	Depth of Material	Wash							G.F.	L.L.	P.I.		
				1/2	3/8	4	8	16	30	50				100	200

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Iola Limestone Fm.; Raytown Ls. Mbr.
 Material Similar To KDOT Lab No.'s 22761, 24253, 25391, 32267
KDOT Materials Department Site No. 1-26

Specific Gravity (Sat.) 2.55, 2.54, 2.54, 2.55 (dry) 2.47, 2.45, 2.46, 2.47
 Los Angeles Wear 34.5(B) 34.4(B) 34.7(B) 34.2(B)
 Absorption 3.09, 3.45, 3.19, 3.07 Soundness 0.98, 0.99, 0.99, 0.98

Wt. Cu. Ft. Str. Ratio
 Remarks Quarry located 4 mi. North, 1 mi. West, 1/4 mi. North of Moran, KS
Portable crushing operation. Aerial Photo No. AL 14-37



MATERIAL SITE DATA FORM

Site No. LS+8
Pi Date November 30, 1978
 Material Limestone County Allen
 Location SE 1/4, NE 1/4 Sec. 9 Twp. 25S Range 18E
 Owner Dale E. & Jacqueline Webb Box 77 Iola, KS 66749
 name address
 Nature of Deposit Dry Accessibility Good Site Located on Plate III
 Status of Site Open Materials Site; Sampled

EXPLORATION DATA

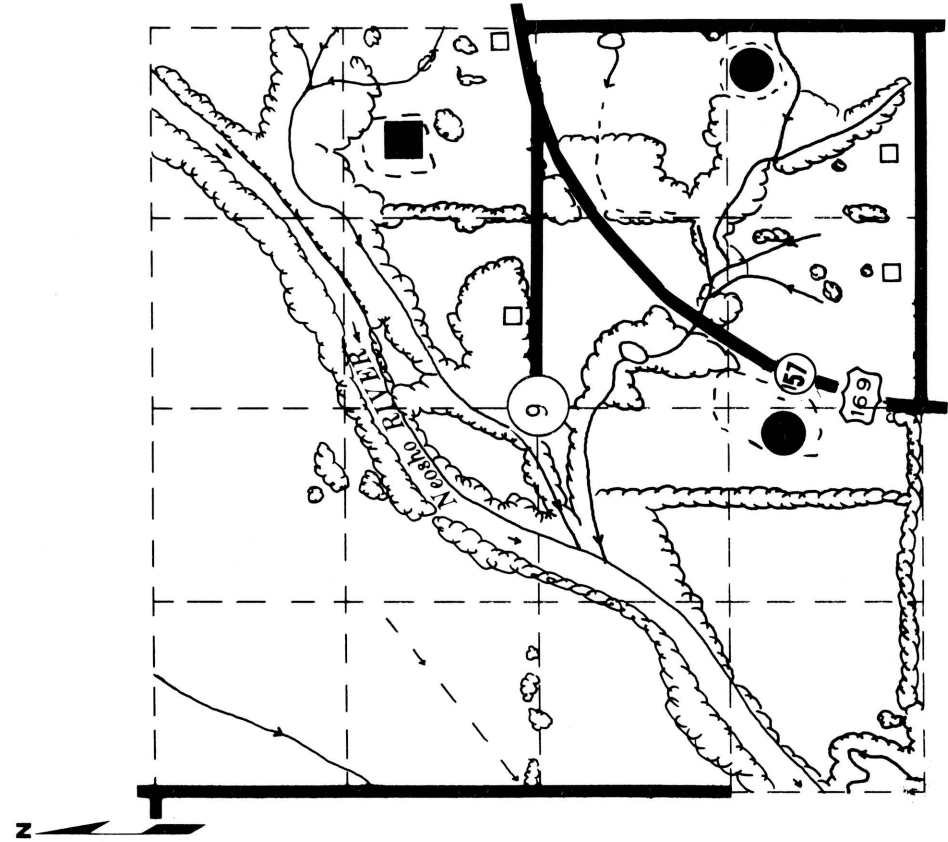
Test Hole	Material at Bottom of Hole	Depth of Overburden	Depth of Material	Wash					G.F.	L.L.	P.I.										
				1/2	3/8	4	8	16				30	50	100	200						

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Iola Limestone Fm.-Raytown Limestone Mbr.
 Material Similar To KDOT Lab No. 77-441 KDOT Materials Department
 Site No. 1-37

Specific Gravity (Sat) 2.57 (Dry) 2.50
 Los Angeles Wear 36(B)
 Absorption 2.8 Soundness 0.99

Wt. Cu. Ft. Str. Ratio
 Remarks Quarry located Southwest of Iola on US-169
Periodic portable crushing operation. Aerial Photo No. AL 14-98



MATERIAL SITE DATA FORM

Site No. LS+9 Date November 30, 1978
Pi
 Material Limestone County Allen
 Location NE $\frac{1}{4}$ Sec. 2 Twp. 25S Range 18E
 Owner Iola Industries Inc. C/O Iola State Bank Iola, KS 66749
 Name Dry Accessibility Good Site Located on Plate III
 Nature of Deposit Open Materials Site; Sampled
 Status of Site _____

EXPLORATION DATA

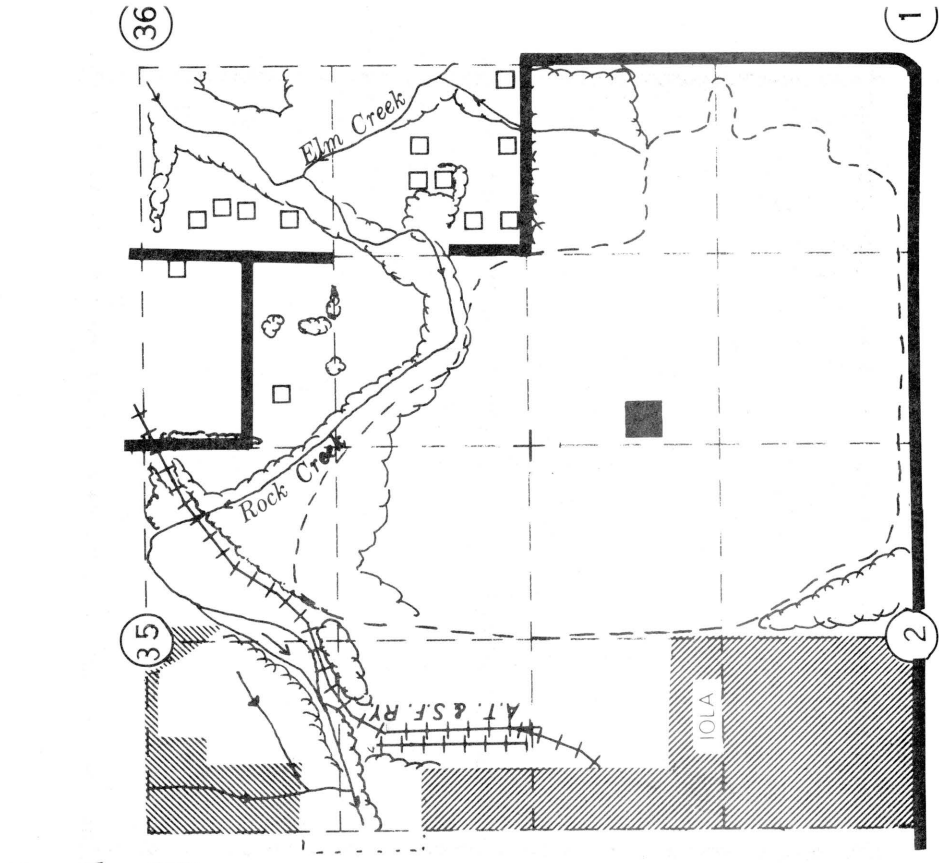
Test Hole	Material at Bottom of Hole	Depth of Over-Burden	Depth of Material	Wash					G.F.	L.L.	P.I.										
				1/2	3/8	4	8	16				30	50	100	200						

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Iola Limestone Fm.-Raytown Limestone Mbr.
 Material Similar To KDOT Lab No. 73-2942 KDOT Materials Department
Site No. 1-34

Specific Gravity (Sat) 2.55, 2.57 (Dry) 2.46, 2.51
36(B)
 Los Angeles Wear 3.5, 2.5 Soundness 0.99
 Absorption _____

Wt. Cu. Ft. _____ Str. Ratio _____
 Remarks *W $\frac{1}{2}$, NW $\frac{1}{4}$ Sec. 1 Twp 25S Range 18E
*S $\frac{1}{2}$, SE $\frac{1}{4}$ Sec. 35 Twp 24S Range 18E Aerial Photo No. AL 14-68



Scale: 1 inch = 1/4 Mile

MATERIAL SITE DATA FORM

Site No. LS+10 Date November 30, 1978
Pi
 Material Limestone County Allen
 Location SW $\frac{1}{4}$ Sec. 33 Twp. 24S Range 19E
 Owner Darrel Stokes Rt. 3 Iola, Kansas 66749
 name address
 Nature of Deposit Dry Accessibility Good Site Located on Plate III
 Status of Site Open Materials Site; Sampled

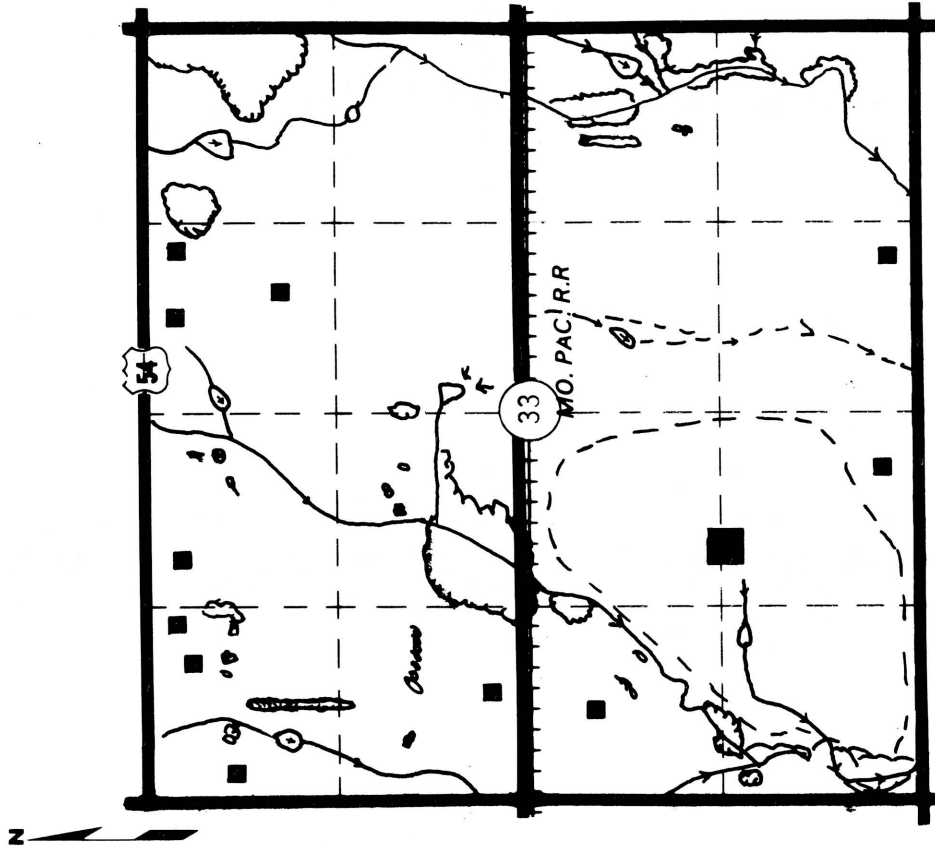
EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Iola Limestone Fm.-Raytown Limestone Mbr.
 Material Similar To KDOT Lab No. 77-495 KDOT Materials Department
Site No. 1-38

Specific Gravity (Sat.) 2.56, 2.60 (Dry) 2.48, 2.54
37(B)
 Los Angeles Wear 3.1 2.2 Soundness 0.99
 Absorption
 Wt. Cu. Ft. Str. Ratio
 Remarks Aerial Photo No. AL 14-72



Scale: 1 inch = 1/4 Mile

MATERIAL SITE DATA FORM

Site No. LS+11 Date November 30, 1978
Pi
 Material Limestone County Allen
 Location SW $\frac{1}{4}$, NW $\frac{1}{4}$ Sec. 34 Twp. 24S Range 19E
 Owner Howard Nelson Rt. 2 La Harpe, KS 66751
 name address
 Nature of Deposit Dry Accessibility Good Site Located on Plate III
 Status of Site Open Materials Site; Sampled

EXPLORATION DATA

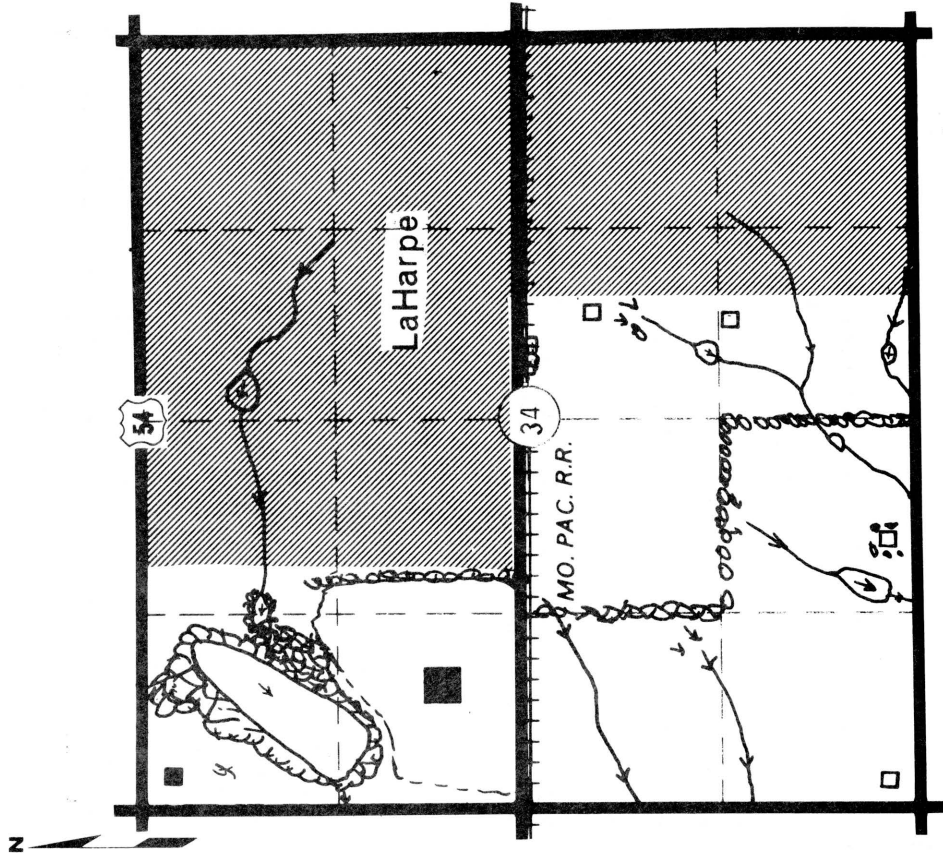
Test Hole	Material at Bottom of Hole	Depth of Over-Burden	Depth of Material	Wash							P.I.		
				1 1/2"	3/8"	4"	8"	16"	30"	50"		100"	200"

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Iola Limestone Fm. - Raytown Ls. Mbr.
 Material Similar To KDOT Lab No.'s 68-816 68-817 69-160 69-159
KDOT Materials Department Site No. 1-29

Specific Gravity (Sat.) 2.58, 2.58, 2.56, 2.57 (Dry) 2.52, 2.50, 2.49, 2.50
 Los Angeles Wear 32.4(B), 35.2(B) 35.8(B) 35.0(B)
 Absorption 2.40, 2.46, 3.11, 2.63 Soundness 0.99, 0.98, 0.97, 0.98

Wt. Cu. Ft. _____ Str. Ratio _____
 Remarks Quarry located 1 mi. West and 1/2 mi. South of La Harpe, KS
 Aerial Photo No. AL-14-72



Scale: 1 inch = 1/4 Mile

MATERIAL SITE DATA FORM

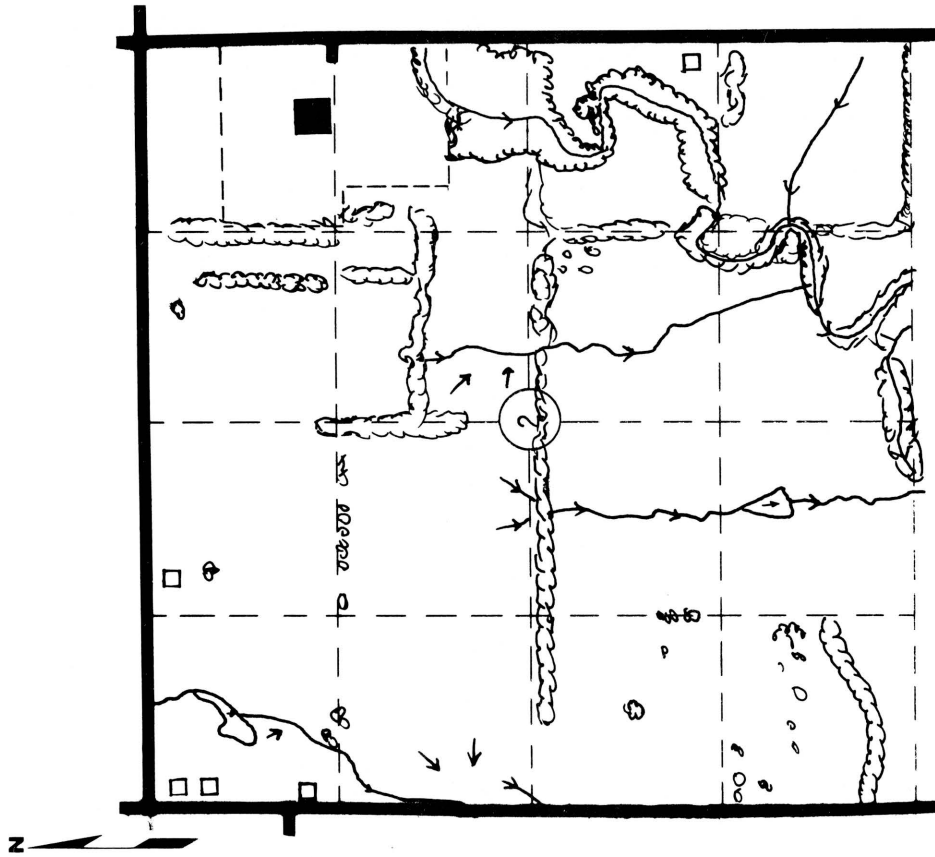
Site No. LS+12 Date November 30, 1978
Pi
 Material Limestone County Allen
 Location E $\frac{1}{2}$, NE $\frac{1}{4}$ Sec. 2 Twp. 25S Range 19E
 Owner Allen Co. Courthouse Iola, KS 66749
 Nature of Deposit Dry Accessibility Good Site Located on Plate IV
 Status of Site Open Materials Site; Sampled

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Iola Limestone Fm. - Raytown Ls. Mbr.
 Material Similar To KDOT Lab No.'s 1413 and 21501
KDOT Materials Department Site No. I-17
 Specific Gravity (Sat.) 2.52, 2.55 (Dry) 2.42, 2.47
 Los Angeles Wear 36.0, 37.5
 Absorption 4.06, 3.15 Soundness 0.94, 0.97
 Wt. Cu. Ft. Str. Ratio
 Remarks Presently used as a county landfill and quarry.
Aerial Photo No. AL 14-72



Scale: 1 Inch = 1/4 Mile

MATERIAL SITE DATA FORM

Site No. LS+13 Date November 30, 1978
Pi
 Material Limestone County Allen
 Location SE 1/4, SW 1/4 Sec. 25 Twp. 24S Range 20E
 Owner Florence & Nelson et.al. La Harpe, KS 66751
 name address
 Nature of Deposit Dry Accessibility Good Site Located on Plate IV
 Status of Site Open Materials Site; Sampled

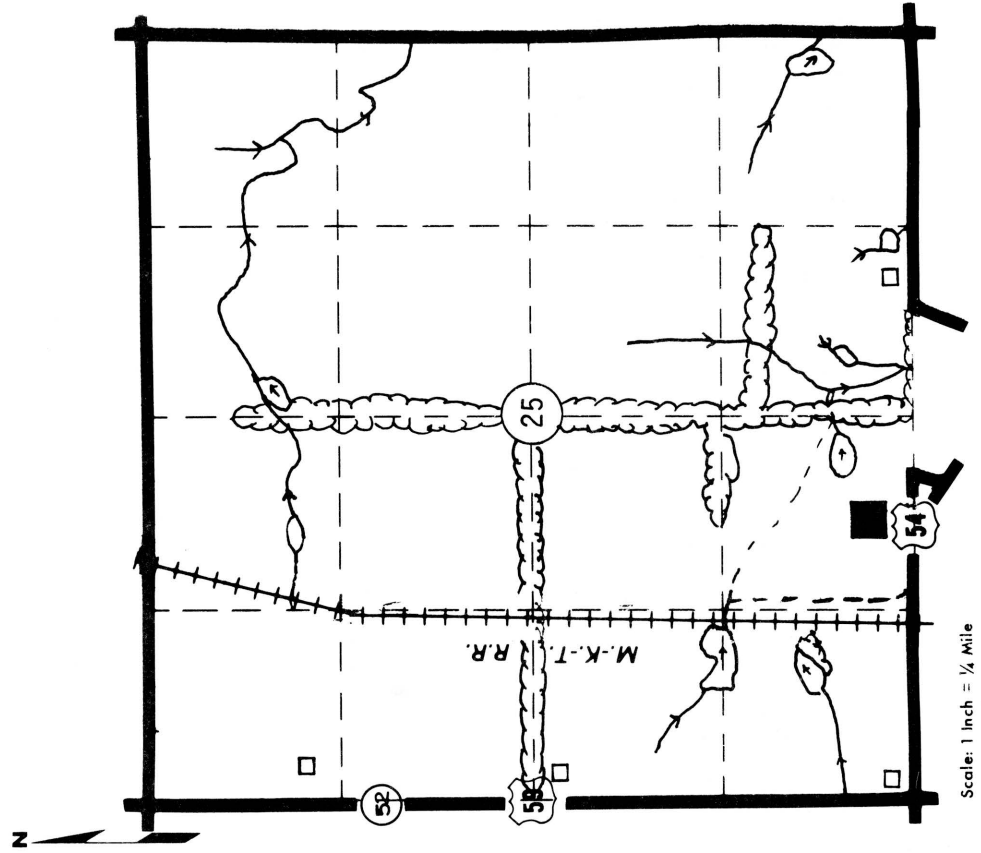
EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Iola Limestone Fm. - Raytown Ls. Mbr.
 Material Similar To KDOT Lab No. 73-328
KDOT Materials Department Site No. I-21

Specific Gravity (Sat.) 2.56, 2.61 (Dry) 2.48, 2.56
 Los Angeles Wear 37(B)
 Absorption 3.30, 1.83 Soundness 0.97
 Wt. Cu. Ft. Str. Ratio
 Remarks Quarry located 0.5 mi. North of Moran, KS.
Periodic portable crushing operation. Aerial Photo No. AL 14-79



MATERIAL SITE DATA FORM

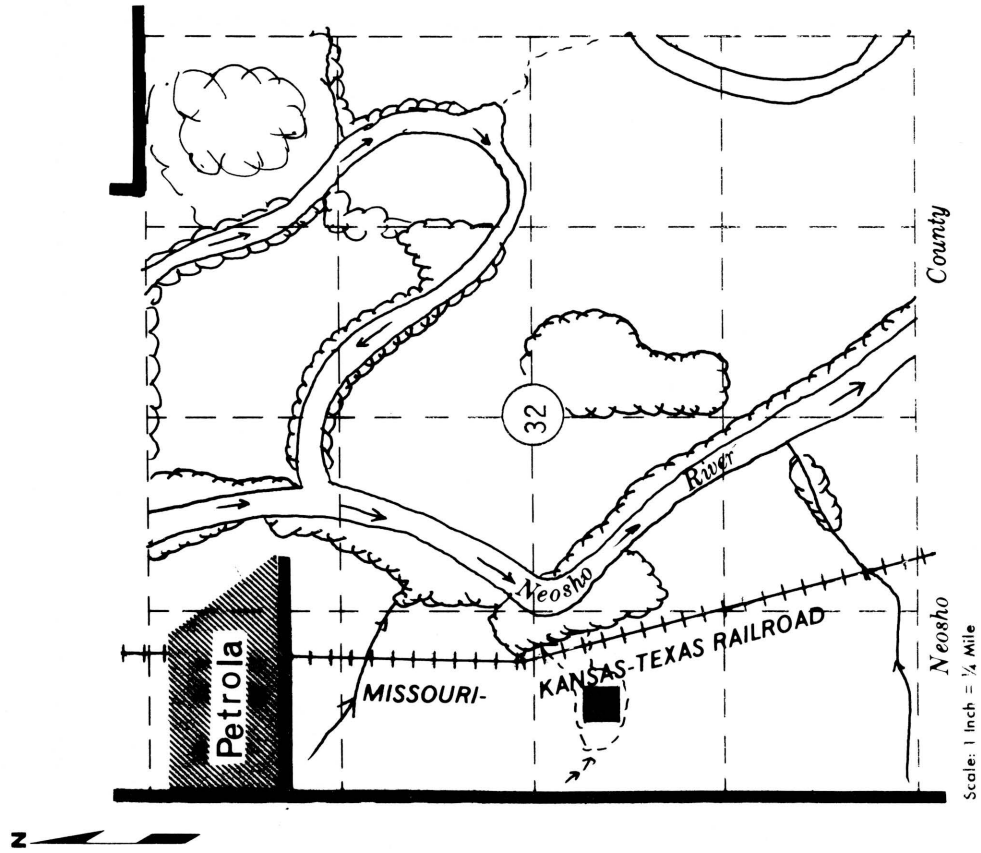
Site No. LS+14 Date November 30, 1978
PI
 Material Limestone County Allen
 Location NW $\frac{1}{4}$, SW $\frac{1}{4}$ Sec. 32 Twp. 26 Range 18
 Owner John A. & Ethel E. Thurman Rt.2 Chanute, KS 66720
 name address
 Nature of Deposit Dry Accessibility Good Site Located on Plate V
 Status of Site Open Materials Site; Sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of Over-Burden	Depth of Material	Wash						P.I.											
				1 1/2	3/8	4	8	16	30		50	100	200								

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Iola Limestone Fm. - Raytown Ls. Mbr.
 Material Similar To KDOT Lab No. 71-3192 KDOT Materials
 Department Site No. 1-33
 Specific Gravity (Sat.) 2.57, 2.62 (Dry) 2.49, 2.58
 Los Angeles Wear 45
 Absorption 3.08, 1.63 Soundness .98
 Wt. Cu. Ft. Abandoned Str. Ratio _____
 Remarks Aerial Photo No. AL 14-178



MATERIAL SITE DATA FORM

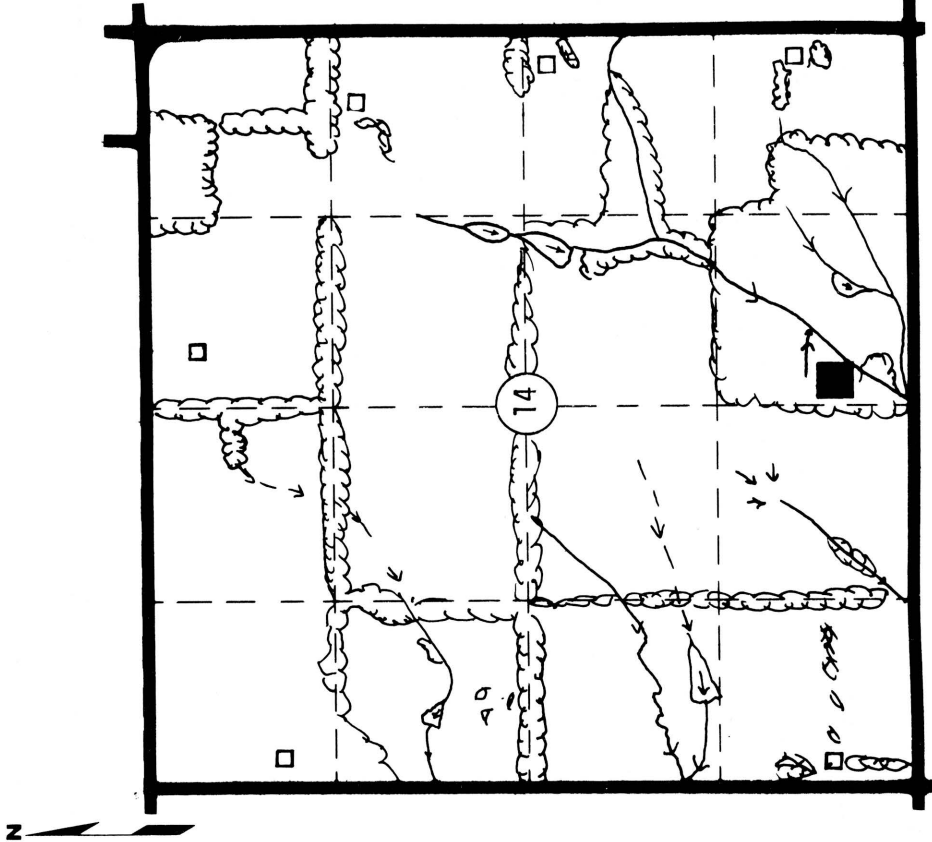
Site No. LS+15 Date November 30, 1978
P1
 Material Limestone County Allen
 Location SW $\frac{1}{4}$, SE $\frac{1}{4}$ Sec. 14 Twp. 26S Range 18E
 Owner George Karl & Emma W. Nordt 1220 Signor Humboldt, KS 66748
 Name Dry Accessibility Good Site Located on Plate V
 Nature of Deposit Open Materials Site; Sampled
 Status of Site _____

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Iola Limestone Fm. - Raytown Ls. Mbr.
 Material Similar To KDOT Lab No.s 31395 & 38417
KDOT Materials Department Site No. 1-28
 Specific Gravity (Sat.) 2.56, 2.59 (Dry) 2.49, 2.53
 Los Angeles Wear 36.3(B), 32.9(B)
 Absorption 2.93, 2.29 Soundness 0.96, 0.99
 Wt. Cu. Ft. _____ Str. Ratio _____
 Remarks Aerial Photo No. AL 14-149



Scale: 1 Inch = 1/4 Mile

MATERIAL SITE DATA FORM

Site No. LS+16 Date November 30, 1978
Pi
 Material Limestone County Allen
 Location NE 1/4, NE 1/4 Sec. 18 Twp. 26S Range 19E
 Owner Merle E. & Eileen Mudler Rt. 2 Humboldt, KS 66748
 name address
 Nature of Deposit Dry Accessibility Good Site Located on Plate V
 Status of Site Open Materials Site; Sampled

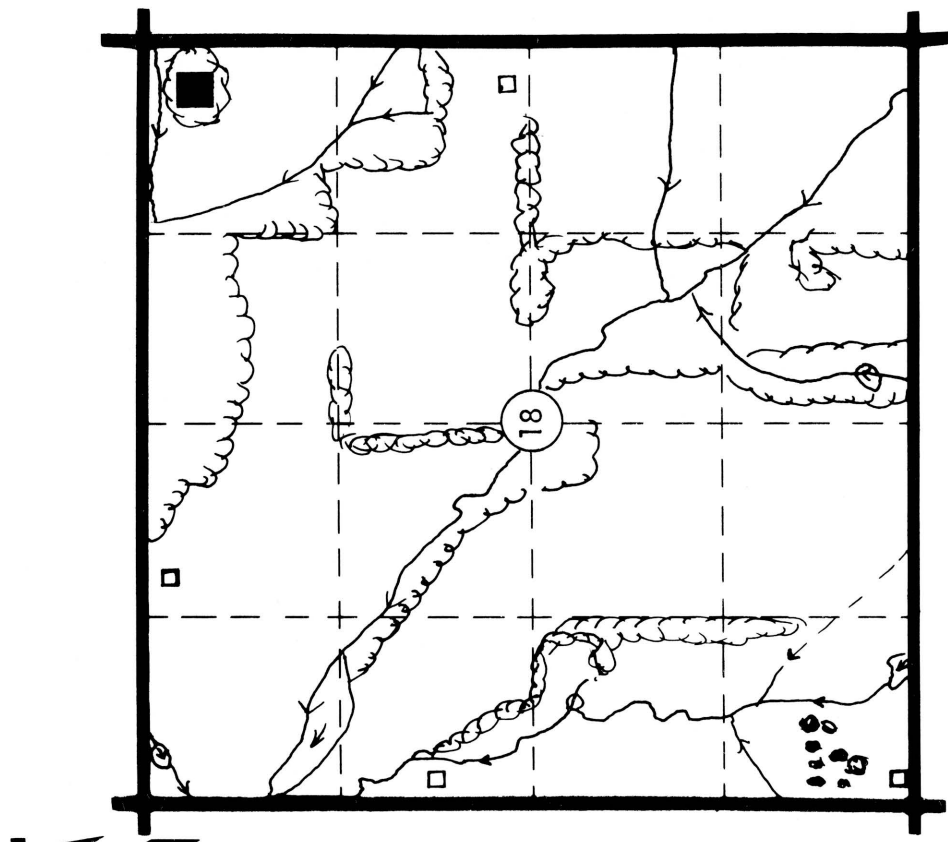
EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Iola Limestone Fm. - Raytown Ls. Mbr.
 Material Similar To KDOT Lab No. 84886
KDOT Materials Department Site No. I-23

Specific Gravity (Sat) 2.57 (Dry) 2.50
 Los Angeles Wear 34.2(B)
 Absorption 2.60 Soundness 0.97
 Wt. Cu. Ft. Str. Ratio
 Remarks Aerial Photo No. AL 14-150



Scale: 1 inch = 1/4 Mile

MATERIAL SITE DATA FORM

Site No. LS+17 Date November 30, 1978
Pi
 Material Limestone County Allen
 Location SE 1/4, SW 1/4 Sec. 32 Twp. 25S Range 19E
 Owner Andrew H. & Mary R. Setter Rt. 2 Humboldt, KS 66748
 name address
 Nature of Deposit Dry Accessibility Good Site Located on Plate V
 Status of Site Open Materials Site; Sampled

EXPLORATION DATA

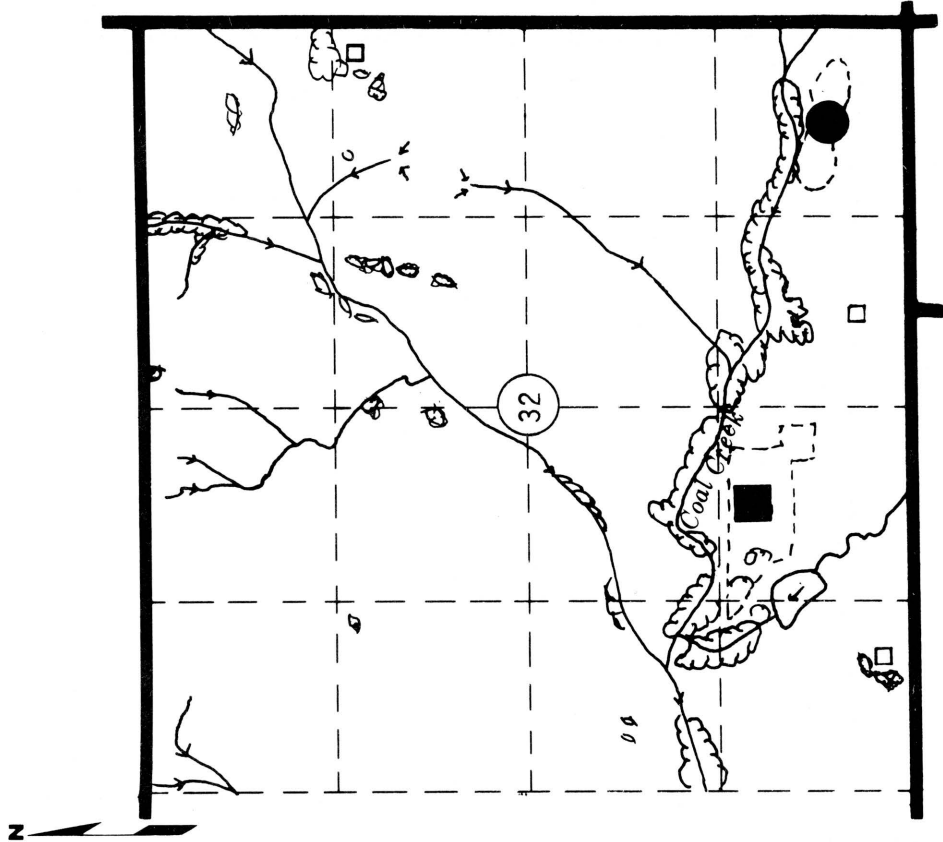
Test Hole	Material at Bottom of Hole	Depth of Over-Burden	Depth of Material	Wash						P.I.					
				1 1/2	3/8	4	8	16	30		50	100	200		

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Iola Limestone Fm. - Raytown Ls. Mbr.
 Material Similar To KDOT Lab No. 68-578
KDOT Materials Department Site No. I-30

Specific Gravity (Sat.) 2.57 (Dry) 2.49
 Los Angeles Wear 38.4(B)
 Absorption 3.10 Soundness 0.98
 Wt. Cu. Ft. Str. Ratio

Remarks Quarry located 5 mi. East & 0.5 mi. North of Humboldt, KS
Periodic portable crushing operation. Aerial Photo No. AL 14-111



MATERIAL SITE DATA FORM

Site No. LS+18 Date November 30, 1978
pi
 Material Limestone County Allen
 Location SE 1/4, SW 1/4 Sec. 9 Twp. 26S Range 19E
 Owner John Keith Croisant 4411 Gardendale Apt. 42 San Antonio, TX. 78240
 name address
 Nature of Deposit Dry Accessibility Good Site Located on Plate V
 Status of Site Open Materials Site; Sampled

EXPLORATION DATA

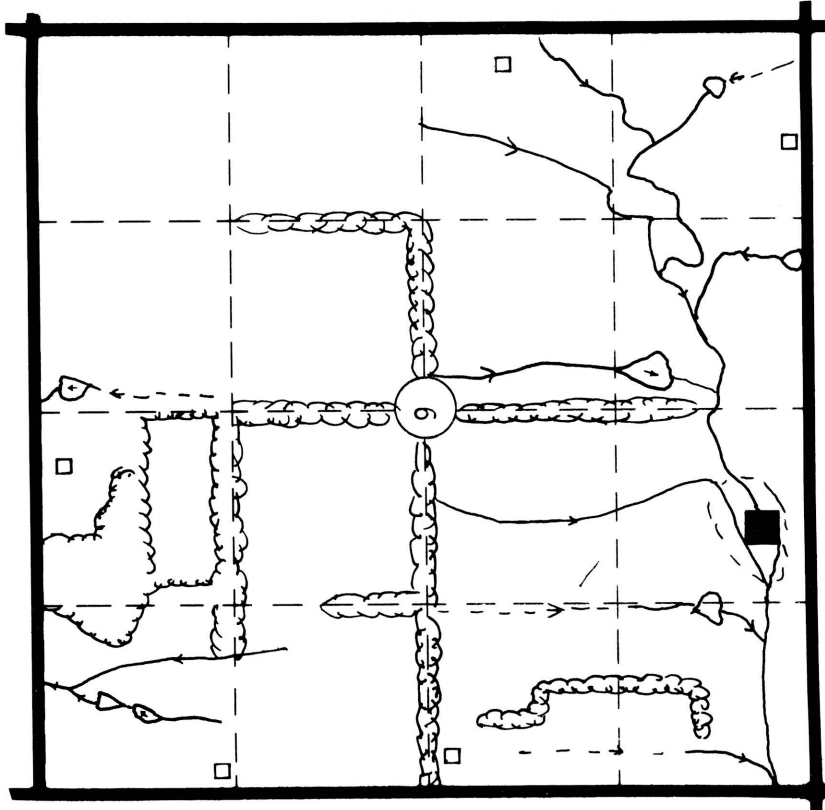
Test Hole	Material at Bottom of Hole	Depth of Over-Burden	Depth of Material	Wash					G.F.	L.L.	P.I.										
				1/2	3/8	4	8	16				30	50	100	200						

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Iola Limestone Fm. - Raytown Ls. Mbr.
 Material Similar To KDOT Lab No. 74-2161
KDOT Materials Department Site No. 1-36

Specific Gravity (Sat.) 2.60 (Dry) 2.53
 Los Angeles Wear 34(B)
 Absorption 2.7 Soundness 0.99
 Wt. Cu. Ft. Str. Ratio

Remarks Quarry located 5 mi. East, 1 1/2 mi. South, 1/2 mi. East of Humboldt, KS
Periodic portable crushing operation. Aerial Photo No. AL 14-133



Scale: 1 Inch = 1/4 Mile

MATERIAL SITE DATA FORM

Site No. LS+19 Date November 30, 1978
Pi
 Material Limestone County Allen
 Location SW $\frac{1}{4}$, NW $\frac{1}{4}$ Sec. 3 Twp. 26S Range 19E
 Owner Andrew H. & Mary R. Setter Rt. 2 Humboldt, KS 66748
 name address
 Nature of Deposit Dry Accessibility Good Site Located on Plate V
 Status of Site Open Materials Site; Sampled

EXPLORATION DATA

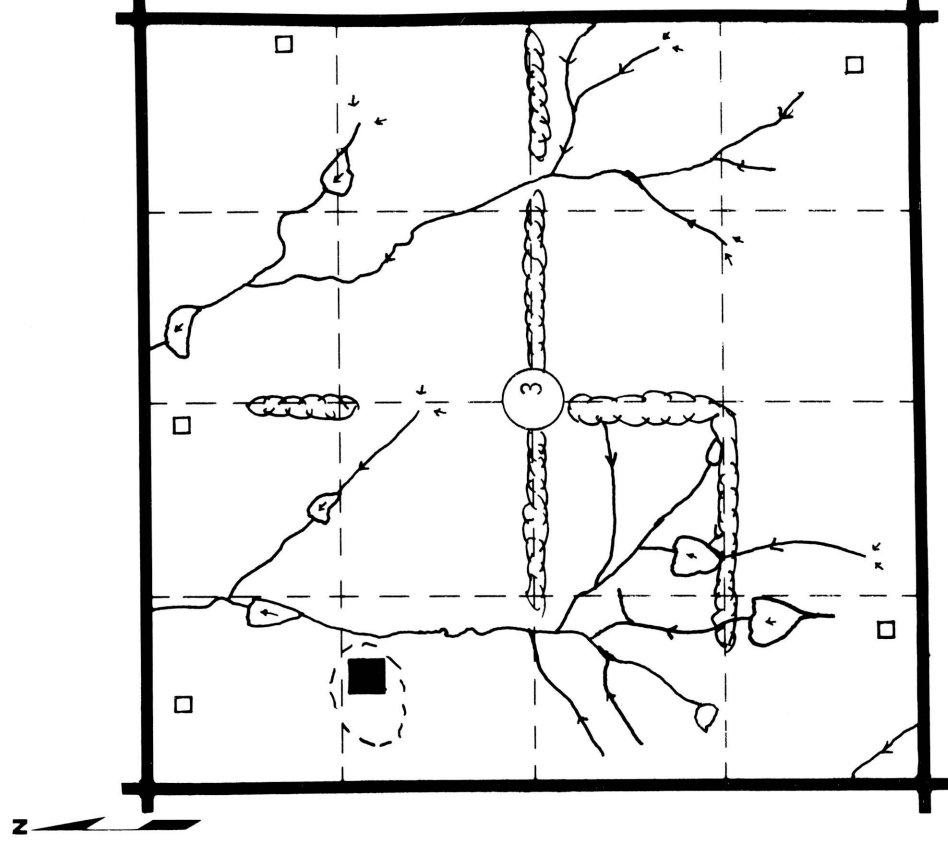
Test Hole	Material at Bottom of Hole	Depth of Over-Burden	Depth of Material	Wash							G.F.	L.L.	P.I.			
				1/2	3/8	4	8	16	30	50				100	200	

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Iola Limestone Fm. - Raytown Ls. Mbr.
 Material Similar To KDOT Lab No.s 19614, 19922, 21565, 32266
KDOT Materials Department Site No. 1-24








Specific Gravity (Sat.) 2.51, 2.53, 2.52 (Dry) 2.43, 2.45, 2.44
 Los Angeles Wear 40.4(B) 39.3(B) 33.6(B) 37.7(B)
 Absorption 3.39, 3.41, 3.23 Soundness 0.98, 0.98, 0.98











Wt. Cu. Ft. Str. Ratio
 Remarks Quarry located 5 mi. East, 1/2 mi. North, 1 mi. East & 1/2 mi. South of Humboldt. Periodic portable crushing operation. Aerial Photo No. AL 14-133



OPEN MATERIALS SITES ; NOT SAMPLED

LEGEND

-  Trail or lane
-  Road
-  Railroad
-  Hedge or trees
-  Major streams
-  Intermittent streams
-  Pond or lake

-  Open materials sites; sampled
-  Open materials sites; not sampled
-  Prospective materials sites; sampled
-  Prospective materials sites; not sampled
-  Center of section
-  Dwelling
-  Cemetery
-  School
-  Church
-  Town or city

MATERIAL SITE DATA FORM

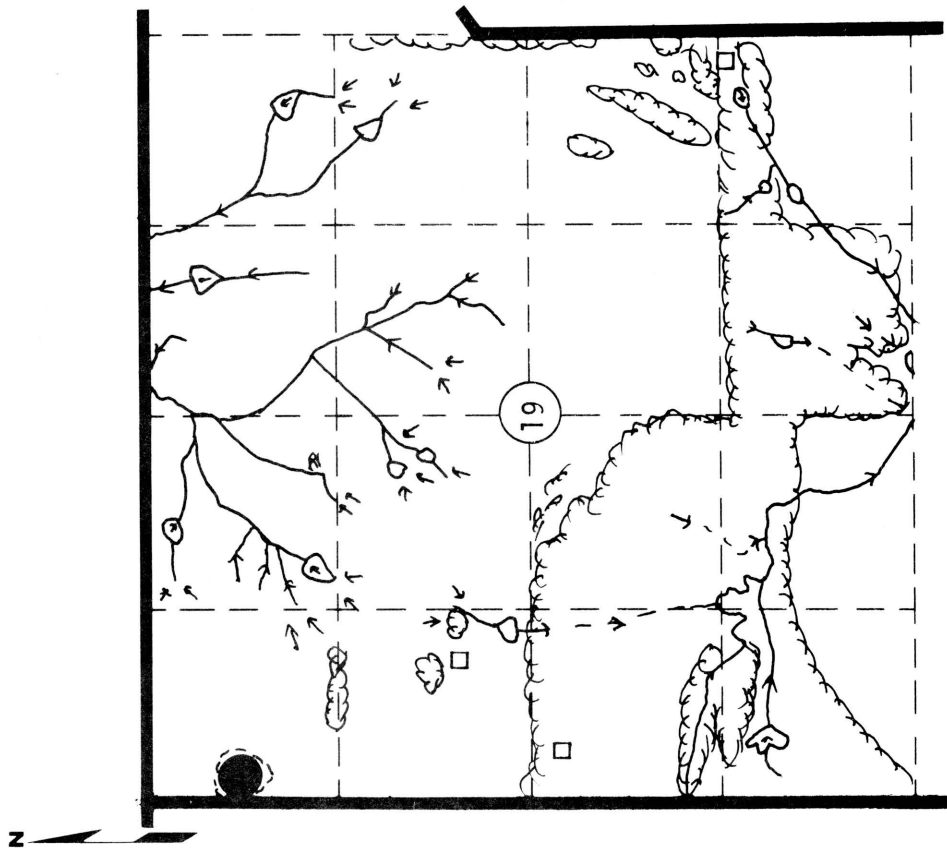
Site No. LS+20 Date November 30, 1978
PS
 Material Limestone County Allen
 Location NW $\frac{1}{4}$, NWR $\frac{1}{4}$ Sec. 19 Twp. 24S Range 18E
Carl R. & Loeva B. Beaty R.R.1 Iola, KS 66749
 Owner name
 Nature of Deposit Dry Accessibility Good Site Located on Plate I
 Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of Overburden	Depth of Material	Wash							P.I.				
				1/2	3/8	4	8	16	30	50		100	200		

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Stanton Limestone Formation - Stoner Ls. Mbr.
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu. Ft. _____ Str. Ratio _____
 Remarks Aerial Photo No. AL 14-60



Scale: 1 inch = 1/4 Mile

MATERIAL SITE DATA FORM

Site No. LS+21 Date November 30, 1978
pp
 Material Limestone County Allen
 Location NW $\frac{1}{4}$, NW $\frac{1}{4}$ Sec. 20 Twp. 24S Range 18E
 Owner Kimbell D. Diehl Rt. 3 Iola, KS 66749
 name address
 Nature of Deposit Dry Accessibility Good Site Located on Plate I
 Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Plattsburg Limestone Fm. - Spring Hill Ls. Mbr.

Material Similar To _____

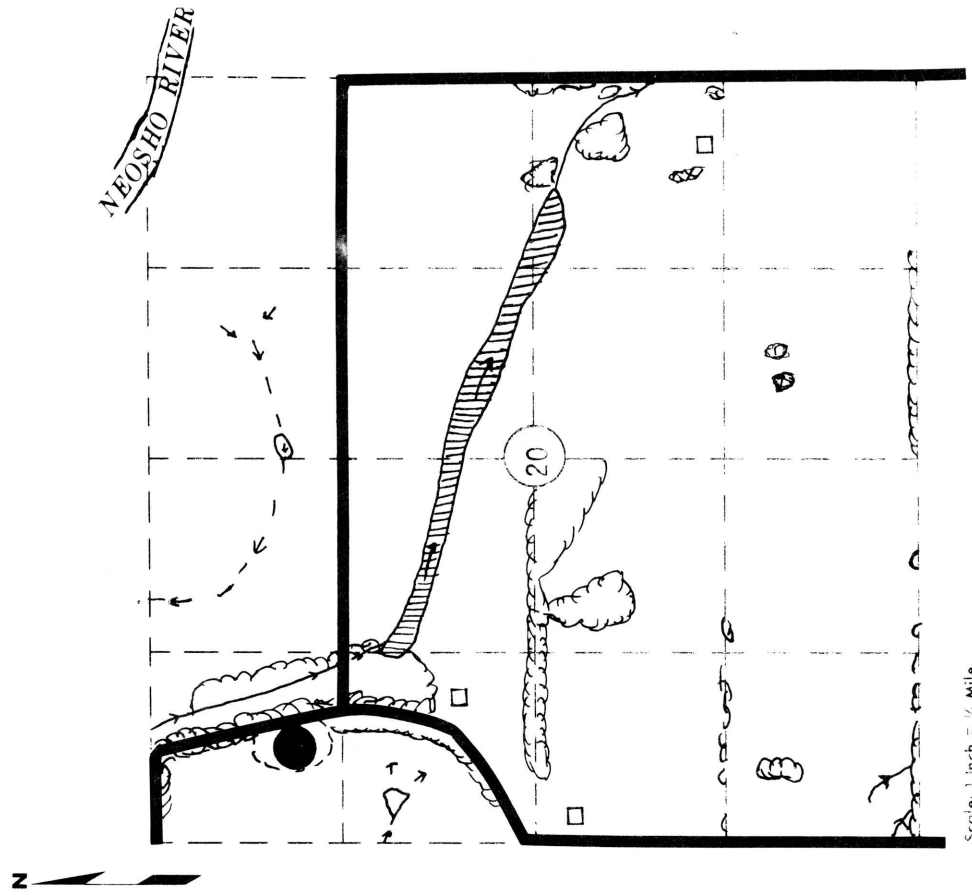
Specific Gravity (Sat.) _____ (Dry) _____

Los Angeles Wear _____

Absorption _____ Soundness _____

Wt. Cu. Ft. _____ Str. Ratio _____

Remarks Aerial Photo No. AL 14-59



MATERIAL SITE DATA FORM

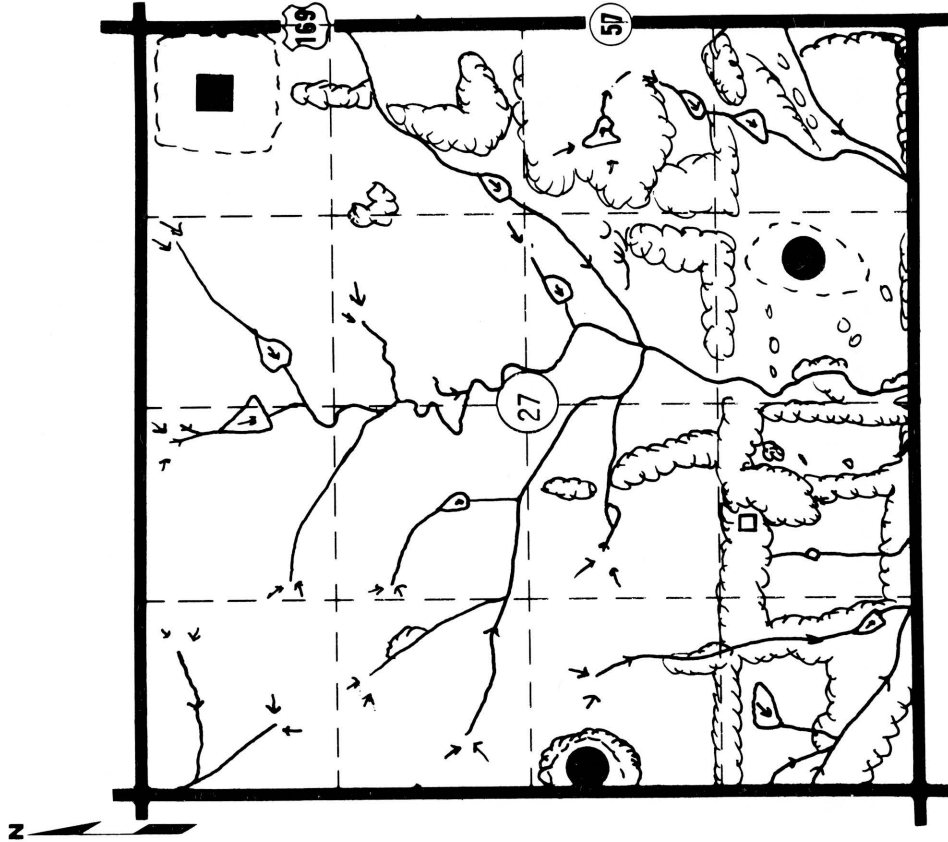
Site No. CG+22 Date November 30, 1978
Qtu
 Material Chert Gravel County Allen
 Location NW $\frac{1}{4}$, SW $\frac{1}{4}$ Sec. 27 Twp. 23S Range 18E
 Owner Dr. F. X. Lenski 703 S. Cottonwood Iola, KS address 66749
 Nature of Deposit Dry Accessibility Good Site Located on Plate I
 Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Quaternary
 Geological Source Undifferentiated Quaternary Terrace
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu. Ft. _____ Str. Ratio _____
 Remarks Difficult to saw if used in concrete
Aerial Photo No. AL 14-17



Scale: 1 Inch = 1/4 Mile

MATERIAL SITE DATA FORM

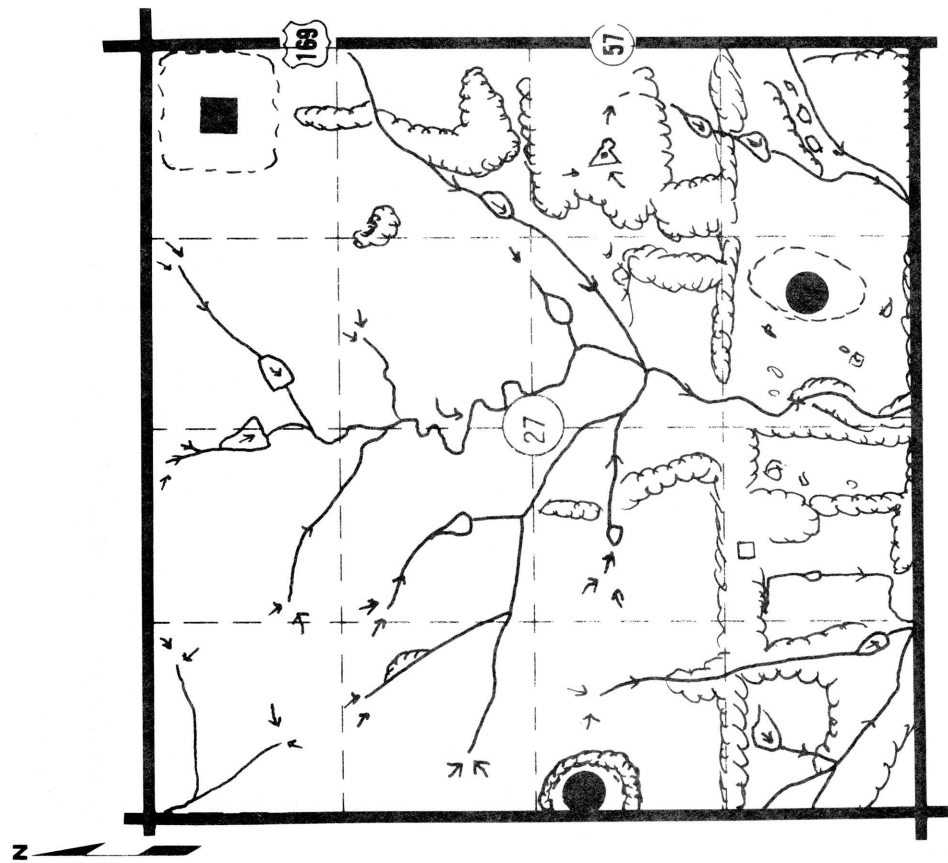
Site No. LS+23 Date November 30, 1978
PS
 Material Limestone County Allen
 Location SW $\frac{1}{4}$, SE $\frac{1}{4}$ Sec. 27 Twp. 23S Range 18E
Ervin M. & Nora L. Regelin R.R.2 Iola, KS 66749
 Owner name Dry Accessibility Good address I
 Nature of Deposit Open Materials Site; Not Sampled Site Located on Plate I
 Status of Site _____

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Stanton Limestone Fm. - Stoner Ls. Mbr.
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu. Ft. _____ Str. Ratio _____
 Remarks Aerial Photo No. AL 14-17



MATERIAL SITE DATA FORM

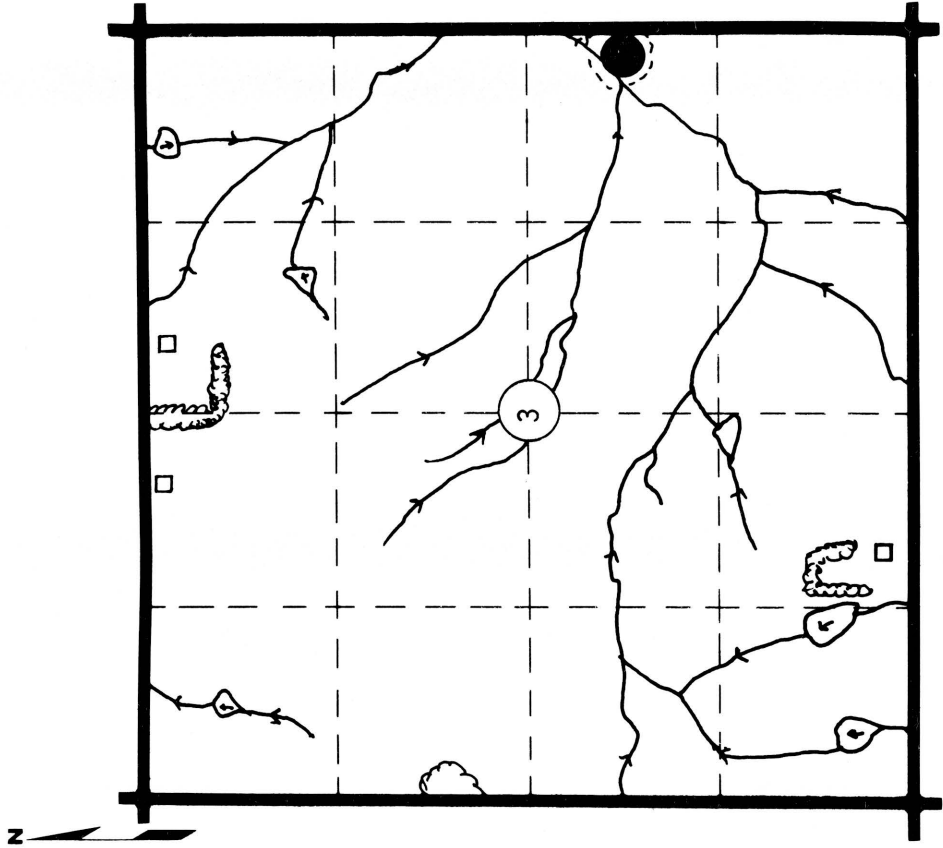
Site No. LS+24 Date November 30, 1978
Pi
 Material Limestone County Allen
 Location NE $\frac{1}{4}$, SE $\frac{1}{4}$ Sec. 3 Twp. 24S Range 20E
 Owner Francis & Martin Maca R.R.3, Box 27 Yukon, OK 73099
 Nature of Deposit Dry Accessibility Good Site Located on Plate II
 Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of Overburden	Depth of Material	Wash							P.I.				
				1/2	3/8	4	8	16	30	50		100	200		

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Iola Limestone Fm. - Raytown Ls. Mbr.
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu. Ft. _____ Str. Ratio _____
 Remarks Aerial Photo No. AL 14-37



Scale: 1 Inch = 1/4 Mile

MATERIAL SITE DATA FORM

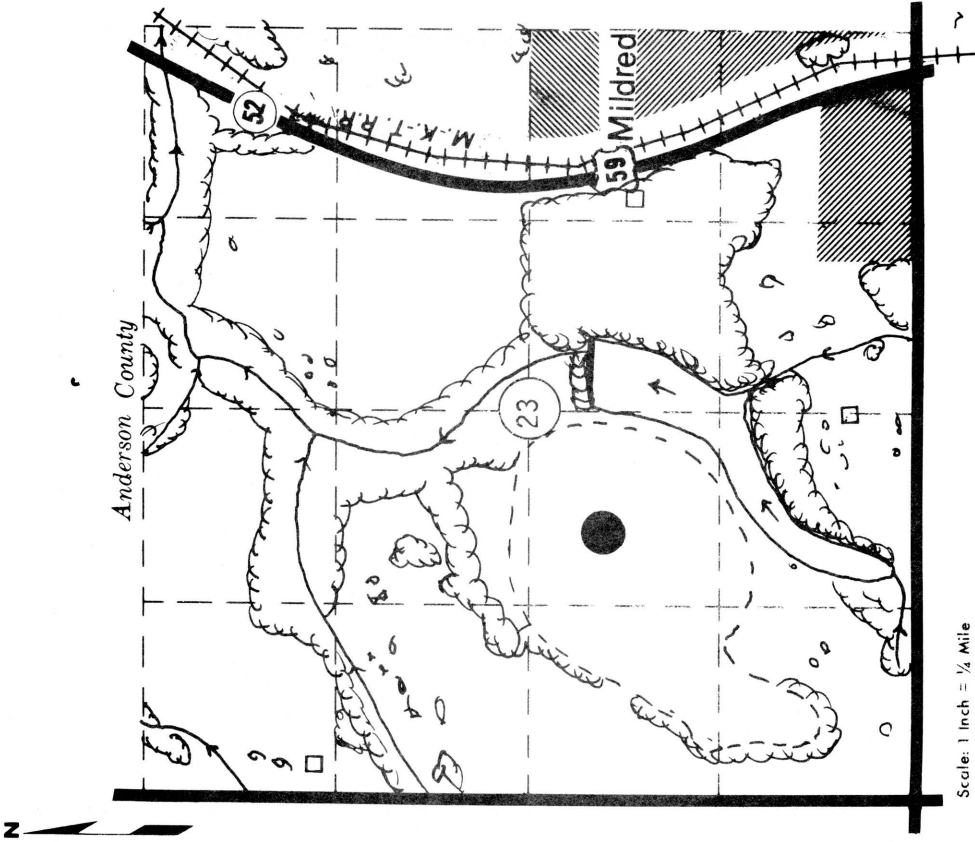
Site No. LS+25 Date November 30, 1978
Pi
 Material Limestone County Allen
 Location SW $\frac{1}{4}$ Sec. 23 Twp. 23S Range 20E
 Owner Ira W. Jr. & Shirley Ann Anderson R.R.1 Bronson, KS 66716
 name address
 Nature of Deposit Dry Accessibility Good Site Located on Plate II
 Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Iola Limestone Fm. - Raytown Ls. Mbr.
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu. Ft. _____ Str. Ratio _____
 Remarks Aerial Photo No. AL 14-7



MATERIAL SITE DATA FORM

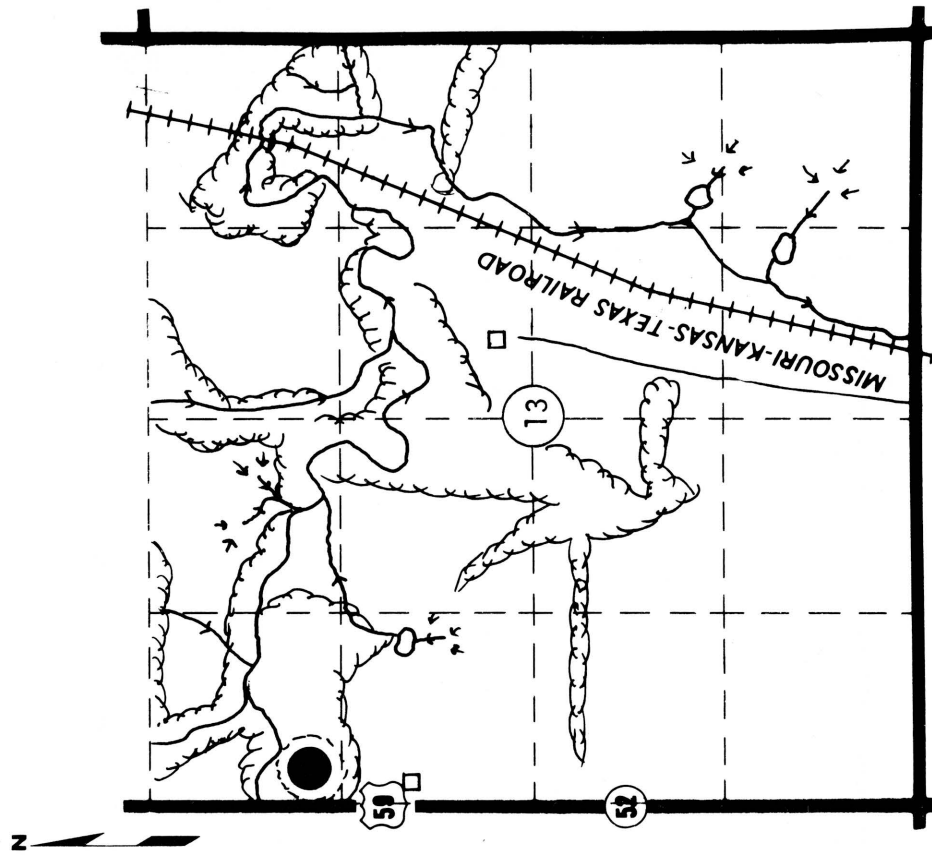
Site No. LS+26 Date November 30, 1978
Pi
 Material Limestone County Allen
 Location NW $\frac{1}{4}$, NW $\frac{1}{4}$ Sec. 13 Twp. 24S Range 20E
 Owner Lester F. & Edith P. Coles La Harpe, KS 66751
 name address
 Nature of Deposit: Dry Accessibility Good Site Located on Plate II
 Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of Overburden	Depth of Material	Wash							P.I.				
				1 1/2	3/8	4	8	16	30	50		100	200		

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Iola Limestone Fm. - Raytown Ls. Mbr.
 Material Similar To _____
 Specific Gravity (Sat) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu. Ft. _____ Str. Ratio _____
 Remarks Aerial Photo No. AL 14-47



Scale: 1 Inch = 1/4 Mile

MATERIAL SITE DATA FORM

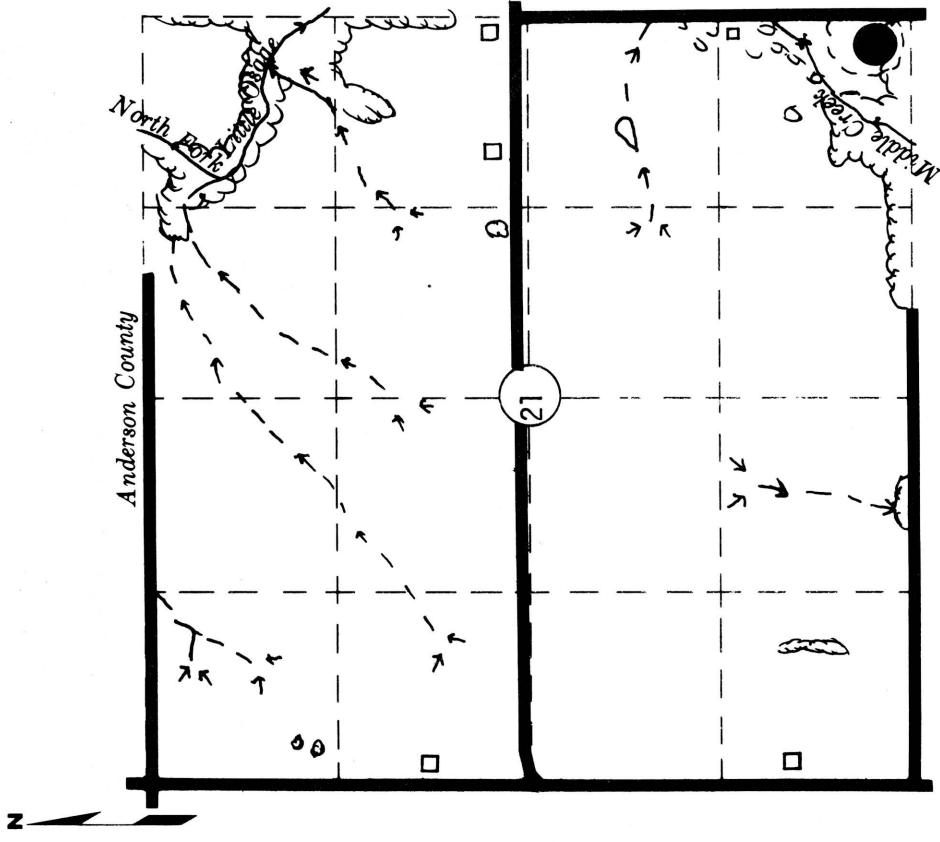
Site No. LS+27 Date November 30, 1978
Pd
 Material Limestone County Allen
 Location SE $\frac{1}{4}$, SE $\frac{1}{4}$, Sec. 21 Twp. 23S Range 21E
 Owner Mable Alumbaugh et.al. Box 924 Moran, KS 66755
name address
 Nature of Deposit Dry Accessibility Good Site Located on Plate II
 Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Dennis Limestone Fm. - Winterset Ls. Mbr.
 Material Similar To _____
 Specific Gravity (Sat) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu. Ft. _____ Str. Ratio _____
 Remarks Aerial Photo No. AL 14-3



MATERIAL SITE DATA FORM

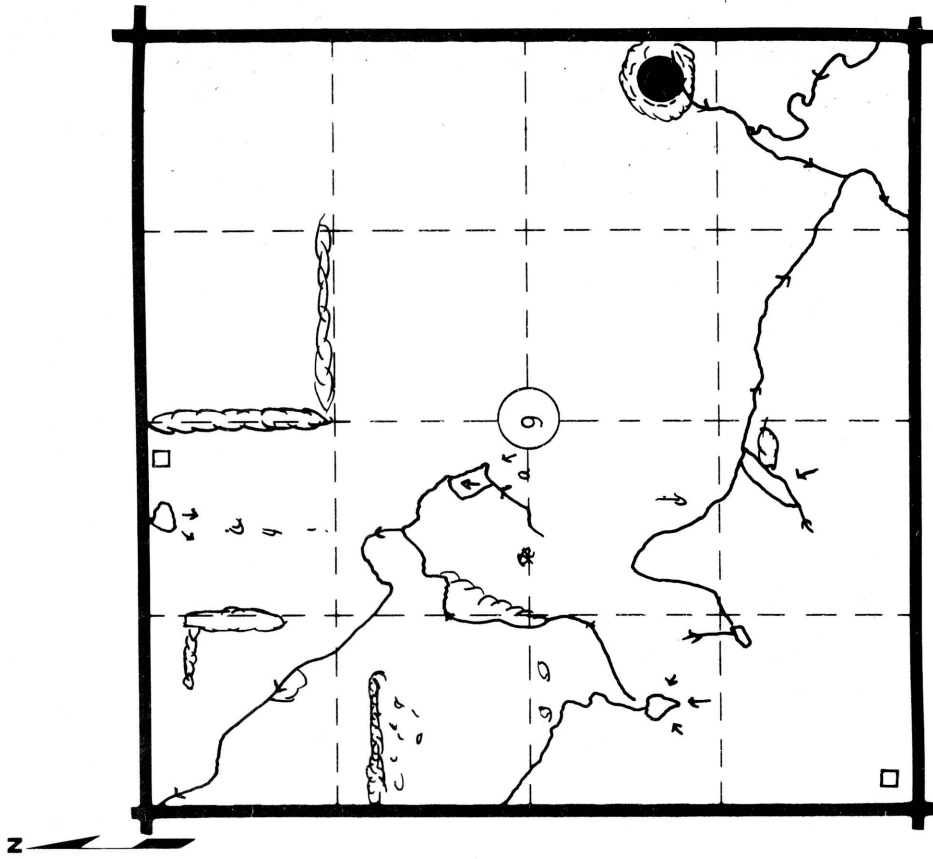
Site No. LS+28 Date November 30, 1978
Pd
 Material Limestone County Allen
 Location NE $\frac{1}{4}$, SE $\frac{1}{4}$ Sec. 9 Twp. 24S Range 21E
 Owner George & Gertrude Meuves Rt. 1 Kincaid, KS 66039
 name address
 Nature of Deposit Dry Accessibility Good Site Located on Plate II
 Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Dennis Limestone Fm. - Winterset Ls. Mbr.
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu. Ft. _____ Str. Ratio _____
 Remarks Abandoned
Aerial Photo No. AL 14-40



Scale: 1 Inch = 1/4 Mile

MATERIAL SITE DATA FORM

Site No. LS+29 Date November 30, 1978
PS
 Material Limestone County Allen
 Location SW $\frac{1}{4}$, SE $\frac{1}{4}$ Sec. 25 Twp. 24S Range 17E
 Owner Lawrence A. & Marjorie M. Kramer R.R. 1 Iola, KS 66749
 name address
 Nature of Deposit Dry Accessibility Good Site Located on Plate III
 Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of Overburden	Depth of Material	Wash							P.I.				
				1/2	3/8	4	8	16	30	50		100	200		

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Stanton Limestone Fm. - Stoner Ls. Mbr.

Material Similar To _____

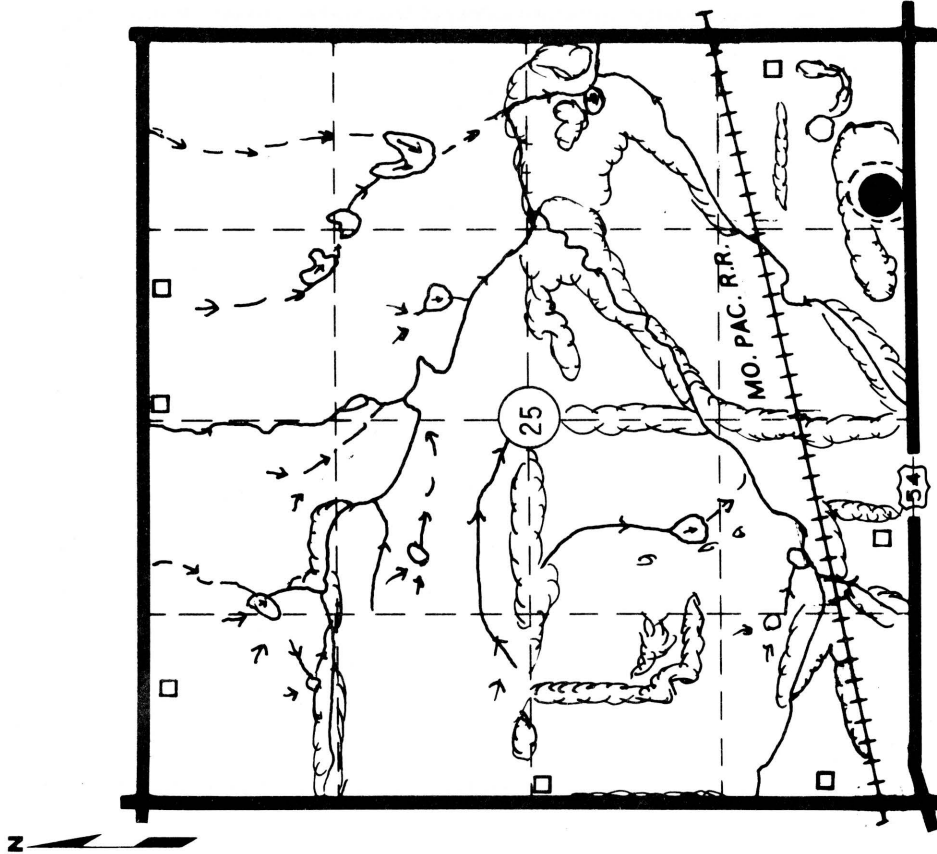
Specific Gravity (Sat) _____ (Dry) _____

Los Angeles Wear _____

Absorption _____ Soundness _____

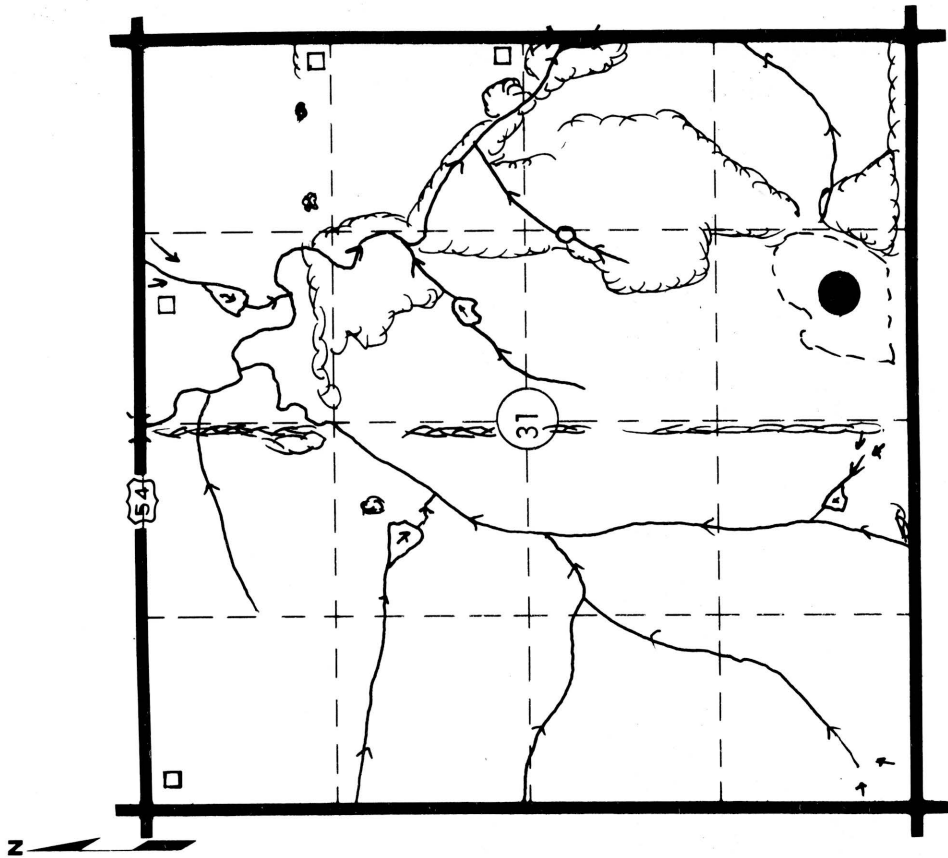
Wt. Cu. Ft. _____ Str. Ratio _____

Remarks Aerial Photo No. AL 14-65



MATERIAL SITE DATA FORM

Site No. CG+30 Date November 30, 1978
Otu
 Material Chert Gravel County Allen
 Location SW $\frac{1}{4}$, SE $\frac{1}{4}$ Sec. 31 Twp. 24S Range 18E
 Owner Anna Waber C/O James T. Waber 2324 Hartzell St., Evanston, IL 60201
 Nature of Deposit Dry Accessibility Good Site Located on Plate III
 Status of Site Open Materials Site; Not Sampled



EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of Overburden	Depth of Material					Wash	G.F.	L.L.	P.I.
			1/2	3/8	4	8	16				

CORRELATION DATA

Geological Age Quaternary
 Geological Source Undifferentiated Quaternary Terrace
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu. Ft. _____ Str. Ratio _____
 Remarks Aerial Photo No. AL 14-65

MATERIAL SITE DATA FORM

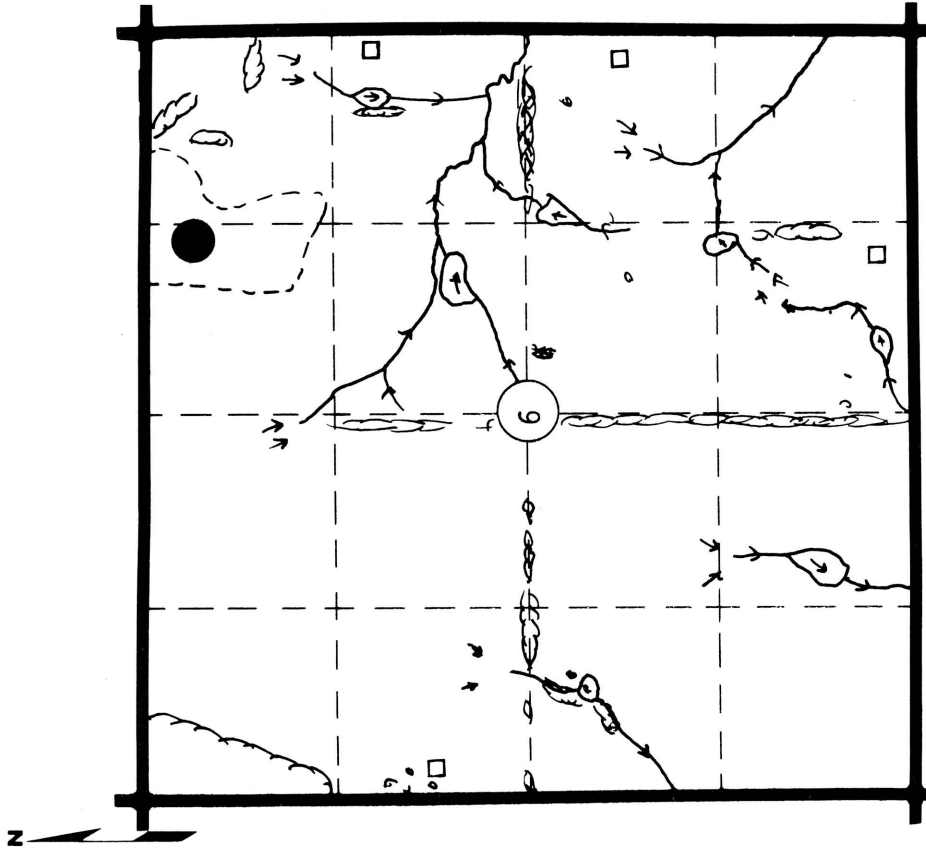
Site No. CG+31 Date November 30, 1978
Qtz
 Material Chert Gravel County Allen
 Location NE 1/4 Sec. 6 Twp. 25S Range 18E
 Owner Claude Lee & Nellie Nola Falley R.R.1 Iola, KS 66749
 name Dry Accessibility Good Site Located on Plate III
 Nature of Deposit Open Materials Site; Not Sampled
 Status of Site _____

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of Over-Burden	Depth of Material	Wash							P.I.				
				1/2	3/8	4	8	16	30	50		100	200		

CORRELATION DATA

Geological Age Quaternary
 Geological Source Undifferentiated Quaternary Terrace
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu. Ft. _____ Str. Ratio _____
 Remarks Difficult to saw when used in concrete.
Aerial Photo No. AL 14-65



Scale: 1 inch = 1/4 Mile

MATERIAL SITE DATA FORM

Site No. LS+32 Date November 30, 1978
Pi
 Material Limestone County Allen
 Location SW $\frac{1}{4}$, SE $\frac{1}{4}$, SW $\frac{1}{4}$ Sec. 9 Twp. 25S Range 18E
 Owner Frances Louise Sandlin Box 232 Iola, KS 66749
 name address
 Nature of Deposit Dry Accessibility Good Site Located on Plate III
 Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of Overburden	Depth of Material	Wash							P.I.				
				1/2	3/8	4	8	16	30	50		100	200		

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Iola Limestone Fm. - Raytown Ls. Mbr.

Material Similar To _____

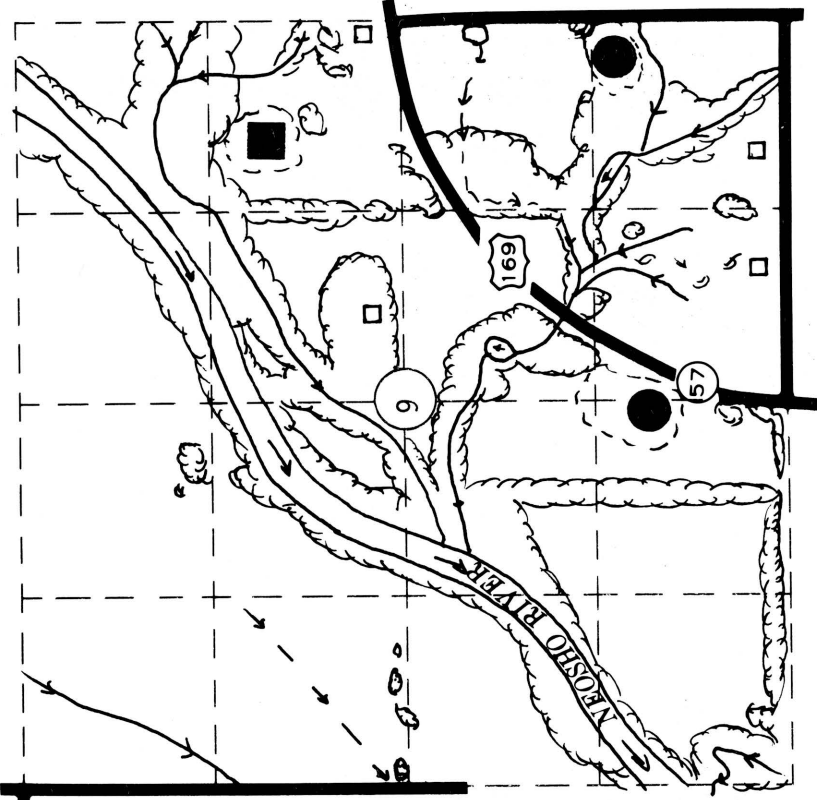
Specific Gravity (Sat.) _____ (Dry) _____

Los Angeles Wear _____

Absorption _____ Soundness _____

Wt. Cu. Ft. _____ Str. Ratio _____

Remarks Aerial Photo No. AL 14-98



Scale: 1 Inch = 1/4 Mile

MATERIAL SITE DATA FORM

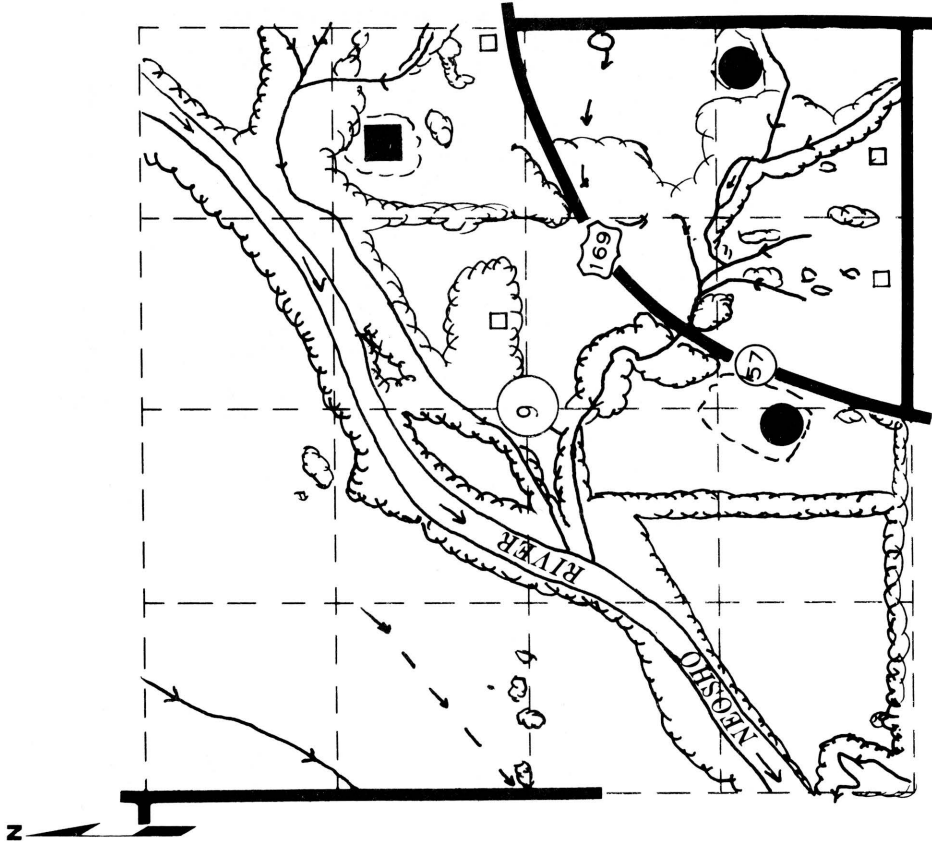
Site No. LS+33 Date November 30, 1978
Pi
 Material Limestone County Allen
 Location SE 1/4, SE 1/4 Sec. 9 Twp. 25S Range 18E
 Owner Kenneth A. & Retabess Ling Rt. 3 Iola, KS 66749
 name Dry Accessibility Good Site located on Plate III
 Nature of Deposit Open Materials Site; Not Sampled
 Status of Site _____

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Iola Limestone Fm. - Raytown Ls. Mbr.
 Material Similar To _____
 Specific Gravity (Sat) _____ (Dry) _____
 Los Angeles Wear _____ Soundness _____
 Absorption _____
 Wt. Cu. Ft. _____ Str. Ratio _____
 Remarks Aerial Photo No. AL 14-98



Scale: 1 inch = 1/4 Mile

MATERIAL SITE DATA FORM

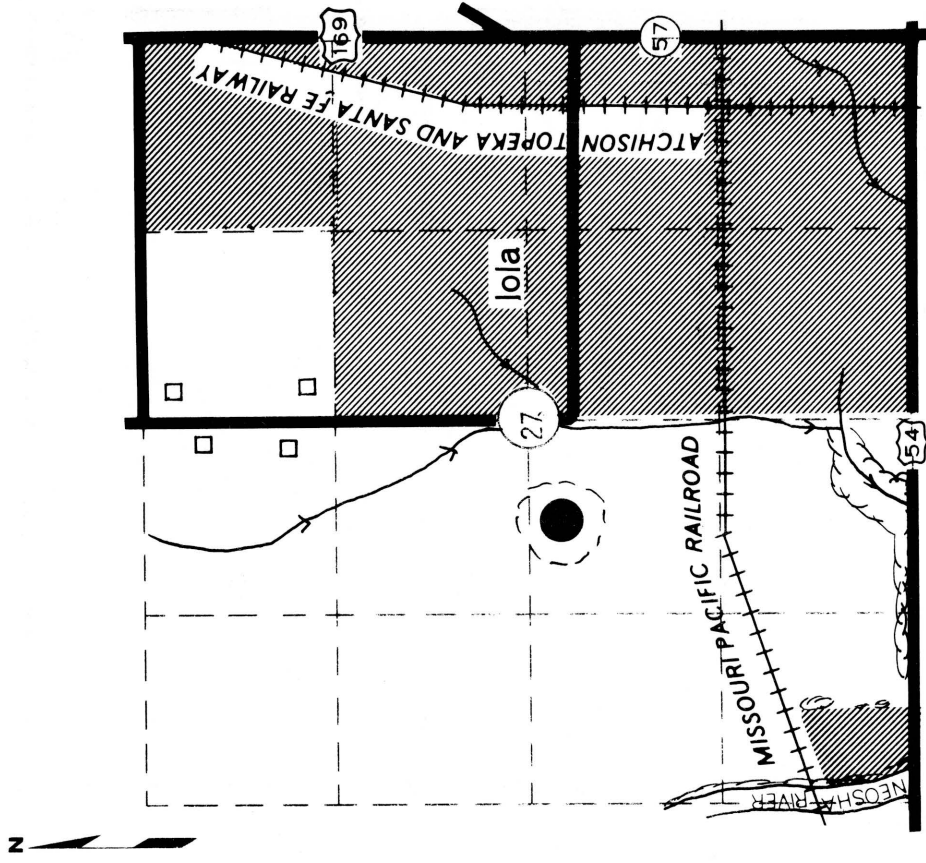
Site No. CG+34 Date November 30, 1978
Qa1
 Material Chert Gravel County Allen
 Location SW $\frac{1}{4}$ Sec. 27 Twp. 24S Range 18E
 Owner Carl C. Conger R.R. 2 Iola, KS 66749
 name Wet Accessibility Good address III
 Nature of Deposit Open Materials Site; Not Sampled Site Located on Plate
 Status of Site

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of Overburden	Depth of Material	Wash							P.I.				
				1/2	3/8	4	8	16	30	50		100	200		

CORRELATION DATA

Geological Age Quaternary
 Geological Source Quaternary Alluvium
 Material Similar To _____
 Specific Gravity (Sat) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu. Ft. _____ Str. Ratio _____
 Remarks Abandoned
Aerial Photo No. AL 14-58



Scale: 1 Inch = 1/4 Mile

MATERIAL SITE DATA FORM

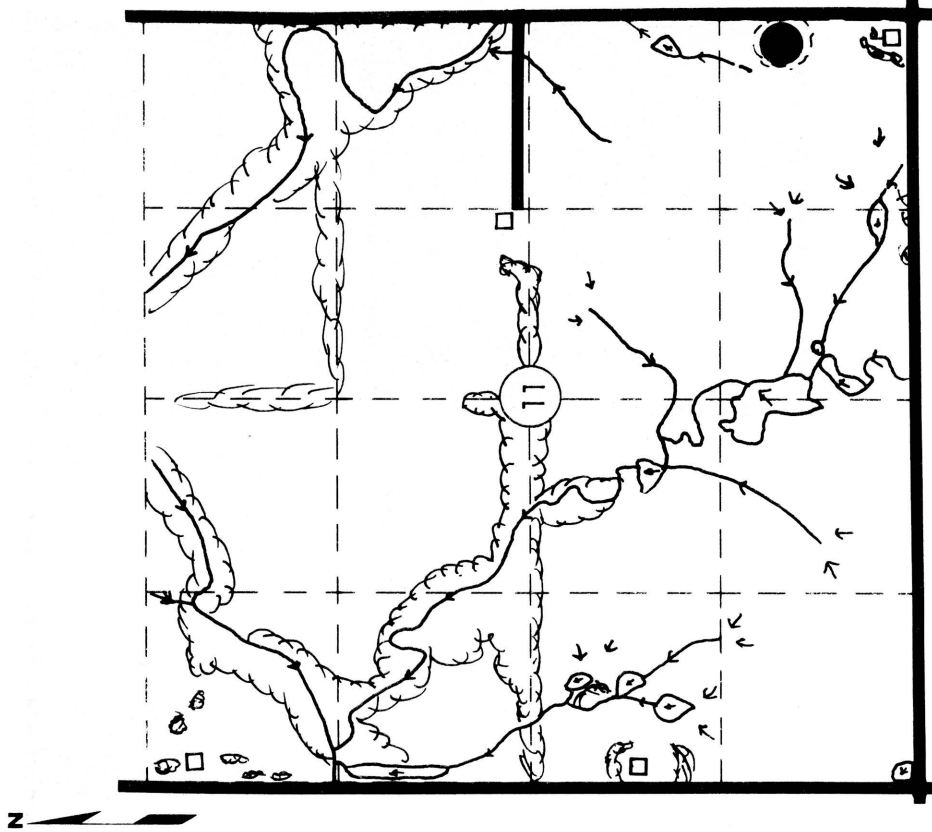
Site No. LS+35 Date November 30, 1978
Pi
 Material Limestone County Allen
 Location NE $\frac{1}{4}$, SE $\frac{1}{4}$, SE $\frac{1}{4}$ Sec. 11 Twp. 25S Range 19E
 Owner Elmer & Ruth McEndree Rt. 1 La Harpe, KS 66751
 name address
 Nature of Deposit Dry Accessibility Good Site located on Plate IV
 Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Iola Limestone Fm. - Raytown Ls. Mbr.
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu. Ft. _____ Str. Ratio _____
 Remarks Aerial Photo No. AL 14-92



Scale: 1 Inch = 1/4 Mile

MATERIAL SITE DATA FORM

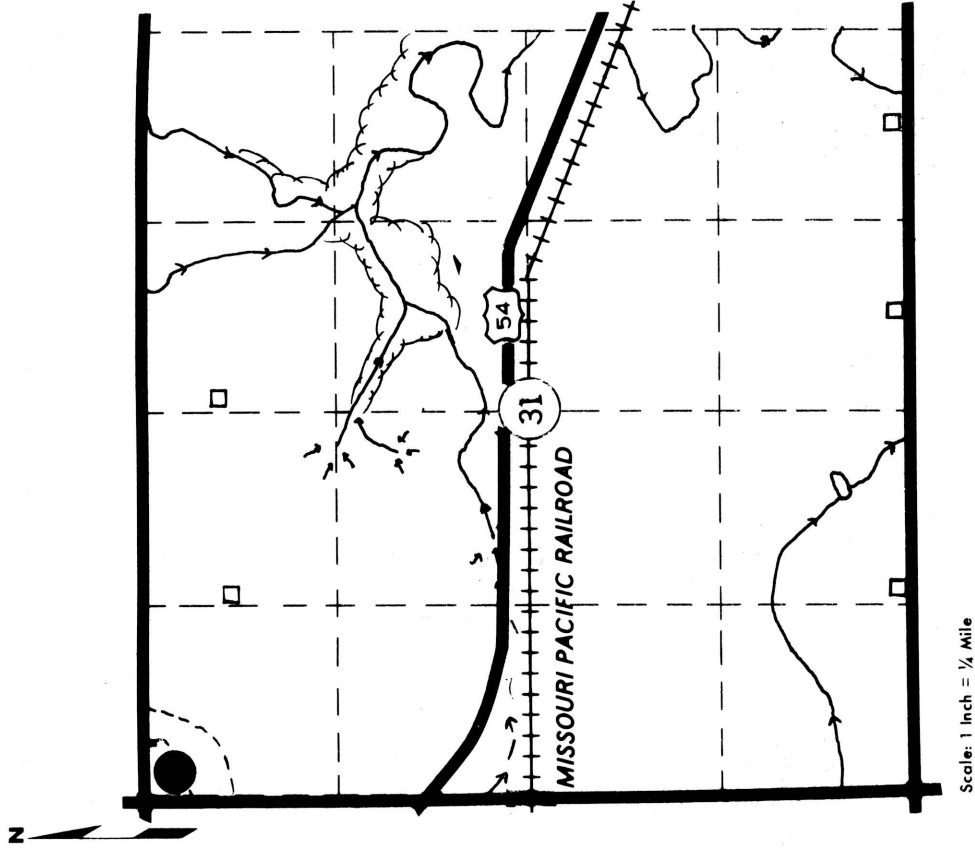
Site No. LS+36 Date November 30, 1978
Pi
 Material Limestone County Allen
 Location NW $\frac{1}{4}$, NW $\frac{1}{4}$ Sec. 31 Twp. 24S Range 21E
 Owner Fred W. Sager Rt. Moran, KS 66755
 name address
 Nature of Deposit Dry Accessibility Good Site Located on Plate IV
 Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Iola Limestone Fm. - Raytown Ls. Mbr.
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu. Ft. _____ Str. Ratio _____
 Remarks Abandoned
Aerial Photo No. AL 14-79



MATERIAL SITE DATA FORM

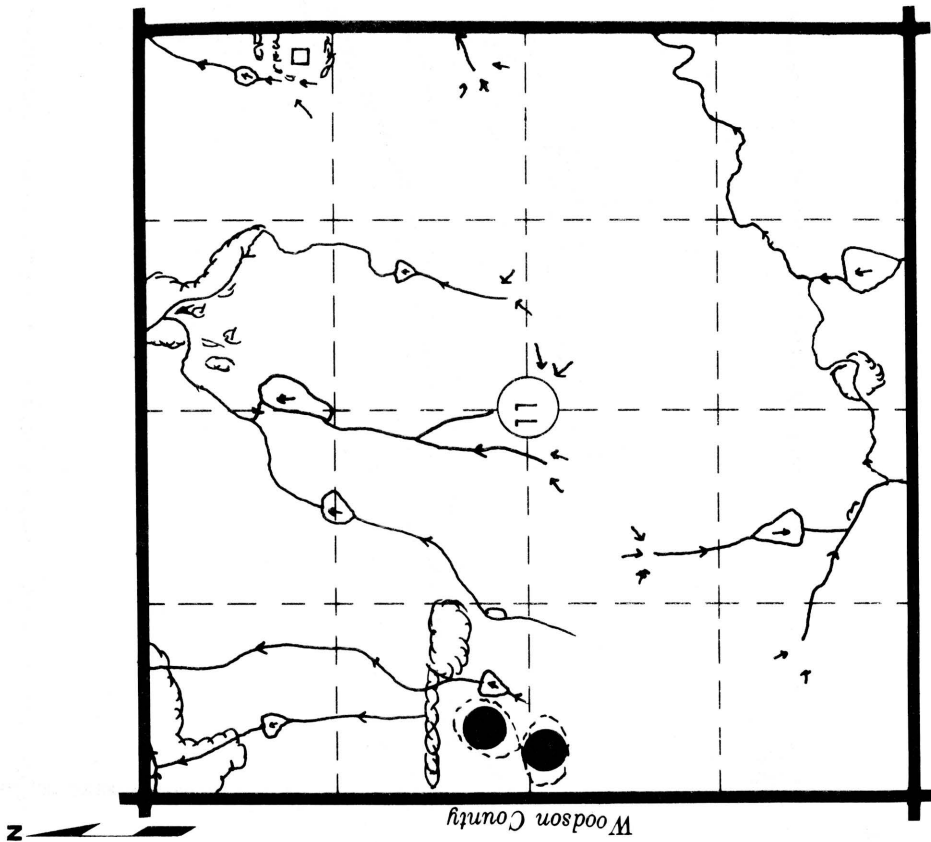
Site No. CG+37 Date November 30, 1978
Otu
 Material Chert Gravel County Allen
 Location SW $\frac{1}{4}$ Sec. 11 Twp. 26S Range 17E
 Owner Roberta M. Lesh 104 JJ Covenry Manor Lawrence, KS 66044
 Name Roberta M. Lesh address
 Nature of Deposit Dry Accessibility Good Site Located on Plate V
 Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Quaternary
 Geological Source Undifferentiated Quaternary Terrace
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry)
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu. Ft. _____ Str. Ratio _____
 Remarks Aerial Photo No. AL 14-140



MATERIAL SITE DATA FORM

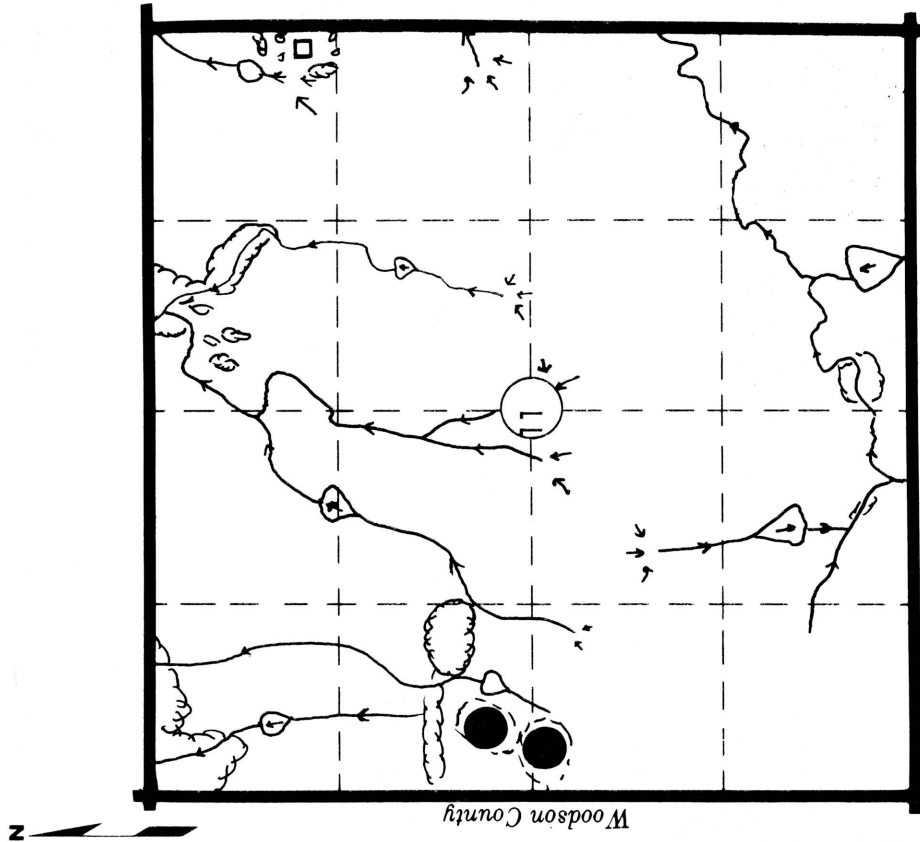
Site No. CG+38 Date November 30, 1978
Qtu
 Material Chert Gravel County Allen
 Location NW $\frac{1}{4}$ Sec. 11 Twp. 26S Range 17E
 Owner L. Lavilla Mann 1604 E. Ceader No. 202 Olathe, KS 66061
 address
 Nature of Deposit Dry Accessibility Good Site Located on Plate V
 Status of Site Open Material Site; Not Sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of Over-Burden	Depth of Material	Wash							P.I.				
				1 1/2	3/8	4	8	16	30	50		100	200		

CORRELATION DATA

Geological Age Quaternary
 Geological Source Undifferentiated Quaternary Terrace
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry)
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu. Ft. _____ Str. Ratio _____
 Remarks Aerial Photo No. AL 14-140



Scale: 1 Inch = 1/4 Mile

MATERIAL SITE DATA FORM

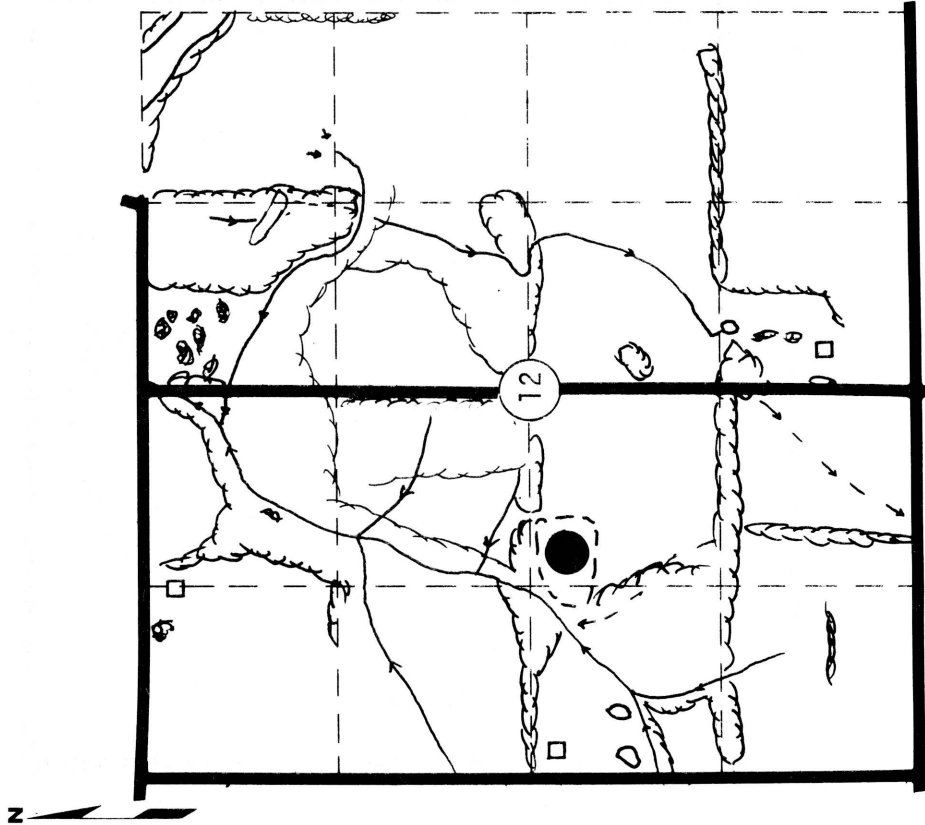
Site No. LS+39 Date November 30, 1978
Pi
 Material Limestone County Allen
 Location N $\frac{1}{2}$, SE $\frac{1}{4}$ Sec. 12 Twp. 26S Range 17E
 Owner Margaret L. & Homer A. Smith 320 S. 5th Humboldt, KS
66748
 Name Dry Accessibility Good Site located on Plate V
 Nature of Deposit Open Materials Site; Not Sampled
 Status of Site _____

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Iola Limestone Fm. - Raytown Ls. Mbr.
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu. Ft. _____ Str. Ratio _____
 Remarks Aerial Photo No. AL 14-140



MATERIAL SITE DATA FORM

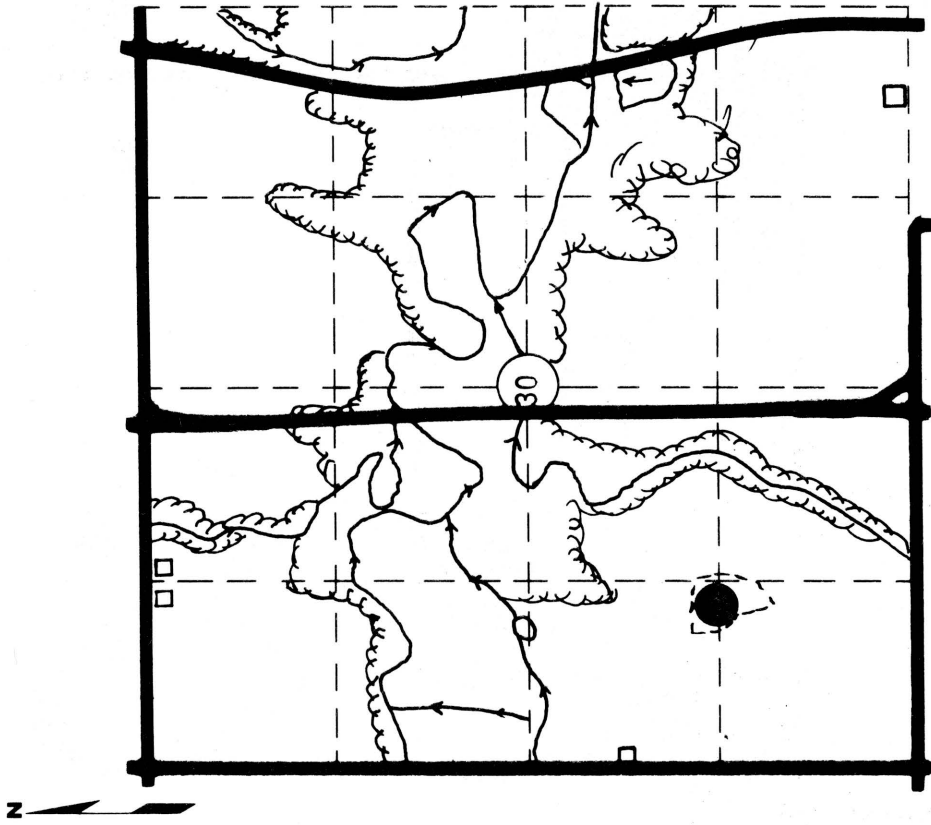
Site No. CG+40 Date November 30, 1978
0tu
 Material Chert Gravel County Allen
 Location SW $\frac{1}{4}$ Sec. 30 Twp. 26S Range 18E
 Owner Harold E. Larson Rt. 2 Box 143 Chanute, KS 66720
 name address
 Nature of Deposit Dry Accessibility Good Site Located on Plate V
 Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of Overburden	Depth of Material	Wash							P.I.				
				1 1/2	3/4	4	8	16	30	50		100	200		

CORRELATION DATA

Geological Age Quaternary
 Geological Source Undifferentiated Quaternary Terrace
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu. Ft. _____ Str. Ratio _____
 Remarks Abandoned
Aerial Photo No. AL 14-179



Scale: 1 Inch = 1/4 Mile

MATERIAL SITE DATA FORM

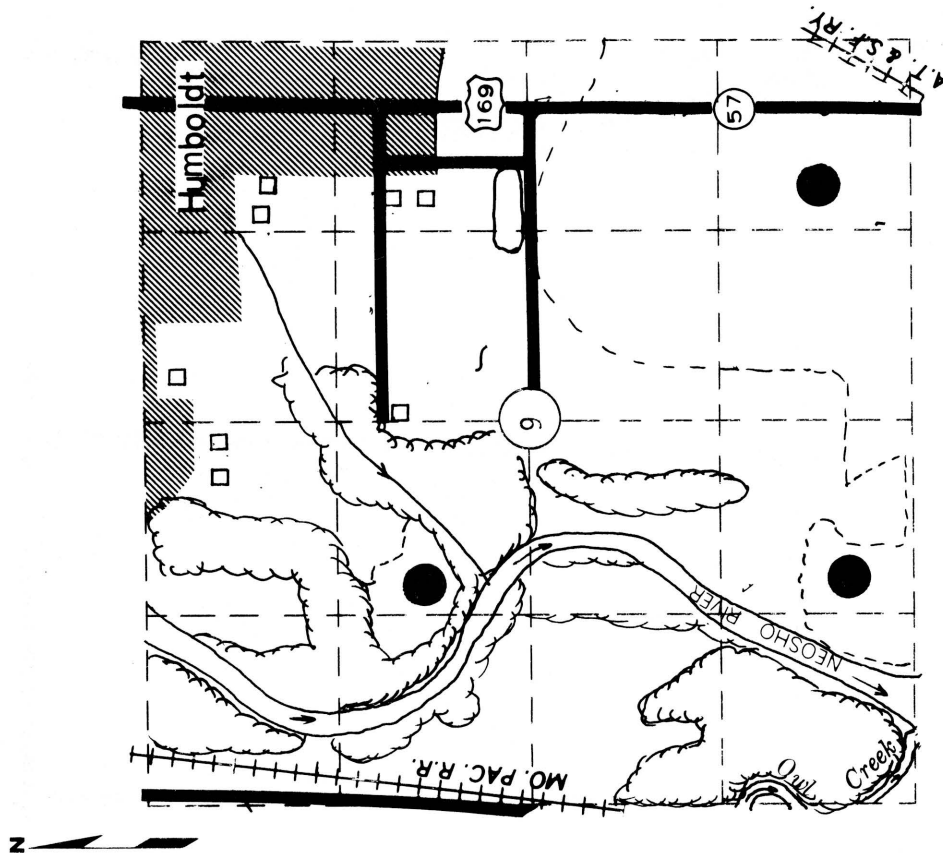
Site No. LS+41 Date November 30, 1978
PI
 Material Limestone County Allen
 Location SE 1/4, NW 1/4 Sec. 9 Twp. 26S Range 18E
 Owner Monarch Cement Co, Inc. Humboldt, KS 66748
 name address
 Nature of Deposit Dry Accessibility Good Site Located on Plate V
 Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Iola Limestone Fm. - Raytown Ls. Mbr.
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Wear _____ Soundness _____
 Absorption _____
 Wt. Cu. Ft. _____ Str. Ratio _____
 Remarks Aerial Photo No. AL 14-137



Scale: 1 inch = 1/4 Mile

MATERIAL SITE DATA FORM

Site No. LS+42 Date November 30, 1978
PI
 Material Limestone County Allen
 Location *E $\frac{1}{2}$, NW $\frac{1}{4}$, N $\frac{1}{4}$ Sec. 16 Twp. 26S Range 18E
 Owner Monarch Cement Co, Inc. Humboldt, KS 66748
 name Dry Accessibility Good Site Located on Plate V
 Nature of Deposit Open Materials Site; Not Sampled
 Status of Site

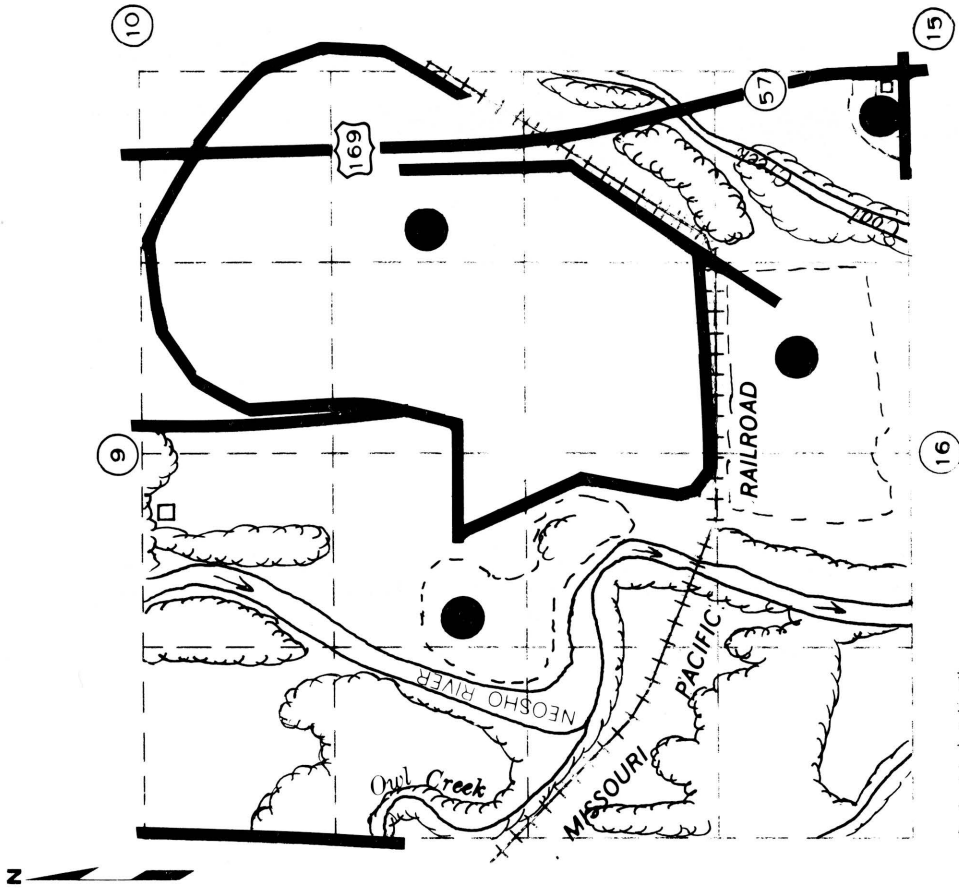
EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Iola Limestone Fm. - Raytown Ls. Mbr.
 Material Similar To _____

Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu. Ft. _____ Str. Ratio _____
 Remarks *Location E $\frac{1}{2}$, S $\frac{1}{2}$, SW $\frac{1}{4}$ Sec.9 T26S, R18E
*Location W $\frac{1}{2}$, SW $\frac{1}{4}$ Sec.10 T26S, R18E Aerial Photo No. AL 14-147



Scale: 1 inch = 1/4 Mile

MATERIAL SITE DATA FORM

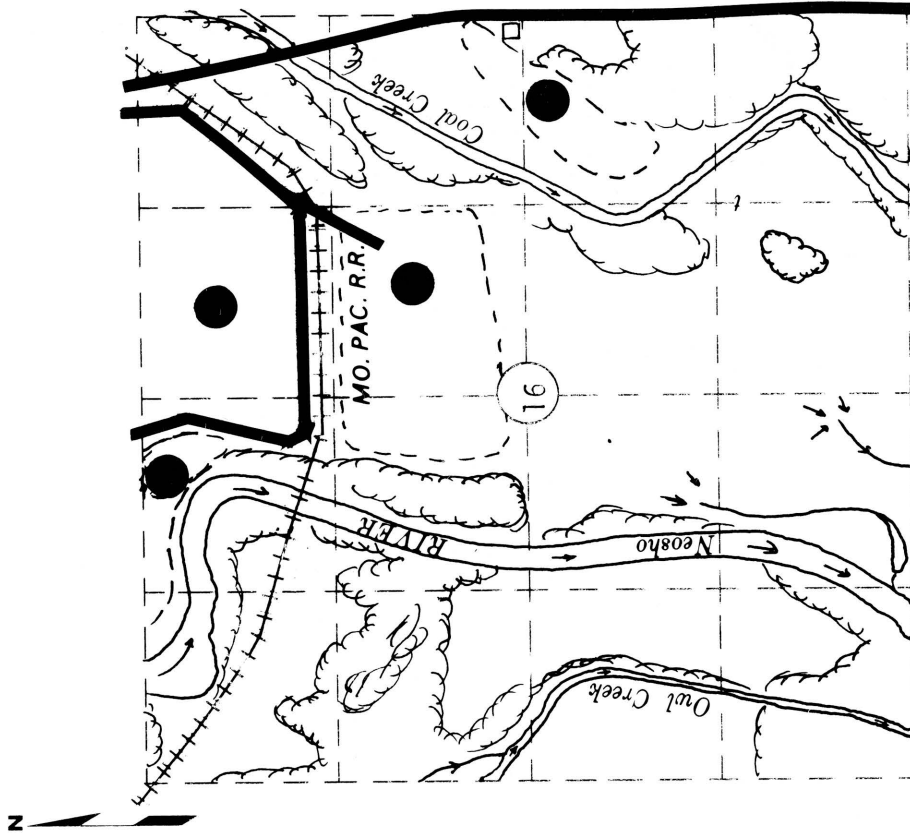
Site No. LS+43 Date November 30, 1978
PI
 Material Limestone County Allen
 Location NE $\frac{1}{4}$, SE $\frac{1}{4}$, SE $\frac{1}{4}$, NE $\frac{1}{4}$ Sec. 16 Twp. 26S Range 18E
 Owner Monarch Cement Co., Inc. Humboldt, KS 66748
 name address
 Nature of Deposit Dry Accessibility Good Site Located on Plate V
 Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Iola Limestone Fm. - Raytown Ls. Mbr.
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry)
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu. Ft. _____ Str. Ratio _____
 Remarks Aerial Photo No. AL 14-147



MATERIAL SITE DATA FORM

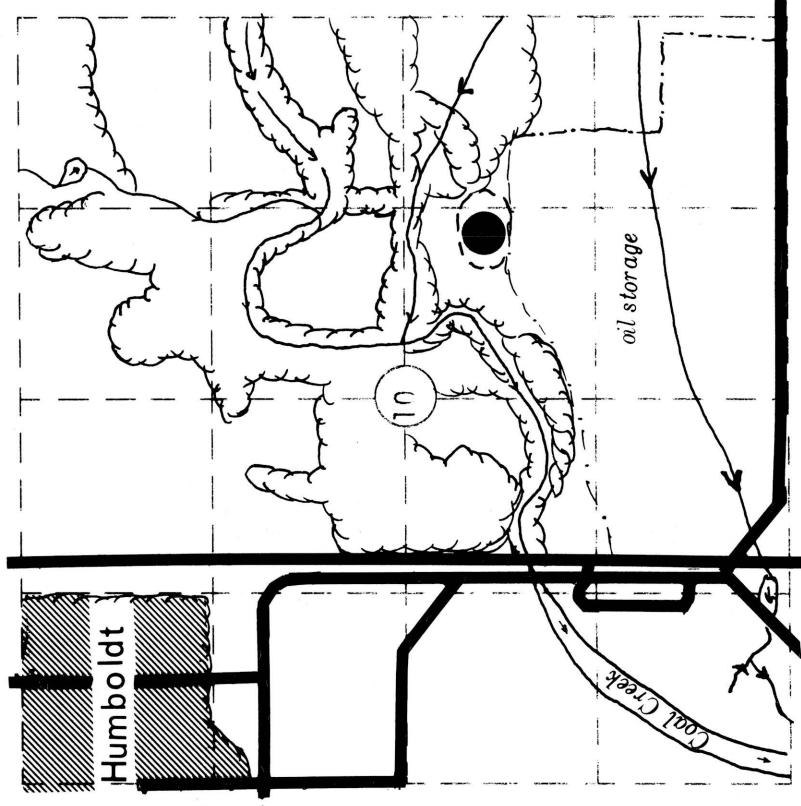
Site No. LS+44 Date November 30, 1978
PI
 Material Limestone County Allen
 Location NW 1/4, SE 1/4 Sec. 10 Twp. 26S Range 18E
 Owner Monarch Cement Co., Inc. Humboldt, KS 66748
 name Dry Accessibility Good Site Located on Plate V
 Nature of Deposit Open Materials Site; Not Sampled

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Iola Limestone F.M., Raytown Ls. Mbr.
 Material Similar To _____
 Specific Gravity (Sat) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu. Ft. _____ Str. Ratio _____
 Remarks _____



Scale: 1 in. = 1/4 Mile

Aerial Photo No. AL 14-136

MATERIAL SITE DATA FORM

Site No. LS+45 Date November 30, 1978
Pi
 Material Limestone County Allen
 Location NE 1/4, NE 1/4 Sec. 11 Twp. 26S Range 18E
Raymond Francis & Pauline Ann Riebel Rt. 1 Humboldt, KS
 Owner name Dry Accessibility Good address 66748 Site Located on Plate V
 Nature of Deposit Open Materials Site; Not Sampled
 Status of Site _____

EXPLORATION DATA

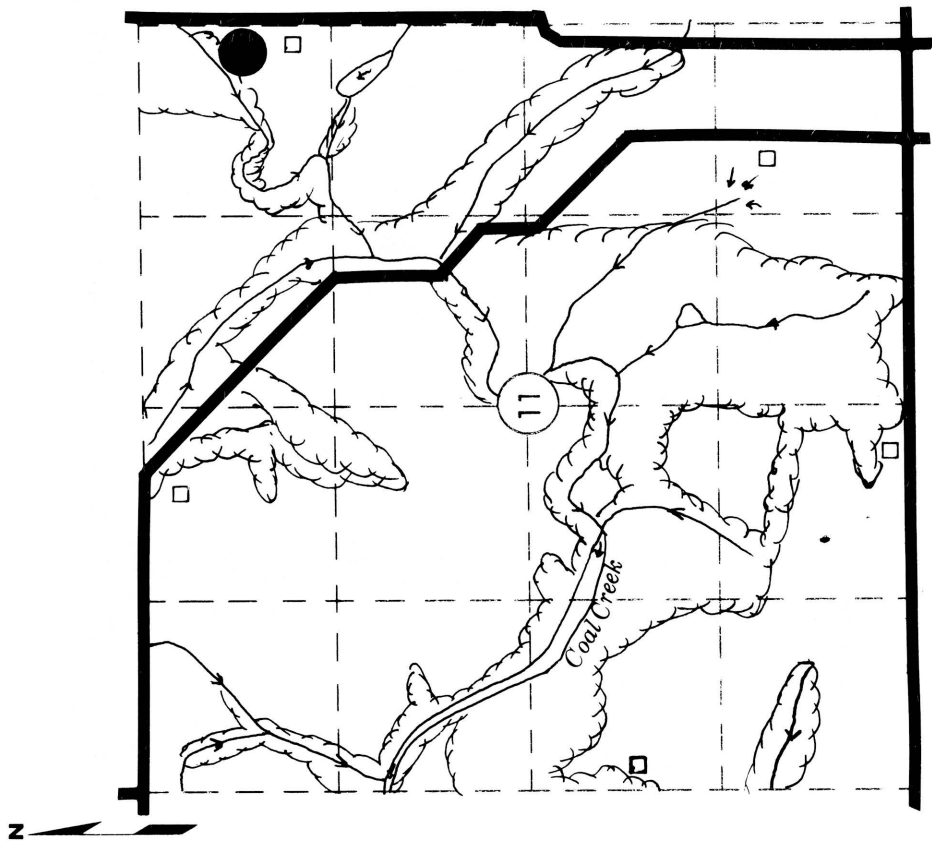
Test Hole	Material at Bottom of Hole	Depth of Core Burden	Depth of Material	Wash						P.I.										
				1/2	3/8	4	8	16	30		50	100	200	G.F.	L.L.					

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Iola Limestone Fm. - Raytown Ls. Mbr.
 Material Similar To _____

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

Remarks _____
Aerial Photo No. AL 14-136



Scale: 1 inch = 1/4 Mile

MATERIAL SITE DATA FORM

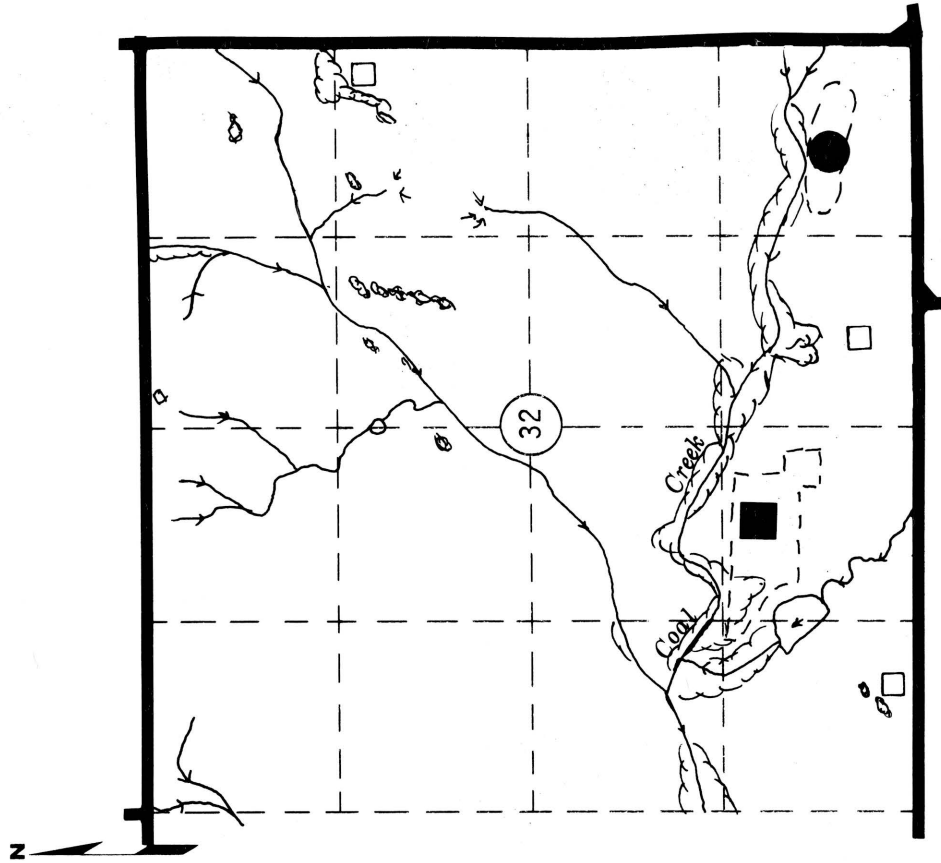
Site No. LS+46 Date November 30, 1978
PI
 Material Limestone County Allen
 Location SE $\frac{1}{4}$, SE $\frac{1}{4}$ Sec. 32 Twp. 25S Range 19E
 Owner Andrew H. & Mary R. Setter R.2 Humboldt, KS 66748
 name address
 Nature of Deposit Dry Accessibility Good Site Located on Plate V
 Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of Overburden	Depth of Material	Wash						G.F.	L.L.	P.I.			
				1/2	3/4	1	2	3	4				5	6	200

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Iola Limestone Fm. - Raytown Ls. Mbr.
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Co. Ft. _____ Str. Ratio _____
 Remarks Aerial Photo No. AL 14-111



MATERIAL SITE DATA FORM

Site No. LS+47
pd
 Date November 30, 1978
 Material Limestone
 County Allen
 Location NW $\frac{1}{4}$, NW $\frac{1}{4}$, Sec. 29 Twp. 26S Range 20E
 Owner Harold Whitaker R.R.2 Elsmore, KS 66732
 name address
 Nature of Deposit Dry Accessibility Good Site Located on Plate VI
 Status of Site Open Materials Site; Not Sampled

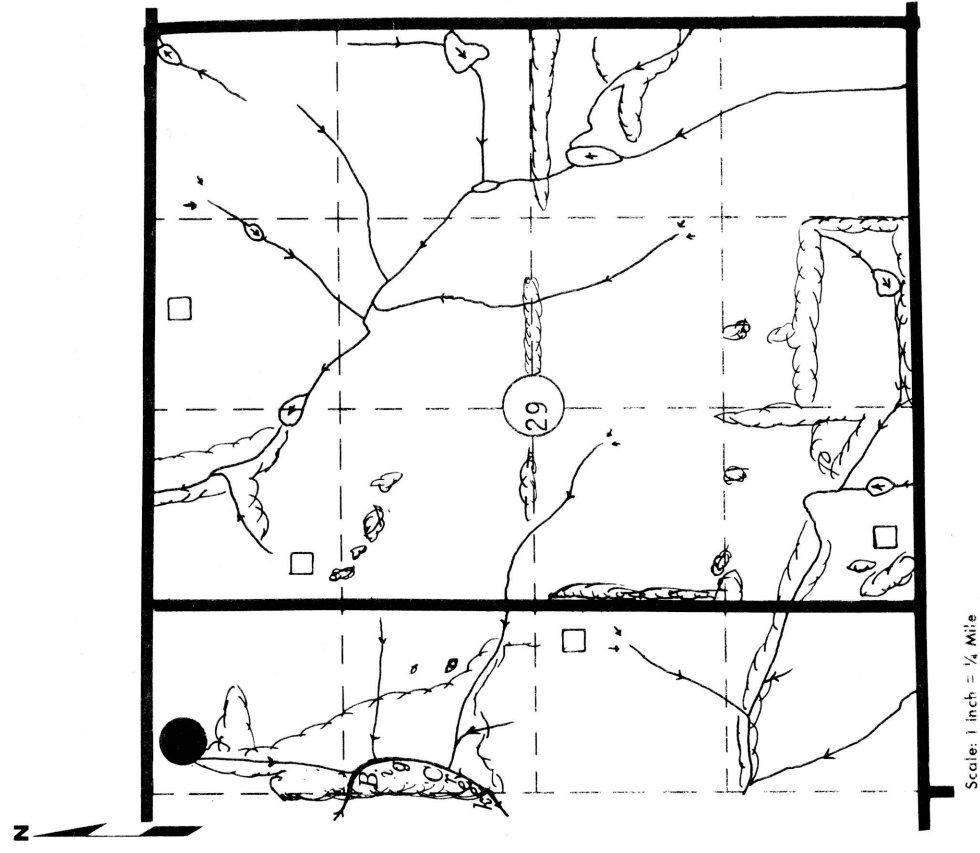
EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Dennis Limestone Fm. - Winterset Ls. Mbr.
 Material Similar To _____

Specific Gravity (Sat) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu. Ft. _____ Str. Ratio _____
 Remarks Abandoned
Aerial Photo No. AL 14-170



MATERIAL SITE DATA FORM

Site No. LS+48 Date November 30, 1978
PD
 Material Limestone County Allen
 Location SE 1/4, NW 1/4 Sec. 16 Twp. 26S Range 20E
 Owner Gerald E. & Lavance Johnson R.R. 1 Elsmore, KS 66732
 name address
 Nature of Deposit Dry Accessibility Good Site Located on Plate VI
 Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

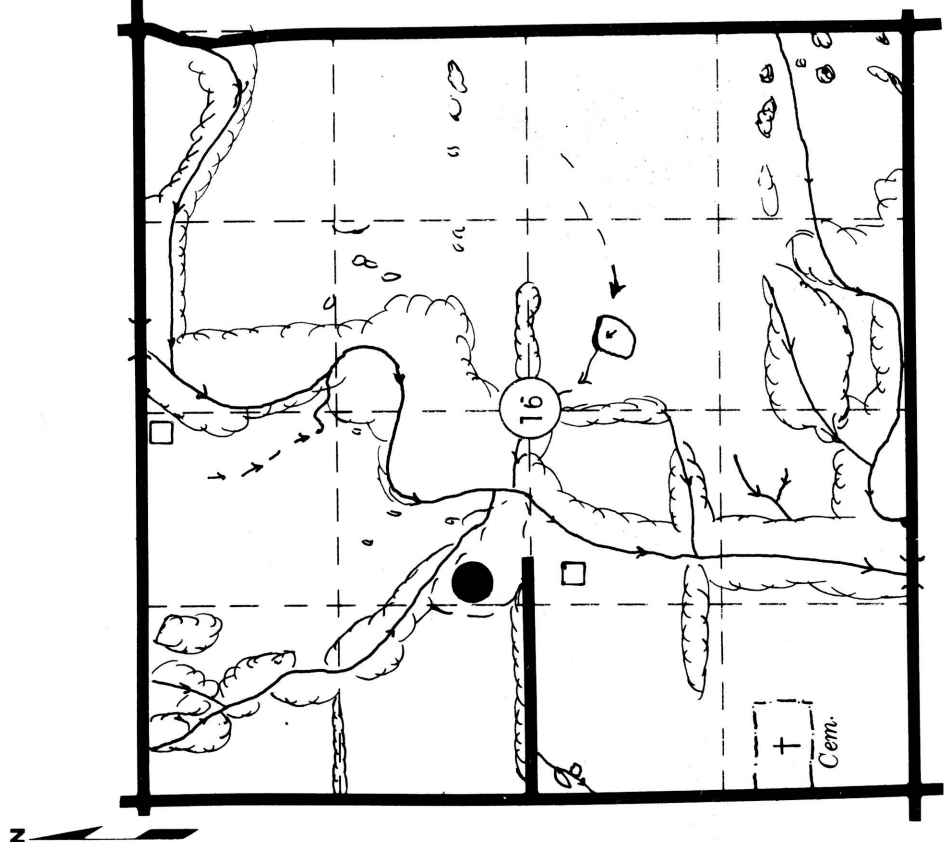
Test Hole	Material at Bottom of Hole	Depth of Core Burden	Depth of Material	Wash					G.F.	L.L.	P.I.										
				1 1/2	3/4	4	8	16				30	50	100	200						

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Dennis Limestone Fm. - Winterset Ls. Mbr.
 Material Similar To _____

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

Aerial Photo No. AL 14-156



MATERIAL SITE DATA FORM

Site No. LS+49 Date November 30, 1978
RD
 Material Limestone County Allen
 Location SW $\frac{1}{4}$, SW $\frac{1}{4}$ Sec. 33 Twp. 25S Range 21E
 Owner Caroline Ashby Colwell R.R. 1 Moran, KS 66755
 name Dry Accessibility Good Site Located on Plate VI
 Nature of Deposit Open Materials Site; Not Sampled
 Status of Site _____

EXPLORATION DATA

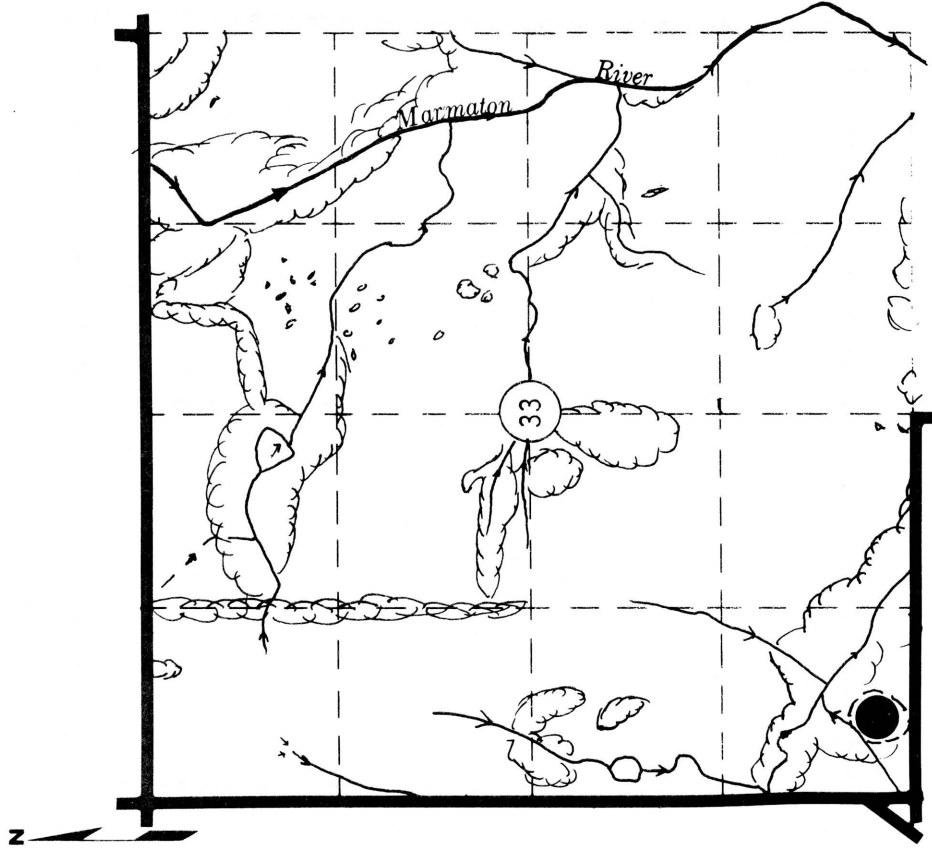
Test Hole	Material at Bottom of Hole	Depth of Over-Burden	Depth of Material	Wash							G.F.	L.L.	P.I.				
				1/2	3/8	4	8	16	30	50				100	200		

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Dennis Ls. Fm. - Winterset Ls. Mbr.
 Material Similar To _____

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

Aerial Photo No. AL 14-121



Scale: 1 inch = 1/4 Mile

PROSPECTIVE MATERIALS SITES ; NOT SAMPLED

LEGEND

- ===== Trail or lane
- Road
- +++++ Railroad
- ~~~~~ Hedge or trees
- ~~~~~
Name Major streams
- ~~~~~ Intermittent streams
- ~~~~~ Pond or lake

- Open materials sites; sampled
- Open materials sites; not sampled
- ▼ Prospective materials sites; sampled
- ◆ Prospective materials sites; not sampled
- ⑤ Center of section
- Dwelling
- ⊕ Cemetery
- 🏫 School
- 🏰 Church
- ▩ Town or city

MATERIAL SITE DATA FORM

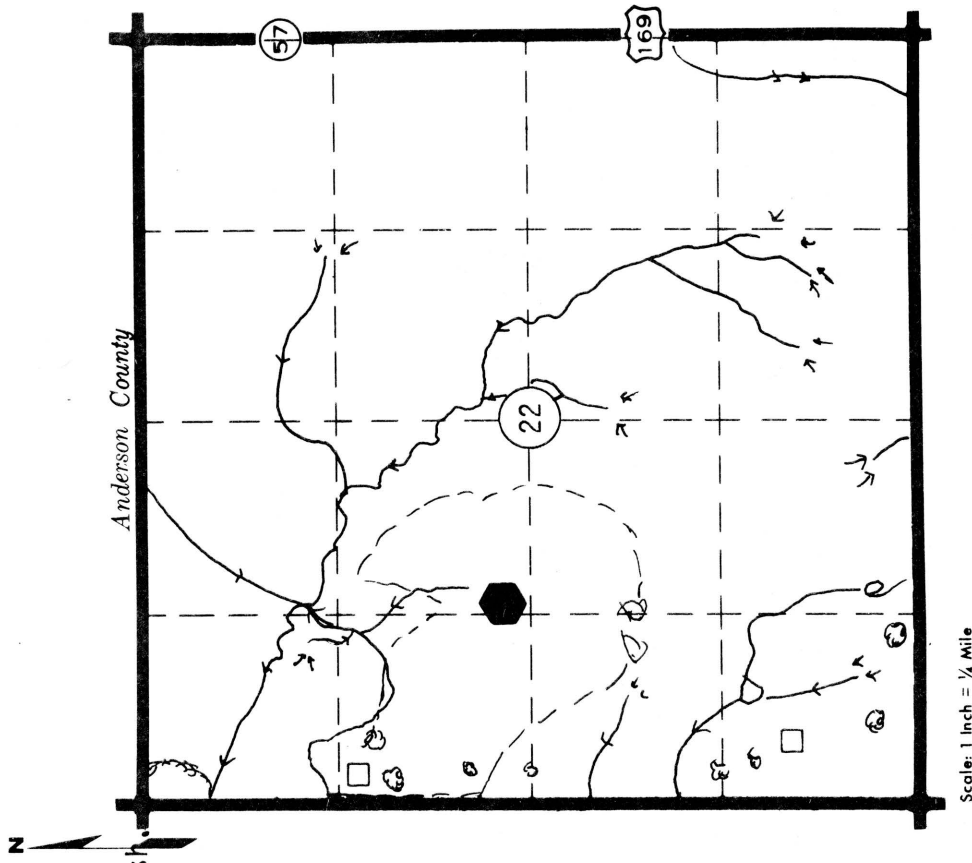
Site No. CG+50 Date November 30, 1978
Qtu
 Material Chert Gravel County Allen
 Location S $\frac{1}{2}$, NW $\frac{1}{4}$ & N $\frac{1}{2}$, SW $\frac{1}{4}$ Sec. 22 Twp. 23 Range 18
 Owner Phillip E. Monfort P.O. Box 567 216 W. St., Waitsburg, Wash.
 name Dry address 99361
 Nature of Deposit Dry Accessibility Good Site Located on Plate I
 Status of Site Prospective Materials Site; Not Sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of Overburden	Depth of Material	Wash							P.I.				
				1/2	3/8	4	8	16	30	50		100	200		

CORRELATION DATA

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



Scale: 1 Inch = 1/4 Mile

MATERIAL SITE DATA FORM

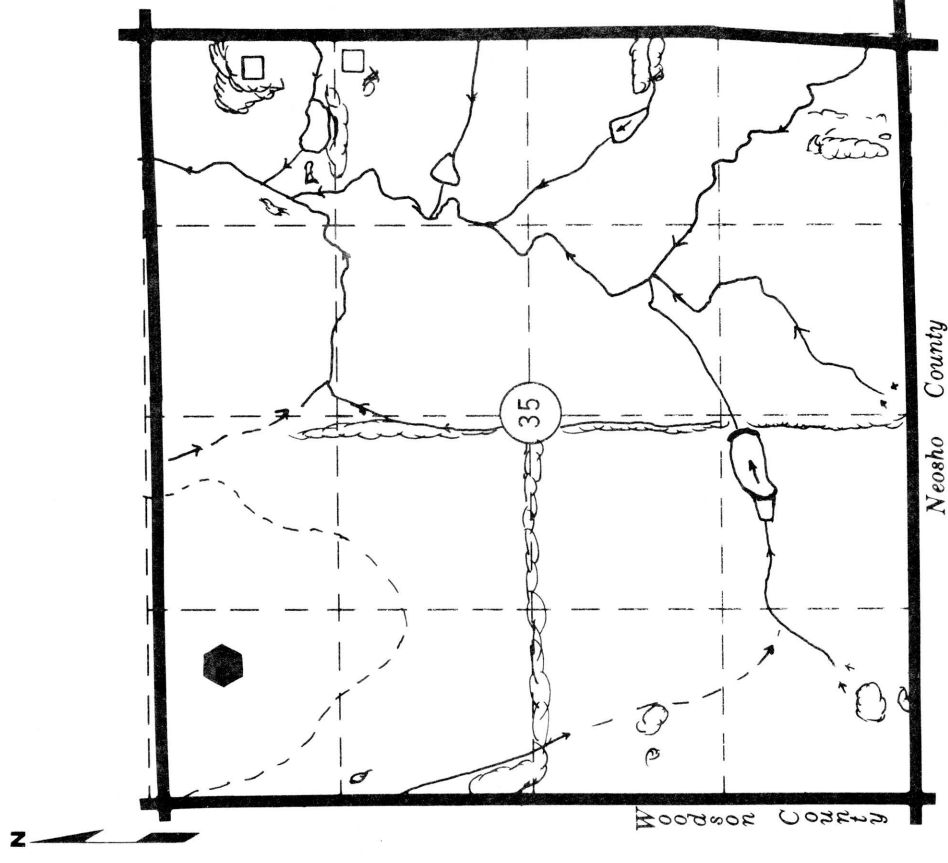
Site No. CG+51 Date November 30, 1978
Qtu
 Material Chert Gravel County Allen
 Location NW¹/₄, NW¹/₄ Sec. 35 Twp. 26 Range 17
Willard Carlson R.R.2 Chanute, KS 66720
 Owner name Willard Carlson address
 Nature of Deposit Dry Accessibility Good Site Located on Plate V
 Status of Site Prospective Materials Site; Not Sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of Over-Burden	Depth of Material	Wash						P.L.					
				1/2	3/8	4	8	16	30		50	100	200		

CORRELATION DATA

Geological Age Quaternary
 Geological Source Undifferentiated Quaternary Terrace
 Material Similar To _____
 Specific Gravity (Sat) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu. Ft. _____ Str. Ratio _____
 Remarks Aerial Photo No. AL 14-180



MATERIAL SITE DATA FORM

Site No. CG+52 Date November 30, 1978
Qtu
 Material Chert Gravel County Allen
 Location SE 1/4, NW 1/4 Sec. 36 Twp. 26 Range 17
Edward F. Offenbacher 903 S. Lincoln Chanute, KS
 Owner name Dry Accessibility Good Site Located on Plate V
 Nature of Deposit Prospective Materials Site; Not Sampled

Status of Site _____

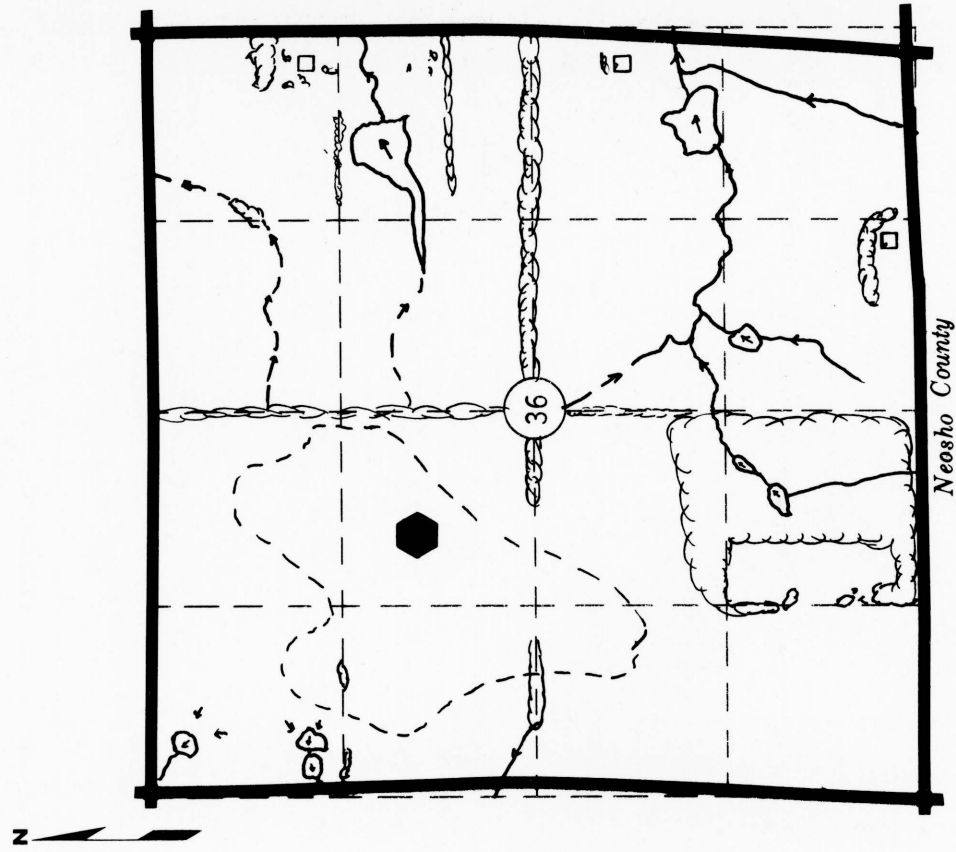
EXPLORATION DATA

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

CORRELATION DATA

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

Aerial Photo No. AL 14-180



Scale: 1 Inch = 1/4 Mile

GLOSSARY

A.A.S.H.O.: American Association of State Highway Officials.

A.A.S.H.T.O.: American Association of State Highway and Transportation Officials.

Absorption: Determined by tests performed in accordance with A.A.S.H.O. designation T85.

Aggregate: Any of several hard, inert, construction materials (such as sand, gravel, shells, slag, crushed stone, or other mineral material), or combinations thereof, used by mixing of various-sized fragments with a cementing or bituminous material to form concrete or bituminous mix.

Alluvium: A deposit of clay, silt, sand, or gravel deposited by a stream or other body of running water.

Aquifer: A body of rock that includes sufficient saturated permeable material to conduct ground water and to yield economically significant quantities of ground water to wells and springs.

Bedded: A characteristic of some rock units which shows distinct layers due to the manner in which they were deposited.

Chat: Crushed gangue remaining after the extraction of lead and zinc materials.

Chert: A dull, flint-like siliceous rock.

Construction aggregate: Processed rock that will meet standard specifications for concrete and bituminous construction.

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

Cross bedding: Term applied to sedimentary deposits whose bedding is inclined at various angles to the stratification.

Dolomitic limestone: A limestone in which the mineral dolomite ($\text{CaMg}(\text{CO}_3)_2$) is conspicuous but calcite is more abundant.

Exposure patterns: Topographic features formed on the land surface by the exposure of geologic units.

Fine sand: An aggregate of consolidated minerals or rock particles, the dimensions of which are less than 0.05 of a millimeter and not more than 0.42 of a millimeter. The term refers to size of grain and not to composition; however, since most sands are composed of quartz and feldspar, and the term is used without qualifications, a siliceous composition is implied.

Formation: A persistent body of rocks, having easily recognizable upper and lower boundaries that can be traced in the field without recourse to detailed paleontologic or petrologic analysis, and large enough to be represented on a geologic map as a practical or convenient unit for mapping and description.

Fossil: Any remains, trace, or imprint of a plant or animal that has been preserved, by natural processes, in the Earth's crust since some past geologic time.

Geologic Era: Largest unit of geologic time (e.g. Paleozoic, Mesozoic and Cenozoic).

Geologic process: Term pertaining to erosion, deposition, and diastrophic methods by which the Earth's surface has been shaped.

Geologic system: A term that refers to rocks or deposits that were laid down during a particular geologic period (e.g. the Pennsylvanian, Permian, and Quaternary).

Geologic unit: A general term used to denote a geologic formation, member, or unconsolidated deposit.

Gradation factor: The value obtained by adding the percentages of material retained on the 1½", ¾", ⅜", 4, 8, 16, 30, 50 and 100 sieves, respectively and dividing the sum by 100.

Grading A, B, C, and D: Determined by the abrasive charge for the Los Angeles wear test as specified in A.A.S.H.O. designation T96 and section 1001 of the State Highway Commission of Kansas, Standard Specifications, 1973 edition.

Ground-water: That part of the subsurface water that is the zone of saturation, including underground streams.

Hiatus: A break or interruption in the continuity of the geologic record.

Igneous rocks: Rocks produced from molten or partly molten material.

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

Liquid limit: The water-content boundary between the semiliquid and the plastic states of sediment. Determined by tests performed in accordance with the Kansas Test Method KT-10 of the State Highway Commission of Kansas Construction Manual, Part V, 1969 edition.

Lithology: Physical properties of rocks such as grain size, mineral content, and color.

Los Angeles wear: Determined by tests performed in accordance with A.A.S.H.O. designation T96 as modified by section 1001 of the State Highway Commission of Kansas Standard Specifications, 1973 edition.

Marine deposits: Deposits laid down in a sea.

Material source bed: A geologic unit from which construction material is being or can be produced.

Member: A division of a formation, generally of distinct lithologic character or of only local extent.

Oolitic limestone: A textural term for rock containing small, rounded grains that resemble fish eggs.

Open materials site: A pit or quarry from which material is produced for possible construction purposes.

Physiographic division: A division of the state, based on general geologic and(or) geographic features.

Plasticity index: The water-content range of a soil at which it is plastic; determined by tests performed in accordance with the Kansas Test Method KT-10 of the State Highway Commission of Kansas Construction Manual, Part V, 1969 edition.

Pleistocene Series: Deposits laid down during the Pleistocene Epoch.

Prospective materials site: A location where the geologic conditions are favorable for finding and producing construction aggregate.

Residual soil: In place soil material resulting from the decomposition of rock.

Soundness: Determined by tests performed in accordance with section 1001 of the State Highway Commission of Kansas Standard Specifications, 1973 edition.

Specific gravity: Determined by tests performed in accordance with A.A.S.H.O. designation T84 for fine aggregate and T85 for coarse aggregate.

Stereogram: A stereoscopic pair of photographs correctly oriented and mounted for viewing with a stereoscope.

Stratigraphic position: The vertical position of a geologic unit in relation to other geologic units.

Stream meander: One of a series of beds or curves in the course of a stream caused by lateral movement of a stream in its valley.

Strength ratio: Determined by tests performed in accordance with A.A.S.H.O. designation T19.

Unconsolidated deposits: A sediment that is loosely arranged or unstratified, or whose particles are not cemented together, occurring either at the surface or at depth.

Vadose: Water above the permanent groundwater level.

Wash: (Material passing the No. 200 sieve). Determined by tests performed in accordance with A.A.S.H.O. designation T11.

Weathering: The disintegration (physical change) or decomposition (chemical change) of rock by atmospheric agents.

Weight per cubic foot: Determined by tests performed in accordance with A.A.S.H.O. designation T19.

Selected References

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CONSTRUCTION MATERIALS INVENTORY SERIES

1.	Ellis County, Kansas	1963	A. H. Stallard
2.	Coffey County, Kansas	1966	A. H. Stallard
3.	Mitchell County, Kansas	1965	G. Hargadine
4.	Sumner County, Kansas	1964	G. Hargadine
5.	Linn County, Kansas	1966	G. Hargadine
6.	Sherman County, Kansas	1964	G. Hargadine
7.	Marshall County, Kansas	1965	G. Hargadine
8.	Brown County, Kansas	1966	A. H. Stallard & G. Fenity
9.	McPherson County, Kansas	1969	G. Hargadine
10.	Harvey County, Kansas	1966	G. Hargadine
11.	Osage County, Kansas	1966	A. H. Stallard
12.	Kingman County, Kansas	1966	G. Hargadine
13.	Pratt County, Kansas	1969	G. Hargadine
14.	Morton County, Kansas	1971	G. Hargadine
15.	Seward County, Kansas	1970	G. Hargadine
16.	Stevens County, Kansas	1970	G. Hargadine
17.	Rawlins County, Kansas	1968	A. H. Stallard
18.	Franklin County, Kansas	1969	A. H. Stallard
19.	Nemaha County, Kansas	1970	G. D. Hargadin
20.	Jefferson County, Kansas	1971	A. H. Stallard
21.	Butler County, Kansas	1967	G. D. Hargadin
22.	Doniphan County, Kansas	1974	G. E. Petersen
23.	Bourbon County, Kansas	1976	L. D. Myers
24.	Johnson County, Kansas	1970	G. E. Hilmes
25.	Douglas County, Kansas	1972	J. Jimenez
26.	Shawnee County, Kansas	1974	G. E. Petersen
27.	Miami County, Kansas	1975	G. E. Petersen & L. D. Myers
28.	Crawford County, Kansas	1975	G. E. Petersen
29.	Republic County, Kansas	1976	G. E. Petersen
30.	Cloud County, Kansas	1978	L. D. Myers
31.	Ottawa County, Kansas	1977	G. E. Petersen
32.	Cowley County, Kansas	1978	G. E. Petersen
33.	Neosho County, Kansas	1978	G. E. Petersen
*34.	Allen County, Kansas	1979	G. E. Petersen
35.	Riley County, Kansas	1978	P. C. Clark
**36.	Greenwood County, Kansas	--	

* This Report

** In Progress