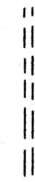


OPEN MATERIALS SITES; SAMPLED

LEGEND

Trail or lane



Road



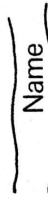
Railroad



Hedge or trees



Major streams



Intermittent streams



Pond or lake



Open materials sites; sampled



Open materials sites; not sampled



Center of section



Dwelling



Cemetery



School



Church



Town or city



MATERIAL SITE DATA FORM

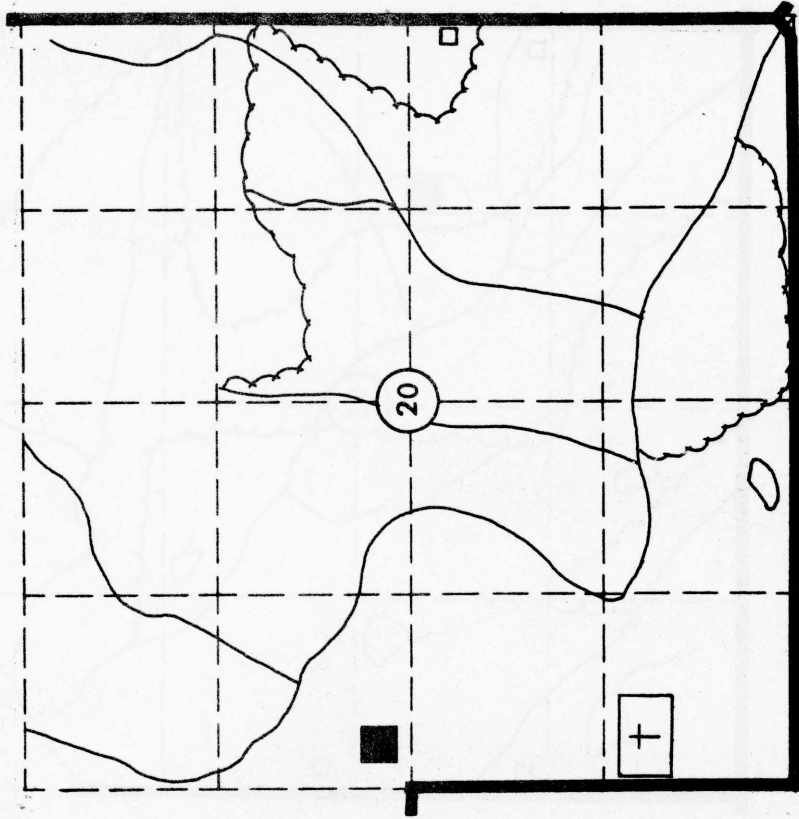
Site No. LS+1 Date November, 1974
PS
 Material Limestone County Bourbon
 Location NW 1/4 Sec. 20 Twp. 23S Range 22E
 Owner William G. Rhodes, Rt. 1, Bartlett, Kansas 67332
 Nature of Deposit Dry Accessibility Good Site Located on Plate I
 Status of Site Open Materials Site; Sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of over-Burden	Depth of Material	Percent Retained							Wash 200	S.F.	L.L.	P.I.		
				1 1/2	3/4	3/8	1/4	3/16	1/8	3/32					1/32	

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Swope Limestone Formation - Bethany Falls L.S. Mbr.
 Material Similar To SHC Lab No. 65-4729
 Specific Gravity (Sat.) 2.62 (Dry) 2.58
 Los Angeles Wear 29.5(B)
 Absorption 1.54 Soundness 0.98
 Mt. Cu.Ft. Str. Ratio
 Remarks Materials Department Site No. 6-20



Scale: 1" = 1/4 mile

MATERIAL SITE DATA FORM

Site No. Ls+2
PS Date November, 1974
 Material Limestone County Bourbon
 Location NE 1/4 Sec. 25 Twp. 23S Range 22E
 Owner John D. Hays, Mapleton, Kansas address
 Nature of Deposit Dry Accessibility Good Site Located on Plate I
 Status of Site Open Materials Site; Sampled

EXPLORATION DATA

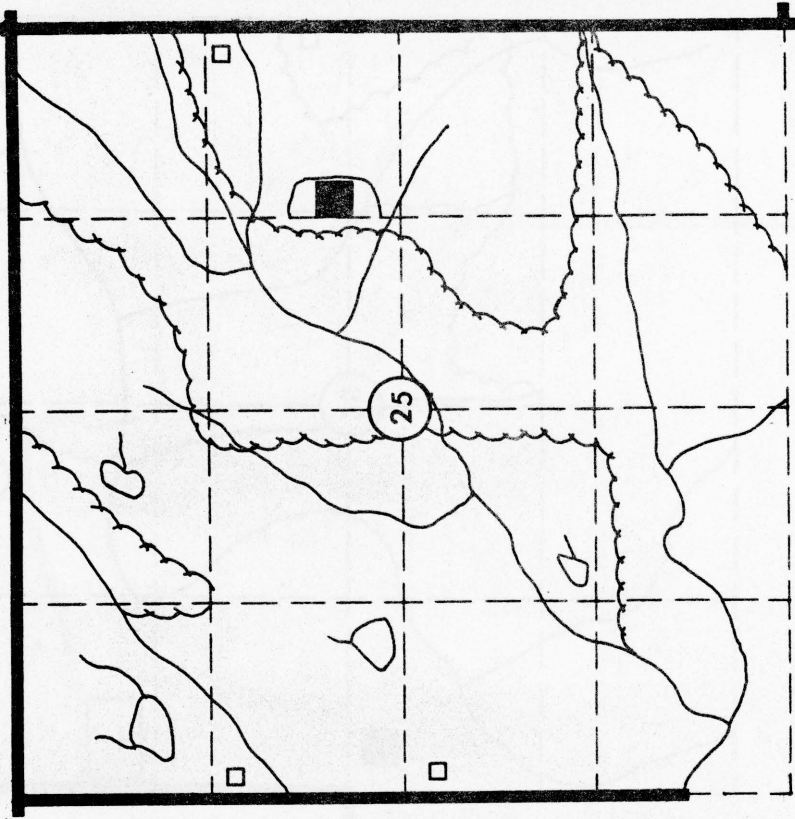
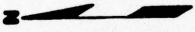
Test Hole	Material at Bottom of Hole	Depth of over-burden	Depth of Material	Percent Retained							Wash 200	G.F.	L.L.	P.I.			
				1/2	3/4	3/8	5/8	16	30	50					100		

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Swope Limestone Formation - Bethany Falls Ls. Mbr.
 Material Similar To SHC Lab No. 23591

Specific Gravity (Sat.) 2.57 (Dry) 2.51
 Los Angeles Wear 29.8(B)
 Absorption 2.20 Soundness 0.98

Mt. Cu.Ft. Str. Ratio
 Remarks Materials Department Site No. 6-17



Scale: 1" = 1/4 mile

MATERIAL SITE DATA FORM

Site No. Ls+3 Pt Date November, 1974
 Material Limestone County Bourbon
 Location SW 1/4 Sec. 36 Twp. 23S Range 22E
 Owner Frank C. Hays, Mapleton, Kansas address _____
 Nature of Deposit Dry Accessibility Good Site located on Plate I
 Status of Site Open Materials Site; Sampled

EXPLORATION DATA

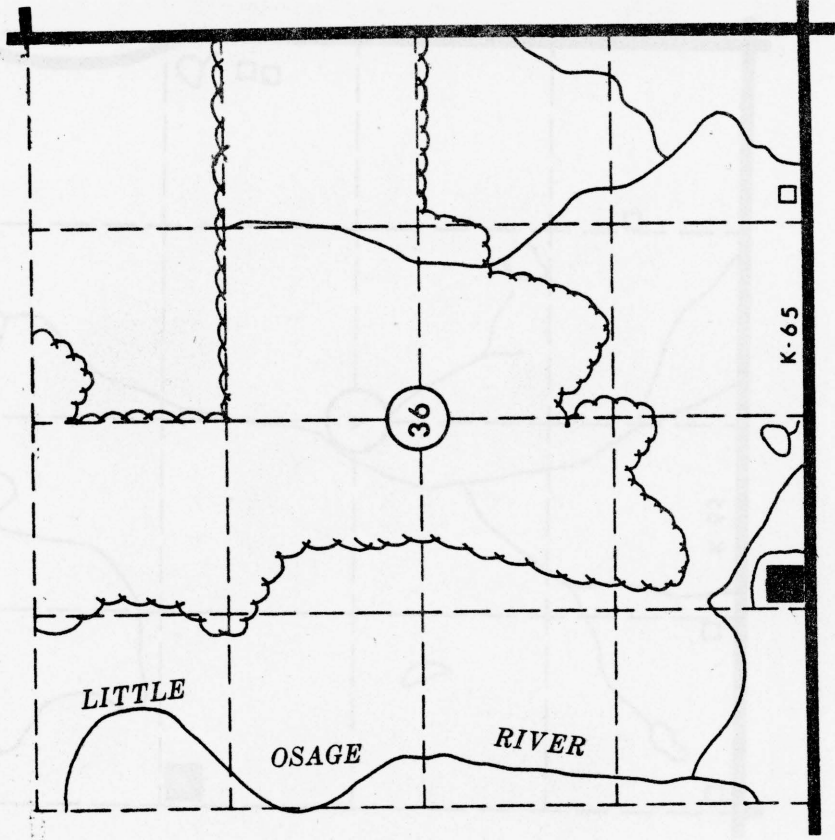
Test Hole	Material at Bottom of Hole	Depth of over-burden	Depth of Material	Percent Retained								Wash 200	G.F.	L.L.	P.I.	
				1 1/2	3/4	3/8	4	8	16	30	50					100

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Tacket Formation, Bourbon Flag Zone
 Material Similar To SHC Lab. No. 20374

Specific Gravity (Sat.) 2.61 (Dry) 2.56
 Los Angeles Wear 27.5(B)
 Absorption 1.72 Soundness 0.98

Wt. Cu.Ft. Str. Ratio
 Remarks Materials Department Site No. 6-14



Scale: 1" = 1/4 mile

MATERIAL SITE DATA FORM

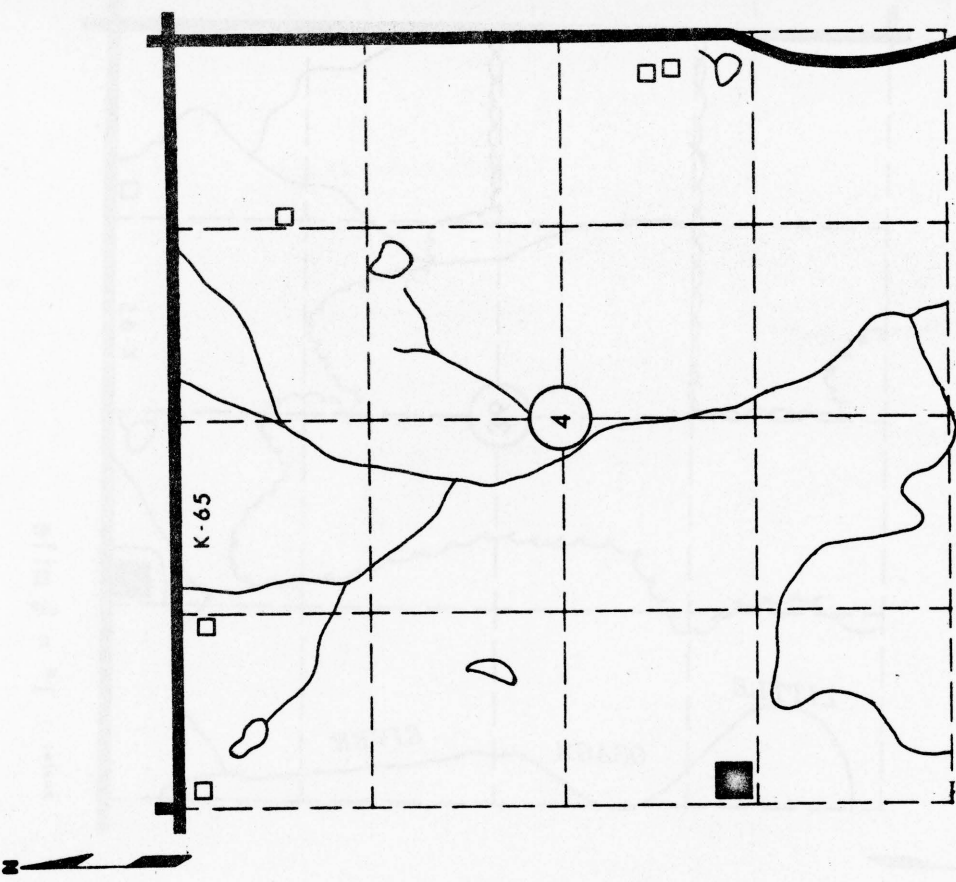
Site No. Ls+4 Date November, 1974
PS
 Material Limestone County Bourbon
 Location SW 1/4 Sec. 4 Twp. 24S Range 22E
 Owner Nelson Motors, Inc., LaHarpe, Kansas address
 Nature of Deposit Dry Accessibility Fair Site Located on Plate I
 Status of Site Open Materials Site; Sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of over-burden	Depth of Material	Percent Retained							Wash 200	G.F.	L.L.	P.I.		
				1/2	3/4	3/8	5/8	16	30	50					100	

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Swope Limestone Formation - Bethany Falls Ls. Mbr.
 Material Similar To SHC Lab. No. 66-173
 Specific Gravity (Sat.) 2.59 (Dry) 2.54
 Los Angeles Wear 30.2(B)
 Absorption 1.84 Soundness 0.98
 Wt. Cu.Ft. Str. Ratio
 Remarks Materials Department Site No. 6-16



MATERIAL SITE DATA FORM

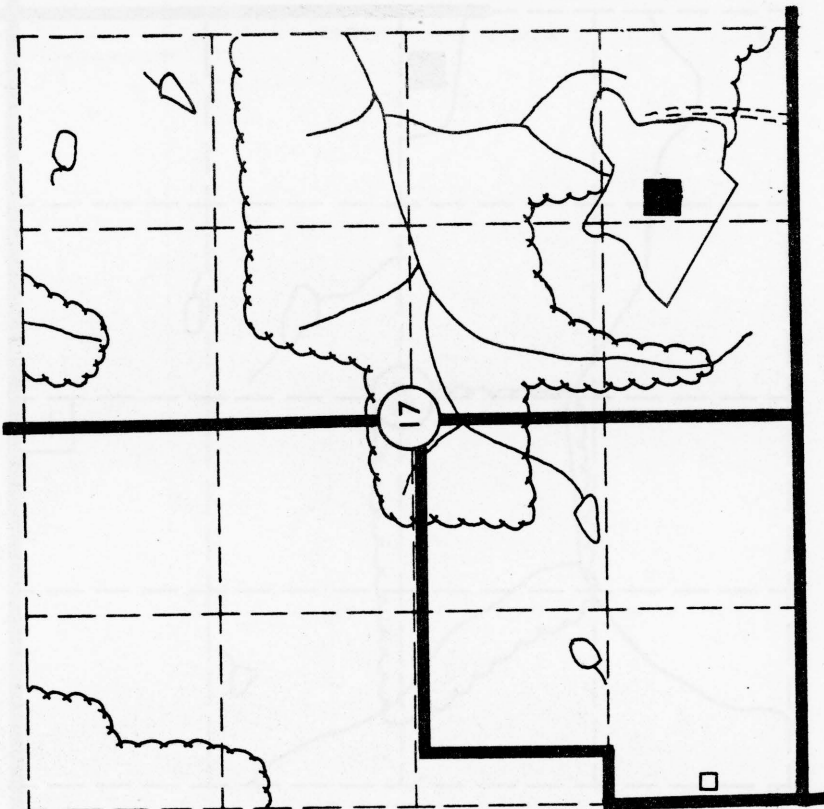
Site No. LS+5 Date November, 1974
PS County Bourbon
 Material Limestone Sec. 17 Twp. 24S Range 23E
 Location SE 1/4 Owner Louise Homelnsdorf, Mapleton, Kansas
 Name Louise Homelnsdorf, Mapleton, Kansas address
 Nature of Deposit Dry Accessibility Good Site Located on Plate I
 Status of Site Open Materials Site; Sampled

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Swope Limestone Formation-Bethany Falls Limestone Mbr.
 Material Similar to SHC Lab. No. 21211
 Specific Gravity (sat.) 2.54 (dry) 2.48
 Los Angeles Near 33.0
 Absorption 2.50 Soundness 0.99
 Mt. Co. ft. Str. Ratio
 Remarks Materials Department Site No. 6-13



MATERIAL SITE DATA FORM

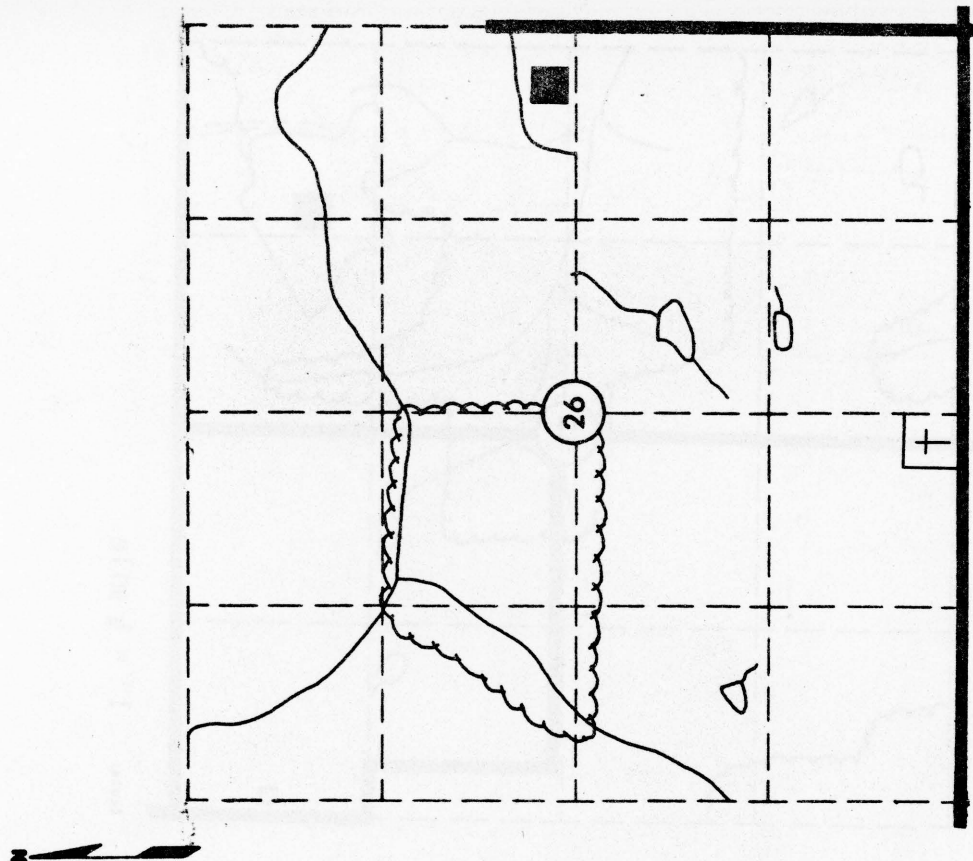
Site No. Ls+6 Date November, 1974
pp County Bourbon
 Material Limestone
 Location NE 1/4 Sec. 26 Twp. 23S Range 24E
 Owner Merlin Messer, Fulton, Kansas address
 Nature of Deposit Dry Accessibility Good Site Located on Plate II
 Status of Site Open Materials Site; Sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of over-burden	Depth of Material	Percent Retained							Wash 200	G. F.	L. L.	P. I.			
				1/2	3/4	3/8	5/8	16	30	50					100		

CORRELATION DATA

Geological Age Pennsylvanian
 Geological source Pawnee Limestone Formation-Myrick Station Ls. Mbr.
 Material similar to SHC Lab. No. 38418
 Specific Gravity (sat.) 2.57 (dry) 2.53
 Los Angeles Wear 24.2(B)
 Absorption 1.77 Soundness 0.97
 Wt. Cu.Ft. Str. Ratio
 Remarks Materials Department Site No. 6-18



Scale: 1" = 1/4 mile

MATERIAL SITE DATA FORM

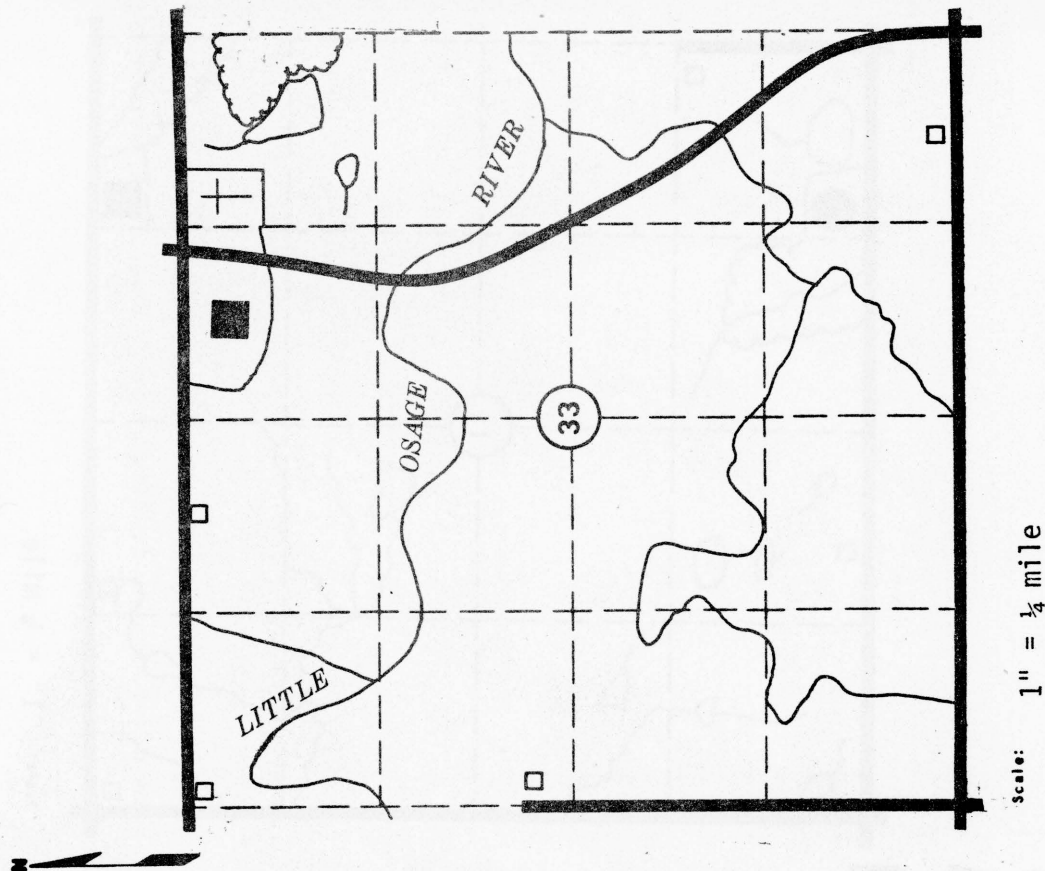
Site No. LS+7 Date November, 1974
Pf
 Material Limestone County Bourbon
 Location NE 1/4 Sec. 33 Twp. 23S Range 25E
 Owner Harold Morrell, Rt. 2, Fulton, Kansas
 Nature of Deposit Dry accessibility Good address II
 Status of Site Open Materials Site; Sampled Site Located on Plate

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				

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Fort Scott Limestone Formation-Higginsville Ls. Mbr.
 Material Similar To SHC Lab. No. 6763
 Specific Gravity (sat.) 2.63 (dry) 2.59
 Los Angeles Wear 25.4(B)
 Absorption 1.64 Soundness 0.96
 Wt. Cu.Ft. Str. Ratio
 Remarks Materials Department Site No. 6=12



MATERIAL SITE DATA FORM

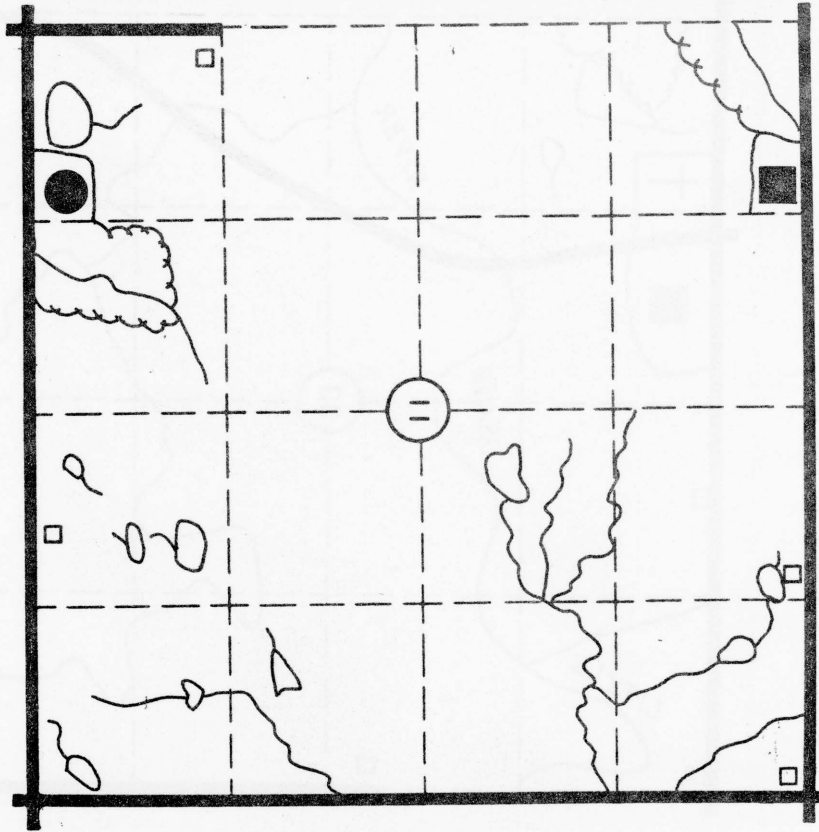
Site No. Ls+8 Date November, 1974
PF
 Material Limestone County Bourbon
 Location SE 1/4 Sec. 11 Twp. 24S Range 25E
 Wallace Malone, Rt. 2, Ft. Scott, Kansas
 Owner Wallace Malone address
 Nature of Deposit Dry Accessibility Good Site located on Plate II
 Status of Site Open Materials Site; Sampled

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Fort Scott Limestone-Higginsville Ls. Mbr.
 Material Similar to SHC Lab. No. 68-2712
 Specific Gravity (Sat.) 2.62 (dry) 2.57
27.7(B)
 Los Angeles Wear 1.68 Soundness 0.95
 Absorption Str. Ratio
 Wt. Cu.Ft.
 Remarks Materials Department Site No. 6-21



Scale: 1" = 1/4 mile

MATERIAL SITE DATA FORM

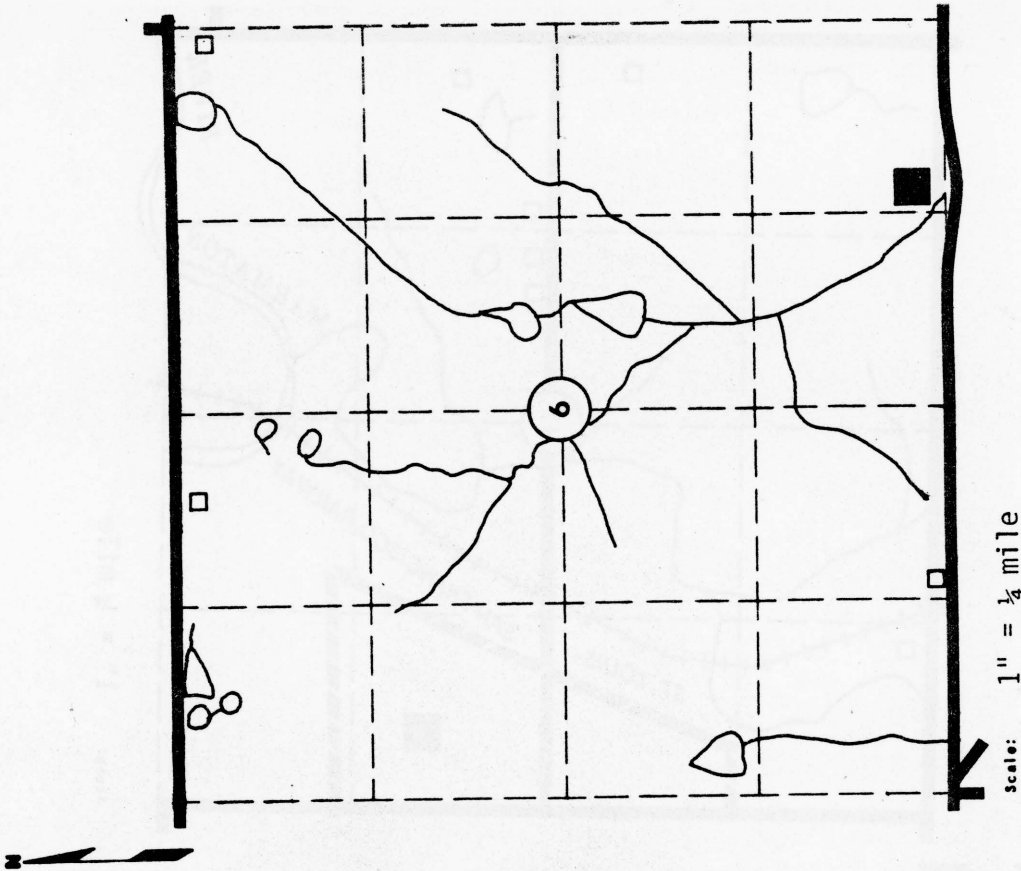
Site No. LS+9 Date November, 1974
PD
 Material Limestone County Bourbon
 Location SE 1/4 Sec. 6 Twp. 25S Range 22E
 Owner Ed. L. Ramsey, Bronson, Kansas address _____
 Nature of Deposit Dry Accessibility Good Site Located on Plate III
 Status of Site Open Materials Site; Sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of over-burden	Depth of Material	Percent Retained						Wash 200	G.F.	L.L.	P.I.		
				1/2	3/4	5/8	3/16	1/8	16					30	50

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Dennis Limestone Formation-Winterset Ls. Mbr.
 Material Similar To SHC Lab. No. 73-1842
 Specific Gravity (sat.) 2.52 - 2.58 (dry) 2.45 - 2.53
34(B)
 Los Angeles Wear 3.06 - 2.04 Soundness 0.99
 Absorption _____
 Mt. Cu.Ft. _____ Str. Ratio _____
 Remarks Materials Department Site No. 6-22



MATERIAL SITE DATA FORM

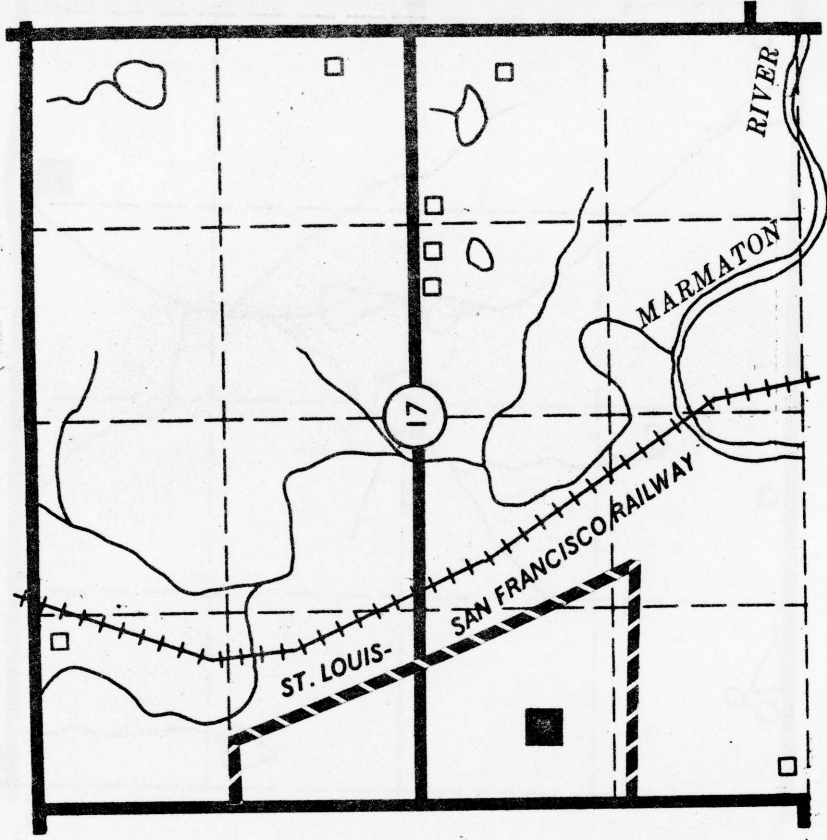
Site No. Ls+10 Date November, 1974
Pf
 Material Limestone County Bourbon
 Location SW 1/4 Sec. 17 Twp. 25S Range 25E
Grandview Bank, Grandview, Mo.
 Owner name address
 Nature of Deposit Dry accessibility Good Site located on Plate IV
 Status of Site Open Materials Site; Sampled

EXPLORATION DATA

Test Hole 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	5/8	16	30	50				

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Fort Scott Ls. Fm. - Higginsville Ls. Mbr.
 Material Similar To SHC Lab No. 69-538
 Specific Gravity (Sat.) 2.65 (Dry) 2.61
 Los Angeles Wear 23.5(B)
 Absorption 1.58 Soundness 0.98
 Wt. Cu.Ft. Str. Ratio
 Remarks Materials Department Site No. 6-1



Scale: 1" = 1/4 mile

MATERIAL SITE DATA FORM

Site No. Ls+11 Date November, 1974
RP
 Material Limestone County Bourbon
 Location NW 1/4 Sec. 2 Twp. 26S Range 25E
 Owner Victor A. Johnson, 1426 Marwell, Ames, Iowa 50010
name address
 Nature of Deposit Dry Accessibility Good Site Located on Plate IV
 Status of Site Open Materials Site; Sampled

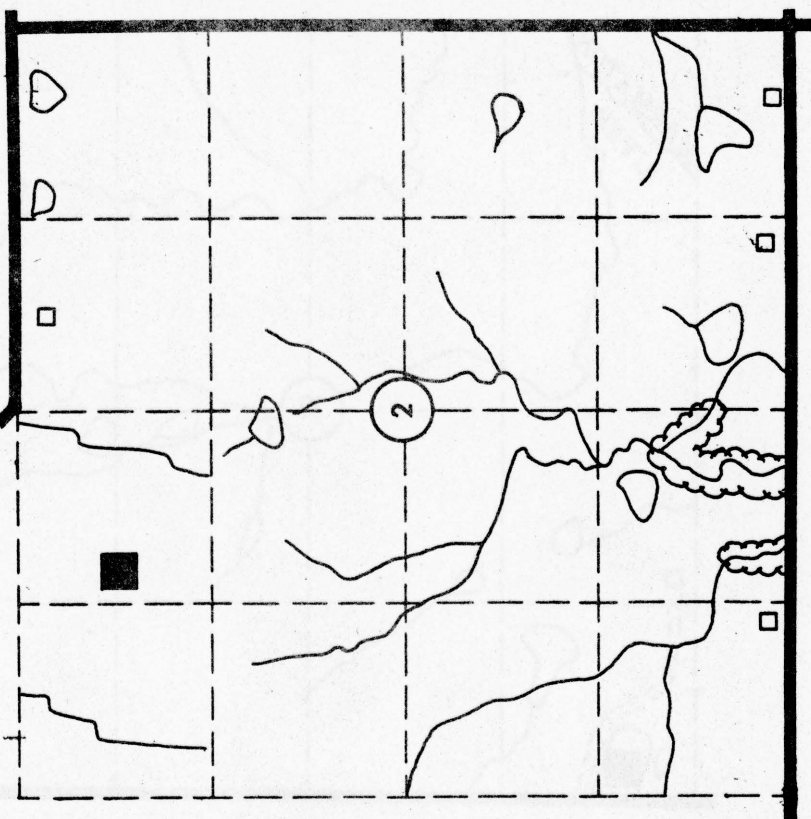
EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of over-burden	Depth of Material	Percent Retained					Moisture	L.L.	P.I.									
				1/2	3/4	3/8	4	8				16	30	50	100	200				

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Pawnee Limestone Formation-Myrick Station Ls. Mbr.
 Material Similar To SHC Lab. No. 74-142

Specific Gravity (sat.) 2.63 (dry) 2.59
25(B)
 Los Angeles Wear 1.5 Soundness 0.99
 Absorption Shr. Ratio
 Remarks Materials Department Site No. 6-8



MATERIAL SITE DATA FORM

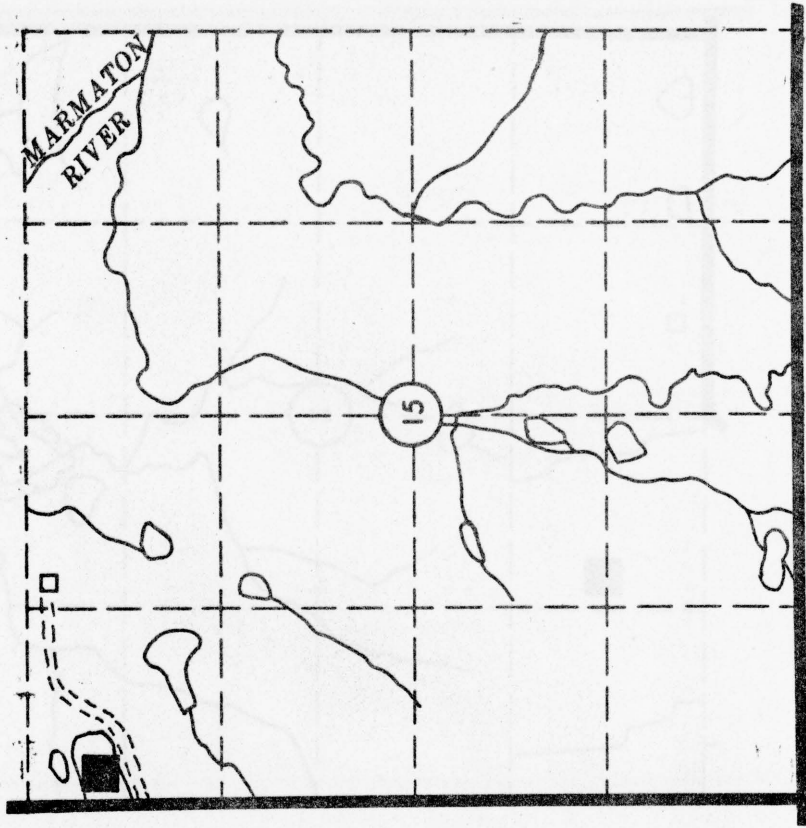
Site No. Ls+12 Date November, 1974
Pp
 Material Limestone County Bourbon
 Location NW 1/4 Sec. 15 Twp. 26S Range 23E
 Owner Oscar H. Younggren, Redfield, Kansas address _____
 Nature of Deposit Dry accessibility Good Site located on Plate V
 Status of Site Open Materials Site; Sampled

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Pawnee Limestone Formation-Myrick Station L.s. Mbr.
 Material Similar To SHC Lab. No. 21206
 Specific Gravity (Sat.) 2.66 (Dry) 2.64
25.4
 Los Angeles Wear 0.94 Soundness 0.98
 Absorption _____
 wt. Cu.ft. _____ Str. Ratio _____
 Remarks Materials Department Site No. 6-11



MATERIAL SITE DATA FORM

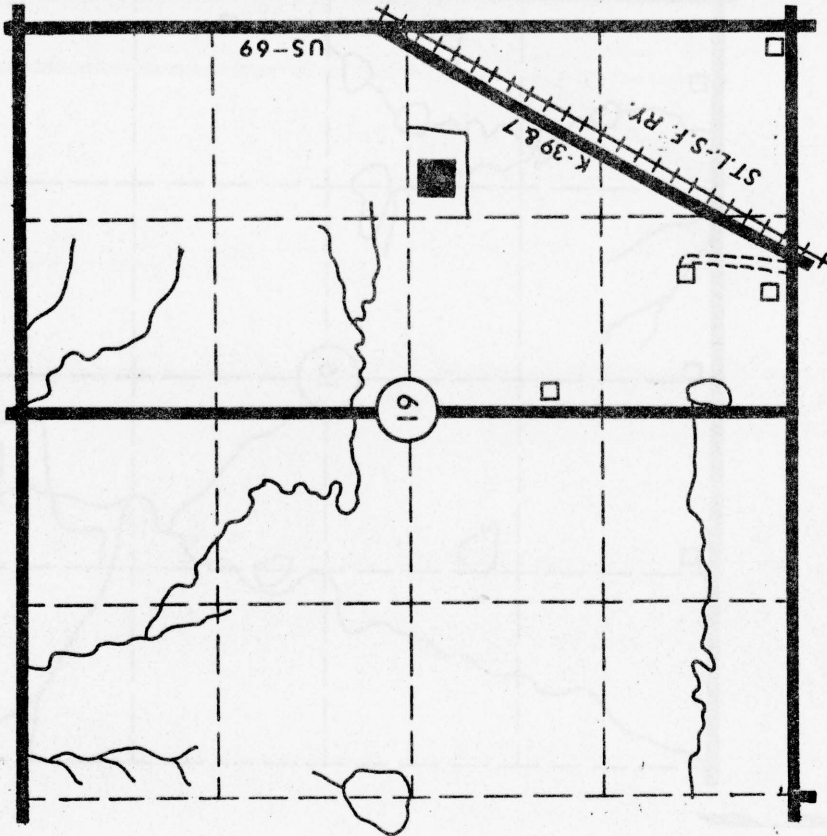
Site No. Ls+14 Date November, 1974
 Material Limestone County Bourbon
 Location SE 1/4 Sec. 19 Twp. 26S Range 25E
 Owner Ralph Lockwood, Rt. 5, Fort Scott, Kansas
 Nature of Deposit Dry Accessibility Good Site Located on Plate VI
 Status of Site Open Materials Site; Sampled

EXPLORATION DATA

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

CORRELATION DATA










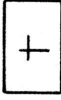





Geological Age Pennsylvanian
 Geological Source Pawnee Limestone Formation-Laberdie Ls. Mbr.
 Material Similar To SHC Lab. No. 69-540
 Specific Gravity (Sat.) 2.54 (Dry) 2.48
 Los Angeles Wear 33.8(B)
 Absorption 2.20 Soundness 0.99
 Wt. Co. Ft. Str. Ratio
 Remarks Materials Department Site No. 6-15



Scale: 1" = 1/4 mile

OPEN MATERIALS SITES; NOT SAMPLED

LEGEND

	Trail or lane		Open materials sites; not sampled
	Road		Open materials sites; sampled
	Railroad		Center of section
	Hedge or trees		Dwelling
	Major streams		Cemetery
	Intermittent streams		School
	Pond or lake		Church
			Town or city

MATERIAL SITE DATA FORM

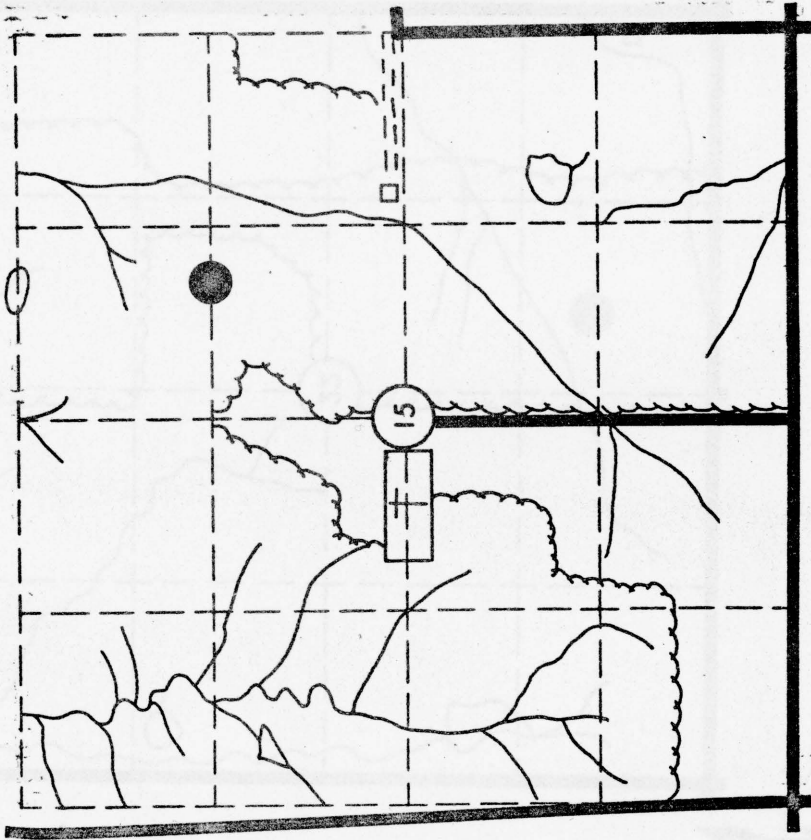
Site No. Ls+15 Date November, 1974
Rh County Bourbon
 Material Limestone
 Location NE 1/4 Sec. 15 Twp. 24S Range 23E
 Owner Adrian Craigmiles, Rich Hill, Mo. address
 Nature of Deposit Dry accessibility Fair Site Located on Plate I
 Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Hertha Ls. Fm. - Sniabar Ls. Mbr.
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Cf. Gr.Ft. _____ Str. Ratio _____
 Remarks _____



Scale: 1" = 1/4 mile

MATERIAL SITE DATA FORM

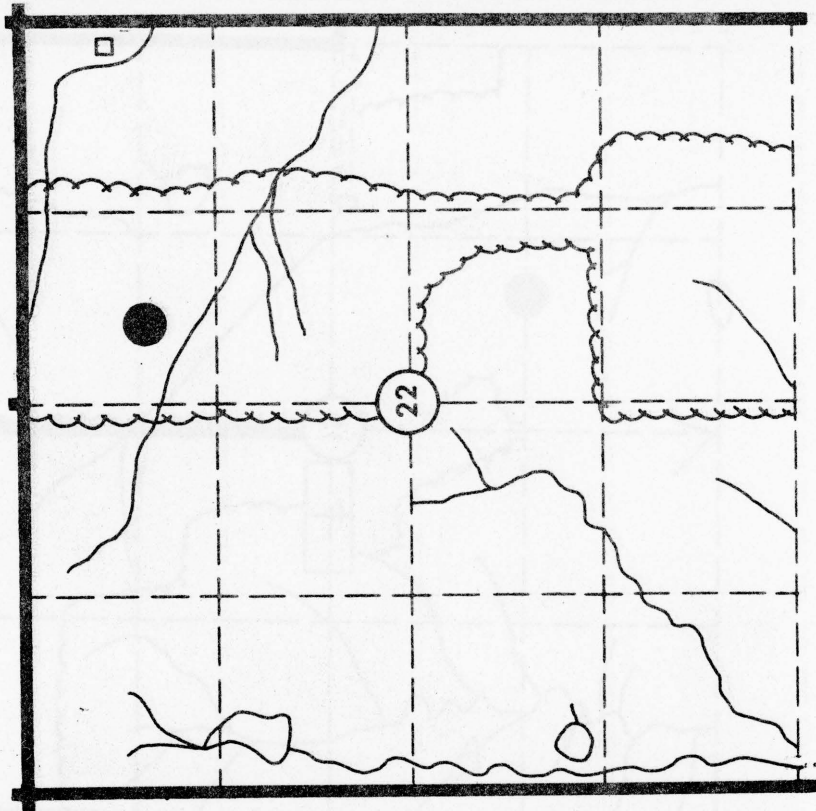
Site No. Ls+16 Date November, 1974
Ph County Bourbon
 Material Limestone
 Location NE 1/4 Sec. 22 Twp. 24S Range 23E
 Owner Kenneth B. Hart, Deyon, Kansas address
 Nature of Deposit Dry accessibility Poor Site located on Plate I
 Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Hertha Ls. Fm. - Sniabar Ls. Mbr.
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry)
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu.Ft. _____ Str. Ratio _____
 Remarks _____



Scale: 1" = 1/4 mile

MATERIAL SITE DATA FORM

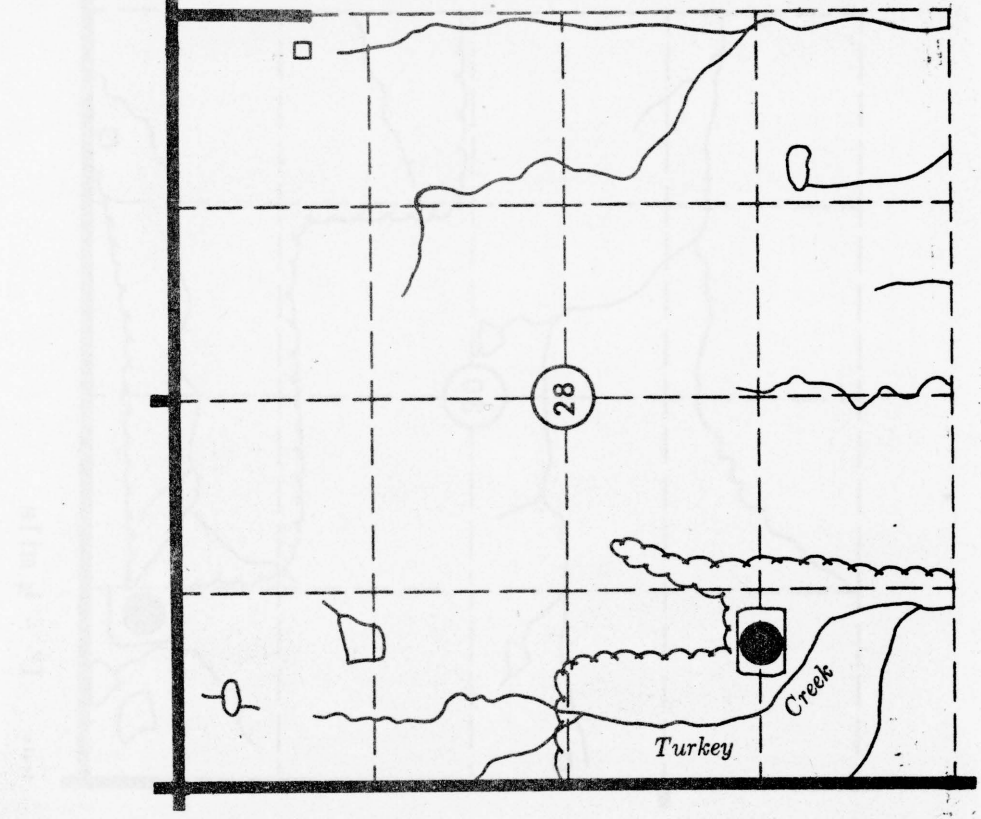
Site No. LS+17 Date November, 1974
PD
 Material Limestone County Bourbon
 Location SW 1/4 Sec. 28 Twp. 24S Range 22E
 Owner Loretta Hockett, Bronson, Kansas address _____
 Nature of Deposit Dry Accessibility Fair Site Located on Plate I
 Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

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

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 _____
 Mt. Cu.Ft. _____ Str. Ratio _____
 Remarks _____



Scale: 1" = 1/4 mile

MATERIAL SITE DATA FORM

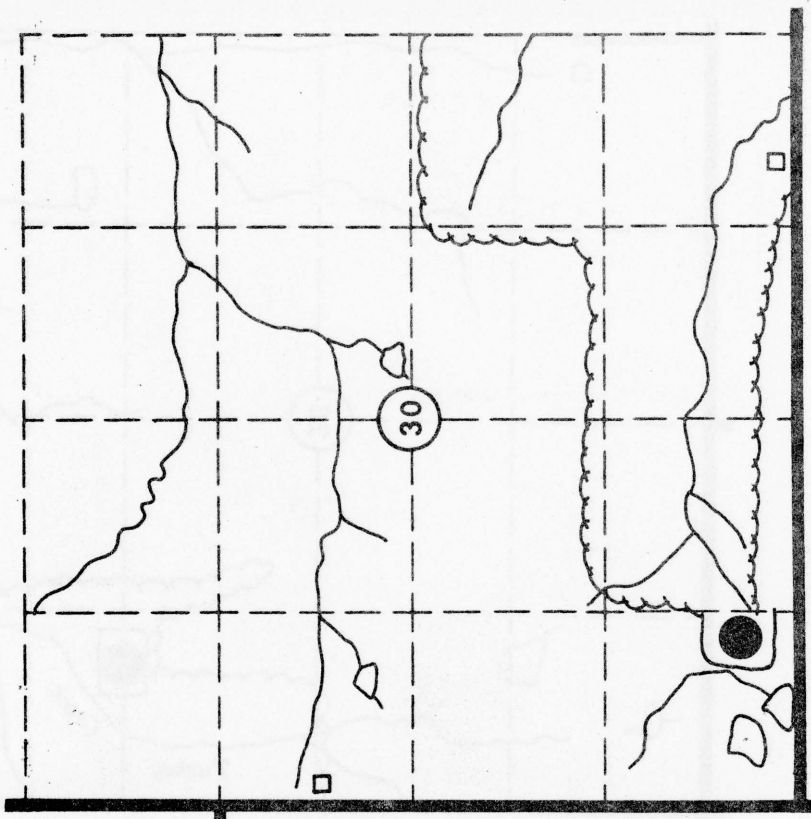
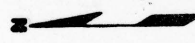
Site No. Ls+18 Date November, 1974
Ps County Bourbon
 Material Limestone
 Location SW 1/4 Sec. 30 Twp. 24S Range 23E
 Owner William Ray Taylor, Uniontown, Kansas
 Name address
 Nature of Deposit Dry Accessibility Good Site Located on Plate I
 Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of 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 Pennsylvanian
 Geological Source Swope Ls. Fm. - Bethany Ls. Mbr.
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Co.Ft. _____ Str. Ratio _____
 Remarks _____



Scale: 1" = 1/4 mile

MATERIAL SITE DATA FORM

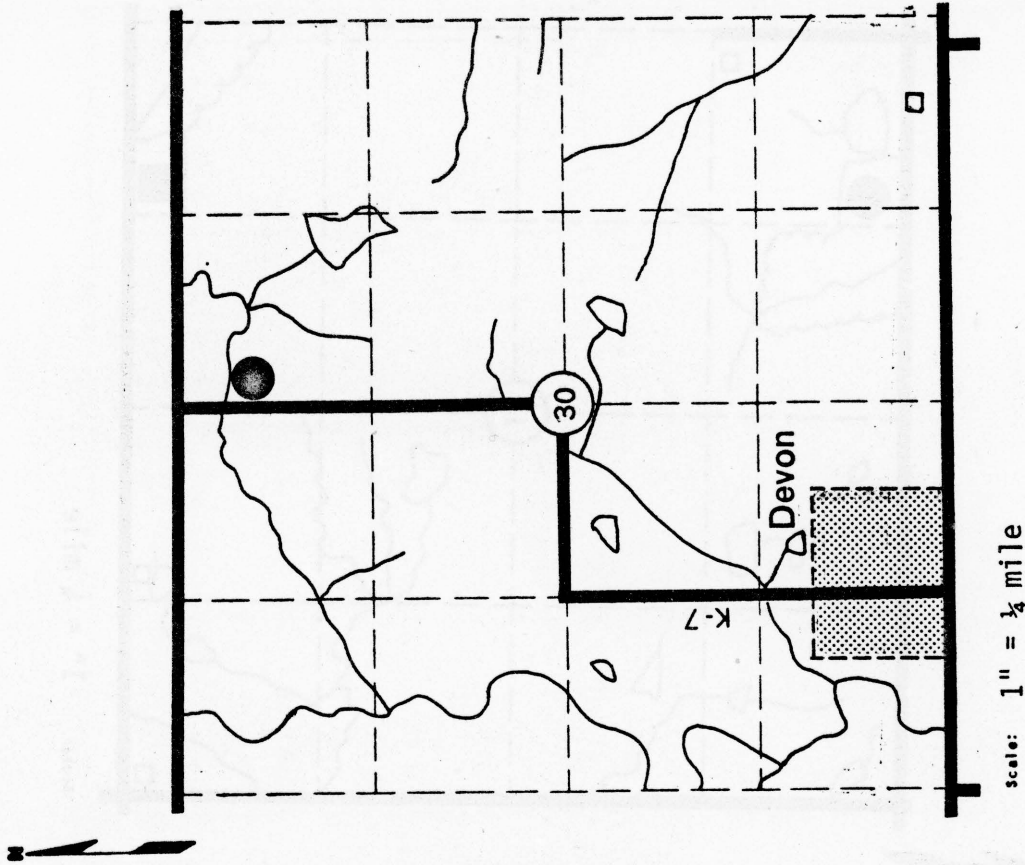
Site No. Ls+19 Date September, 1975
Pa County Bourbon
 Material Limestone Range 24E
 Location NE 1/4 Sec. 30 Twp. 24S
 Owner _____ address _____
 Nature of Deposit Dry Accessibility Good Site Located on Plate II
 Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Altamont Ls. Fm. - Morland Ls. Mbr.
 Material Similar to _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Near _____
 Absorption _____ Soundness _____
 Wt. Co.Ft. _____ Str. Ratio _____
 Remarks _____



MATERIAL SITE DATA FORM

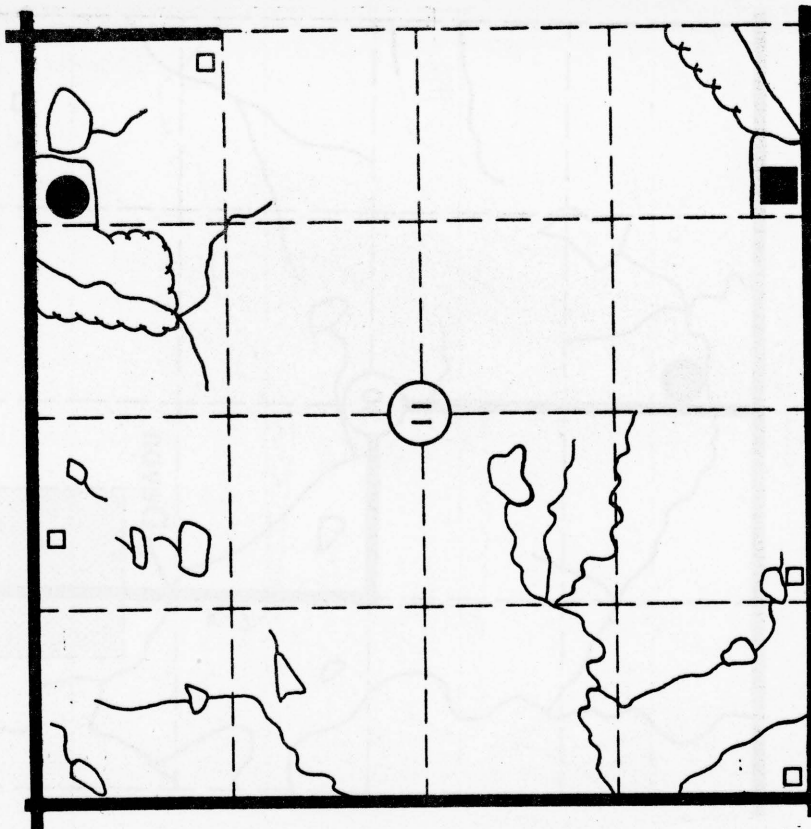
Site No. LS+20 Date November, 1974
Pf County Bourbon
 Material Limestone
 Location NE 1/4 Sec. 11 Twp. 24S Range 25E
 Owner Ralph Fairbanks, Rt. 2, Ft. Scott, Kansas
 Name address
 Nature of Deposit Wet Accessibility Good Site Located on Plate II
 Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of Overburden	Depth of Material	Percent Retained					G.F.	L.L.	P.I.
				1/2	3/4	3/8	5/8	1			

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Fort Scott Ls. Fm. - Higginsville Ls. Mbr.
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu.ft. _____ Str. Ratio _____
 Remarks _____



Scale: 1" = 1/4 mile

MATERIAL SITE DATA FORM

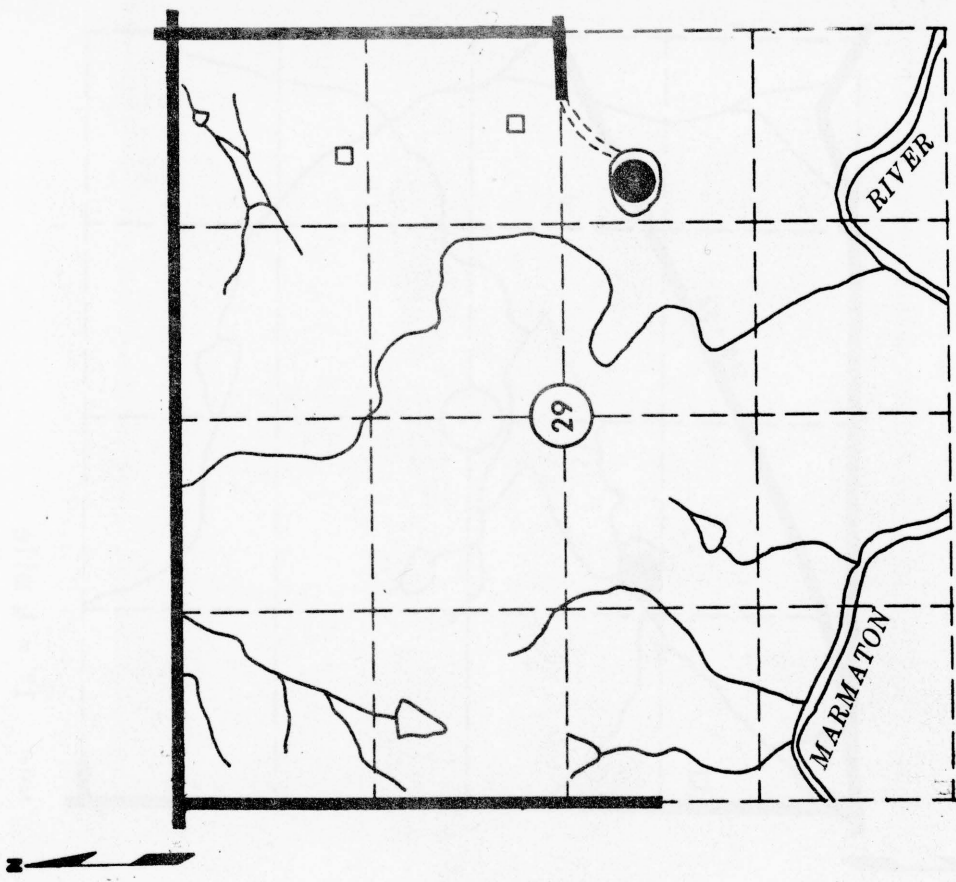
Ss+21
 Site No. Pa Date November, 1974
 Material Limestone County Bourbon
 Location SE 1/4 Sec. 29 Twp. 25S Range 23E
 Owner Robert G. Steele, Redfield, Kansas address
 Nature of Deposit Wet accessibility Good Site located on Plate III
 Status of Site Open Materials Site; Not sampled

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Bandera Shale FM - Bandera Quarry SS Mbr.
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu.Ft. _____ Str. Ratio _____
 Remarks _____



Scale: 1" = 1/4 mile

MATERIAL SITE DATA FORM

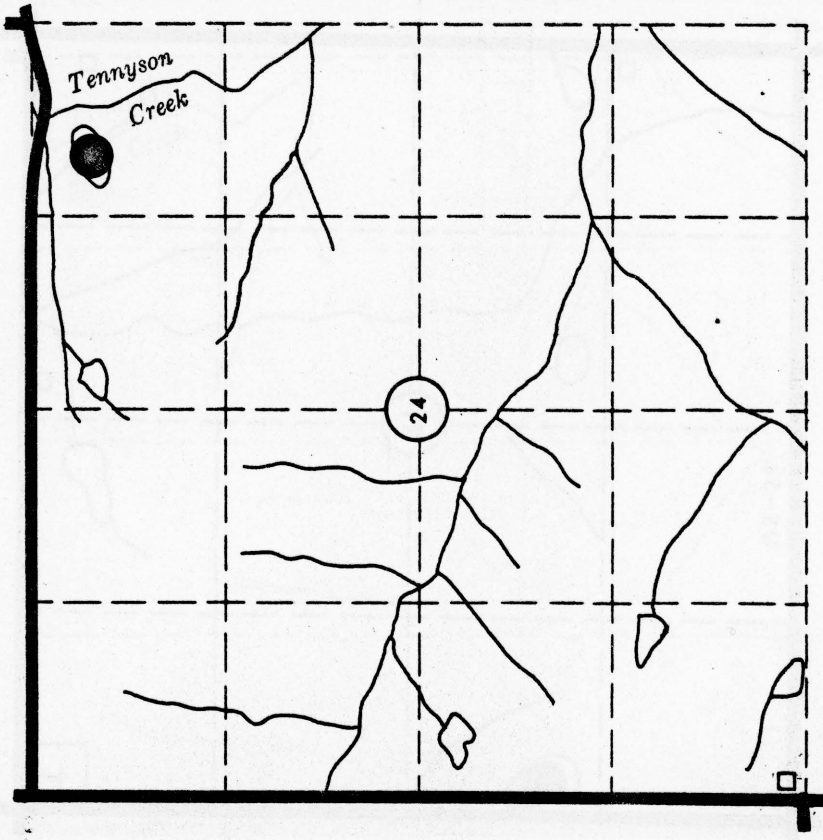
Site No. Ls+23 Date November, 1974
RS
 Material Limestone County Bourbon
 Location NE 1/4 Sec. 24 Twp. 25S Range 21E
 Owner Kaley Blythe (J.K. Corp), Uniontown, Kansas
 Name address
 Nature of Deposit Dry accessibility Good Site Located on Plate III
 Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

Test Hole	Material at bottom of hole	Depth of overburden	Depth of Material	Percent Retained					No. 200	G.F.	L.L.	P.I.
				1/2	3/4	1	1 1/2	2				

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Swope Ls. Fm. - Bethany Falls Ls. Mbr.
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Near _____
 Absorption _____ Soundness _____
 Wt. Co.Ft. _____ Str. Ratio _____
 Remarks _____



Scale: 1" = 1/4 mile

MATERIAL SITE DATA FORM

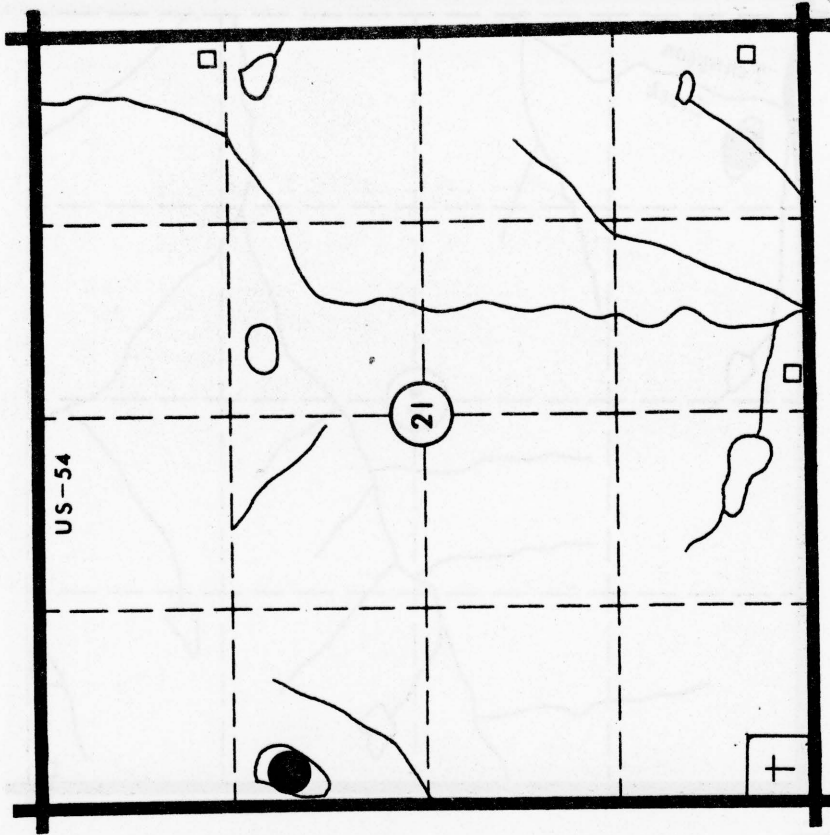
Site No. Ls+24 Date September, 1975
Ra
 Material Limestone County Bourbon
 Location NW 1/4 Sec. 21 Twp. 25S Range 23E
 Owner Abner Johnson, Uniontown, Kansas address _____
 Nature of Deposit Dry Accessibility Good Site located on Plate III
 Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

Test Hole	Material at bottom of Hole	Depth of 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 Pennsylvanian
 Geological Source Altamont Ls. Fm. - Worland Ls. Mbr.
 Material Similar to _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Near _____
 Absorption _____ Soundness _____
 Wt. Co. ft. _____ Str. Ratio _____
 Remarks _____



MATERIAL SITE DATA FORM

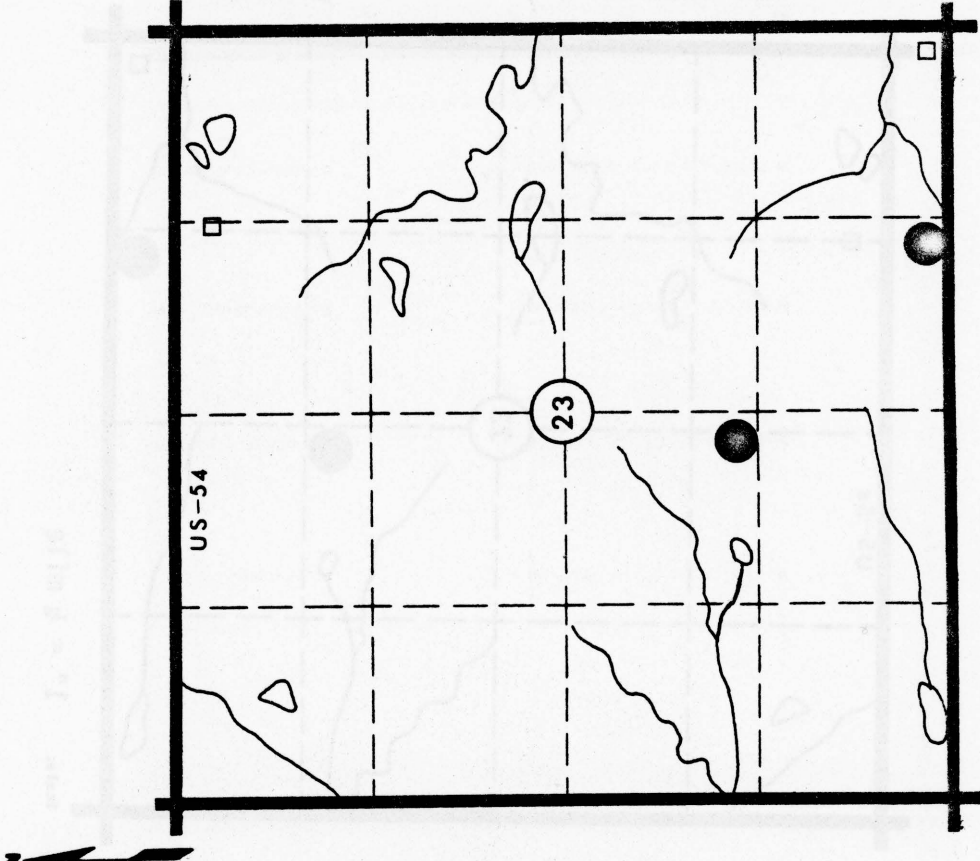
Site No. Pa Date September, 1975
 Material Limestone County Bourbon
 Location SW 1/4 Sec. 23 Twp. 25S Range 23E
 Owner Ancel Johnson, Rt. 3, Ft. Scott, Kansas address
 Nature of Deposit Wet Accessibility Good Site Located on Plate III
 Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of 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 Pennsylvanian
 Geological Source Altamont Ls; Fm. - Worland Ls. Mbr.
 Material Similar To _____
 Specific Gravity (sat.) _____ (Dry)
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu.Ft. _____ Str. Ratio _____
 Remarks _____



MATERIAL SITE DATA FORM

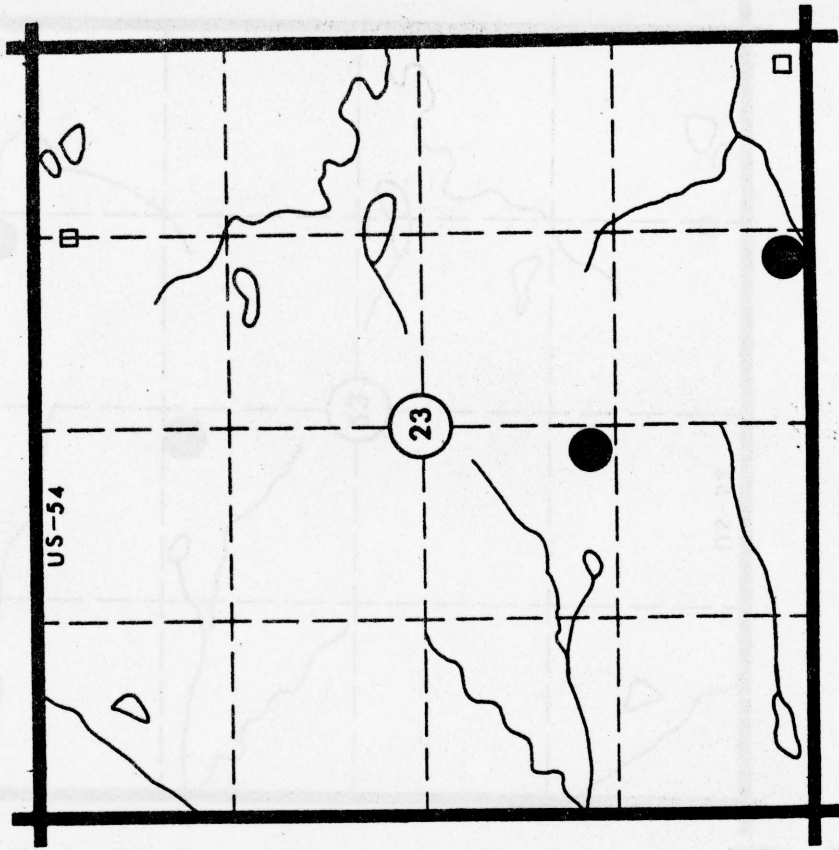
Site No. Ls+26 Date September, 1975
Pa
 Material Limestone County Bourbon
 Location SE 1/4 Sec. 23 Twp. 25S Range 23E
 Owner Arlo Eden, Rt. 3, Ft. Scott, Kansas
 Name _____ address _____
 Nature of Deposit Wet accessibility Good Site located on Plate III
 Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

Test Hole	Material at bottom of hole	Depth of over-burden	Depth of Material	Percent Retained					Mesh 200	G.F.	L.L.	P.L.
				1/2	3/4	3/8	1/4	1/16				

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Altamont Ls. Fm. - Worland Ls. Mbr.
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Mt. Co. Ft. _____ Str. Ratio _____
 Remarks _____



MATERIAL SITE DATA FORM

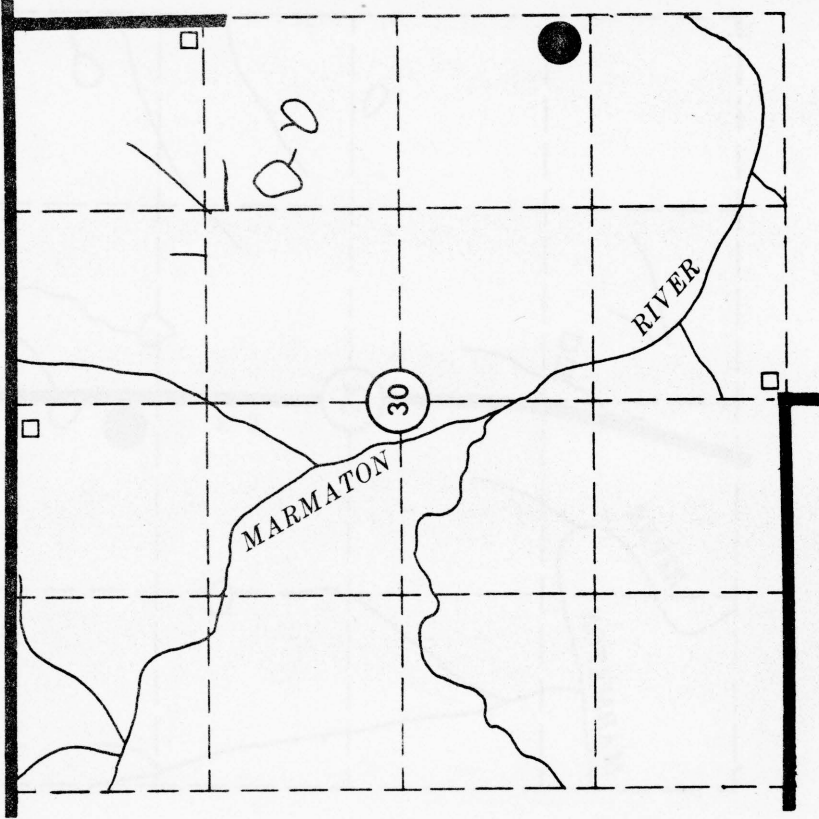
Site No. Ss+27 Date September, 1975
Rb County Bourbon
 Material Sandstone
 Location SE 1/4 Sec. 30 Twp. 25S Range 23E
 Owner Raymond Cowan, Redfield, Kansas address _____
 Nature of Deposit Dry Accessibility Good Site Located on Plate III
 Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of overburden	Depth of Material	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 Pennsylvanian
 Geological Source Bandera Shale Fm. - Bandera Quarry Ss. Mbr.
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Near _____
 Absorption _____ Soundness _____
 Wt. Cu.ft. _____ Str. Ratio _____
 Remarks _____



Scale: 1" = 1/4 mile

MATERIAL SITE DATA FORM

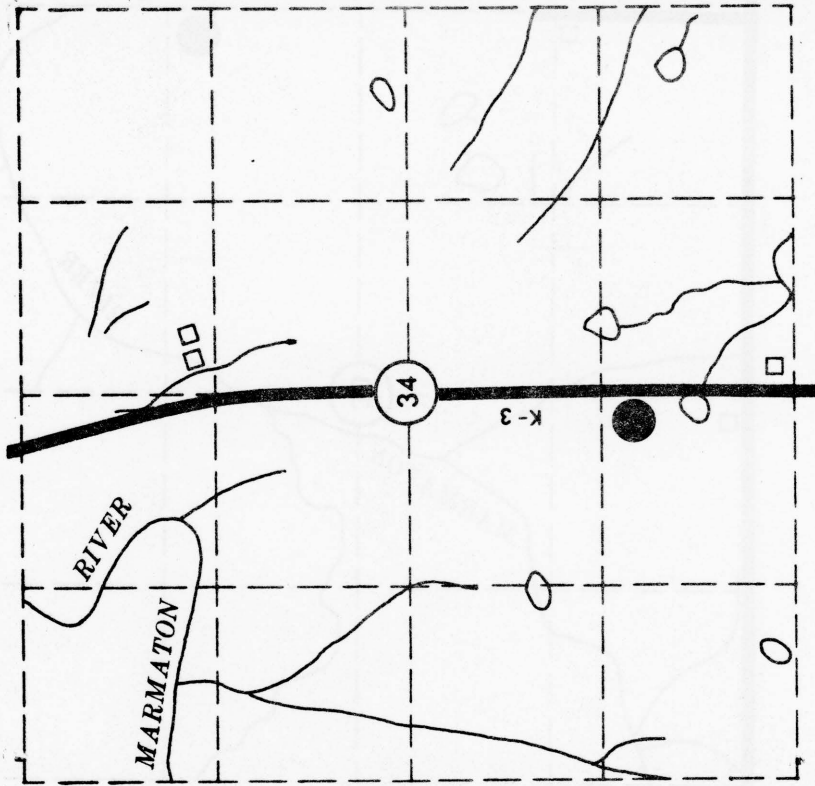
Site No. Ls+28 Date September, 1975
Rh
 Material Limestone County Bourbon
 Location SW 1/4 Sec. 34 Twp. 25S Range 22E
 Owner Arch L. Ramsey, Etal, Uniontown, Kansas
 Nature of Deposit Dry accessibility Good site located on Plate III
 Status of Site Open Materials Site; Not Sampled
 address

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Hertha Ls. Fm. - Sniabar Ls. Mbr.
 Material Similar to _____
 Specific Gravity (sat.) _____ (dry)
 Los Angeles Bear _____
 Absorption _____ Soundness _____
 Wt. Cu.Ft. _____ Str. Ratio _____
 Remarks _____



MATERIAL SITE DATA FORM

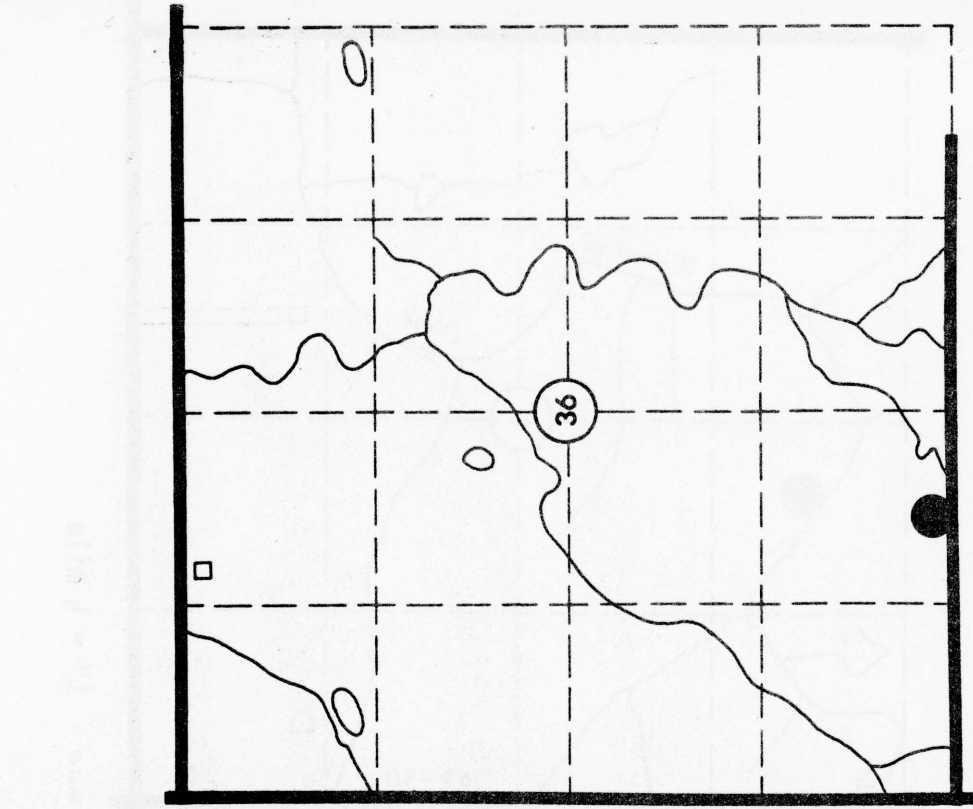
Site No. Ls+29 Date September, 1975
Pa County Bourbon
 Material Limestone
 Location SW 1/4 Sec. 36 Twp. 25S Range 22E
 Owner William A. Semler, Uniontown, Kansas address _____
 Nature of Deposit Wet Accessibility Good Site Located on Plate III
 Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of 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	Mesh 200

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Altamont Ls. Fm. - Worland Ls. Mbr.
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu.Ft. _____ Str. Ratio _____
 Remarks _____



Scale: 1" = 1/4 mile

MATERIAL SITE DATA FORM

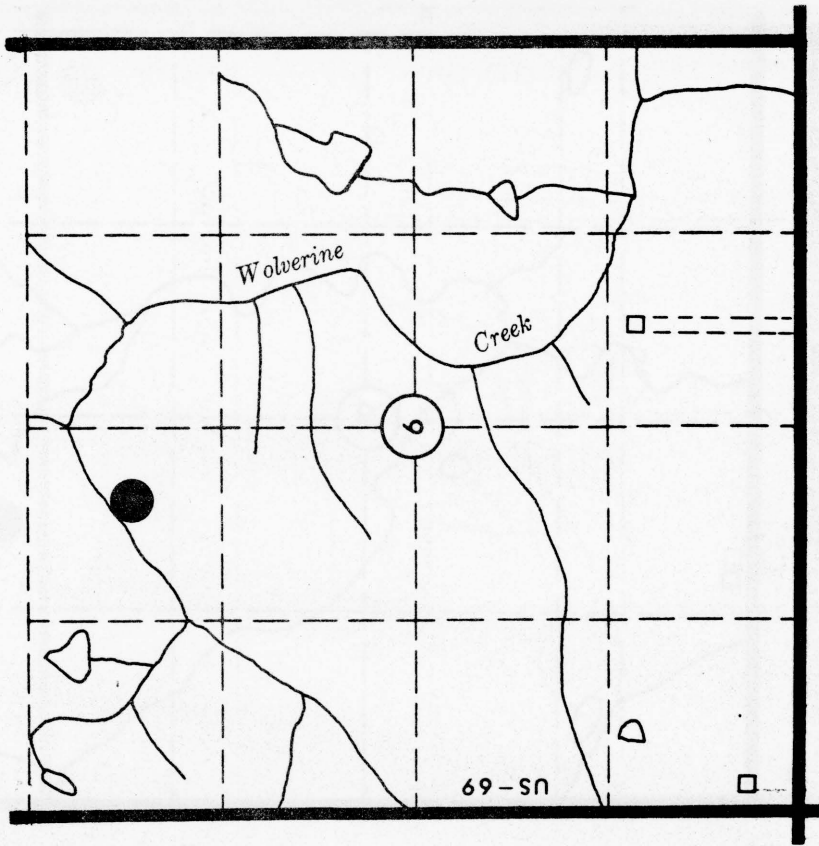
Site No. LS+30
PP Date September, 1975
 Material Limestone County Bourbon
 Location NW 1/4 Sec. 6 Twp. 25S Range 25E
 Owner Wayne Miller, Rt. 2, Ft. Scott, Kansas
 Name Wayne Miller address
 Nature of Deposit Dry Accessibility Good Site Located on Plate IV
 Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Pawnee Ls. Formation - Laberdie Ls. Mbr.
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Near _____
 Absorption _____ Soundness _____
 Wt. Co. Fts. _____ Str. Ratio _____
 Remarks _____



Scale: 1" = 1/4 mile

MATERIAL SITE DATA FORM

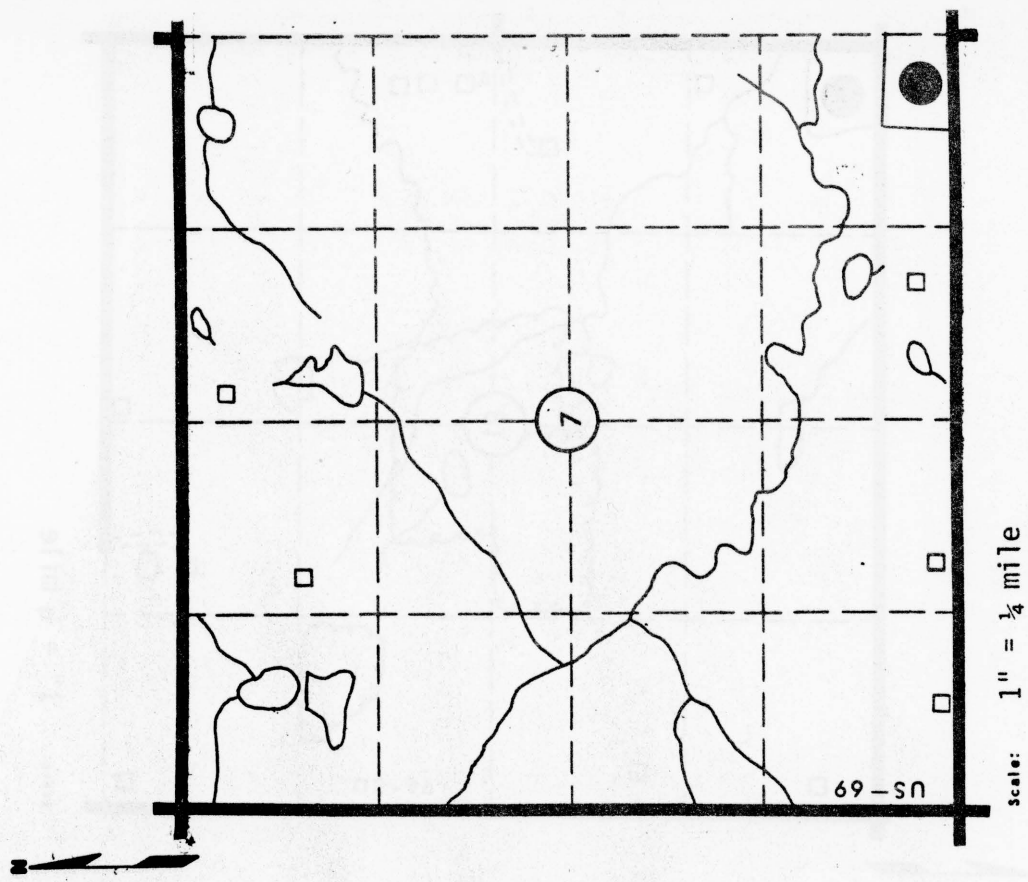
Site No. LS+31 Date September, 1975
EP
 Material Limestone County Bourbon
 Location SE 1/4 Sec. 7 Twp. 25S Range 25E
 Owner Unknown address _____
 Nature of Deposit Dry accessibility Good Site Located on Plate IV
 Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Pawnee Ls. Fm. - Laberdie Ls. Mbr.
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu.Ft. _____ Str. Ratio _____
 Remarks _____



MATERIAL SITE DATA FORM

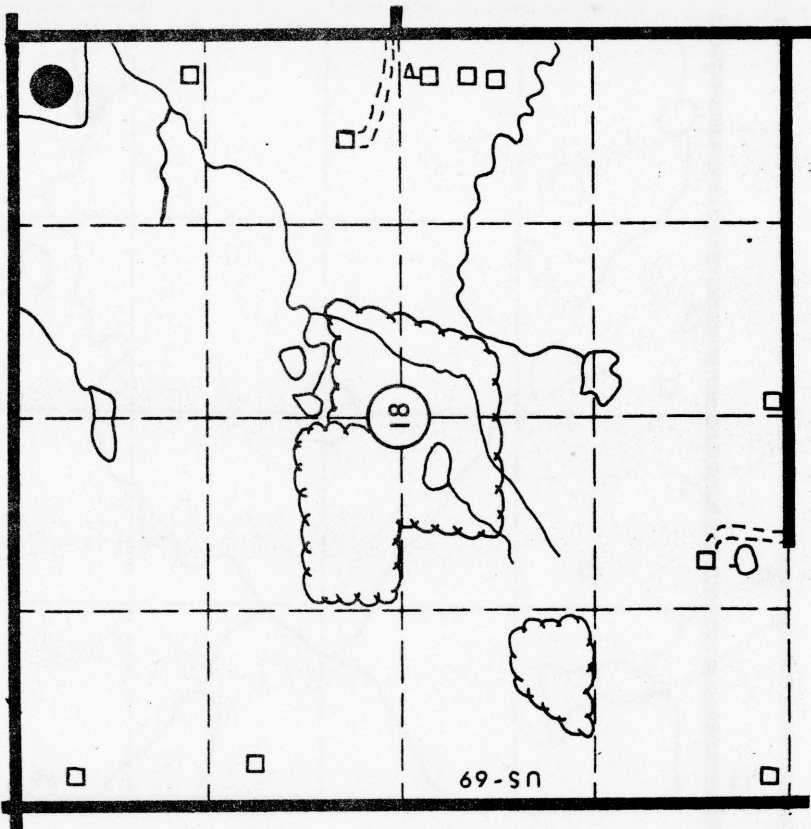
Site No. Ls+32 Date November, 1974
pp
 Material Limestone County Bourbon
 Location NE 1/4 Sec. 18 Twp. 25S Range 25E
 Owner Guy S. Blankenship, Rt. 2, Ft. Scott, Kansas
address
 Nature of Deposit Wet Accessibility Good Site Located on Plate IV
 Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Pawnee Limestone Formation - Laberdie Ls. Mbr.
 Material Similar to _____
 Specific Gravity (sat.) _____ (dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Mt. Cu.Ft. _____ Str. Ratio _____
 Remarks _____



Scale: 1" = 1/4 mile

MATERIAL SITE DATA FORM

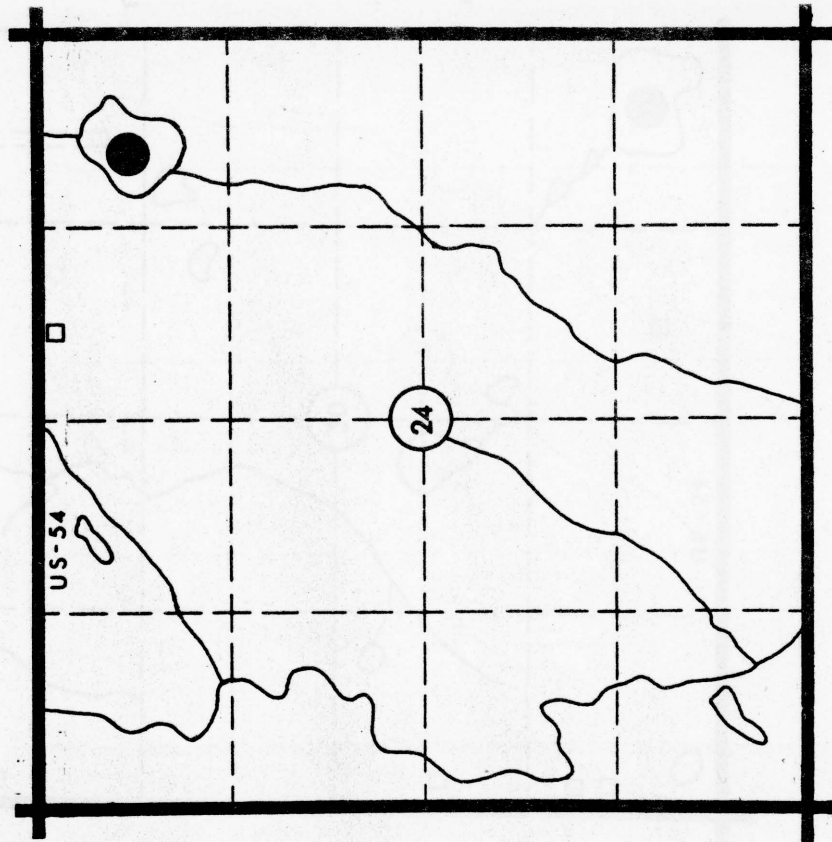
Site No. Ss+33 Date September, 1975
PB
 Material Sandstone County Bourbon
 Location NE 1/4 Sec. 24 Twp. 25S Range 23E
 Owner Betty Lou Denton, Topeka, Kansas address
 Nature of Deposit Wet accessibility Good Site Located on Plate IV
 Status of Site Open Materials Site; Not Sampled

EXPLOSION DATA

Test Hole	Material at bottom of hole	Depth of overburden	Depth of Material	Percent Retained					No. 200	G.F.	L.L.	P.I.
				1/2	3/4	3/8	4	8				

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Bandera Shale Fm. - Bandera Quarry Ss. Mbr.
 Material Similar To _____
 Specific Gravity (sat.) _____ (dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu.Ft. _____ Str. Ratio _____
 Remarks _____



MATERIAL SITE DATA FORM

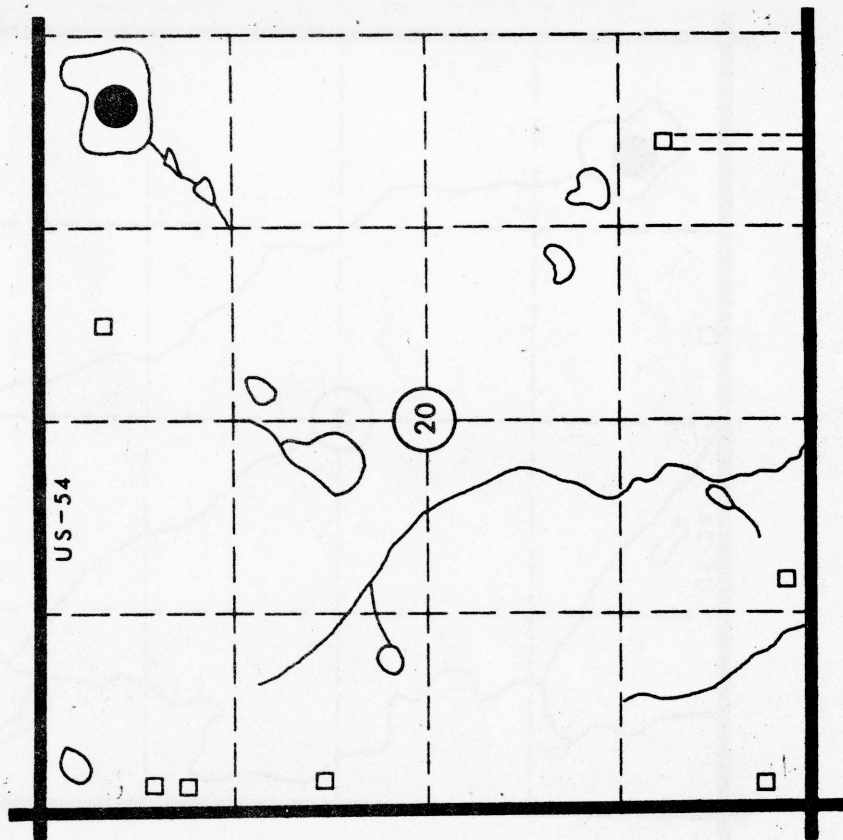
Site No. Ls+34 Date September, 1975
EP County Bourbon
 Material Limestone
 Location NE 1/4 Sec. 20 Twp. 25S Range R24E
 Owner Ruth J. Cleaver, Rt. 3, Ft. Scott, Kansas
 Nature of Deposit Wet Accessibility Good Site located on Plate IV
 Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of over-burden	Depth of Material	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 Pennsylvanian
 Geological Source Pawnee Ls. Fm. - Laberdie Ls. Mbr.
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu.ft. _____ Str. Ratio _____
 Remarks _____



Scale: 1" = 1/4 mile

MATERIAL SITE DATA FORM

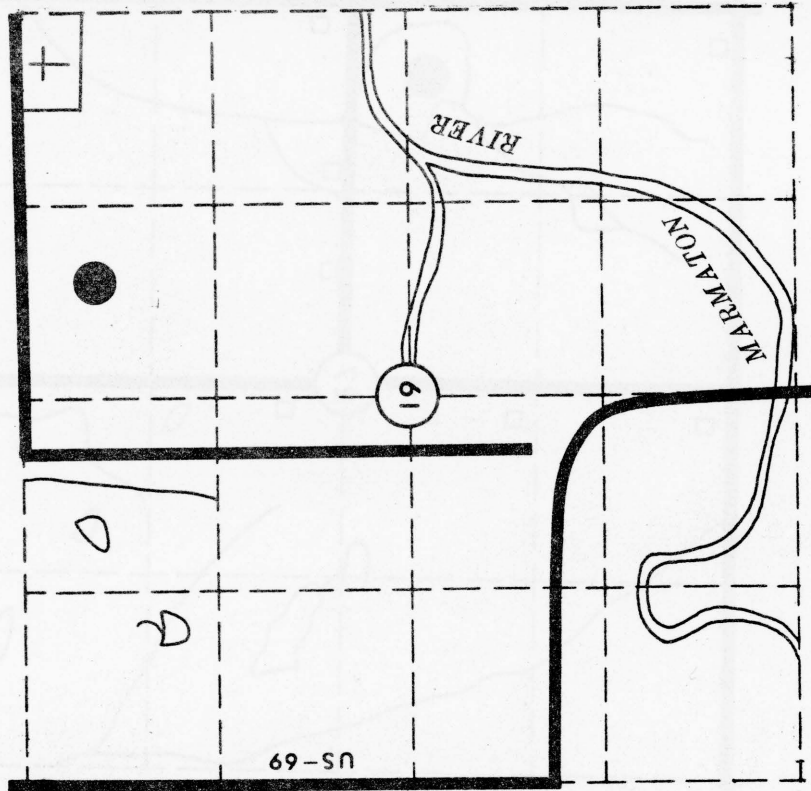
Site No. Ls+ 35 Date November, 1974
Pf
 Material Limestone County Bourbon
 Location NE 3/4 Sec. 19 Twp. 25 Range 25
 Owner Omer K. Thogmartin, Rt. 2, Ft. Scott, Kansas
 address
 Nature of Deposit Dry accessibility Good Site located on Plate IV
 Status of Site Open Materials Site; Not sampled

EXPLORATION DATA

Test Hole	Material at bottom of Hole	Depth of over-burden	Depth of Material	Percent Retained						Wash 200	S.F.	L.L.	P.L.
				1 1/2	3/4	3/8	1/4	1/16	1/32				

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Fort Scott Ls. Fm.-Higginsville Ls. Mbr.
 Material Similar to _____
 Specific Gravity (Sat.) _____ (Dry)
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu.Ft. _____ Str. Ratio _____
 Remarks _____



Scale: 1" = 1/4 mile

MATERIAL SITE DATA FORM

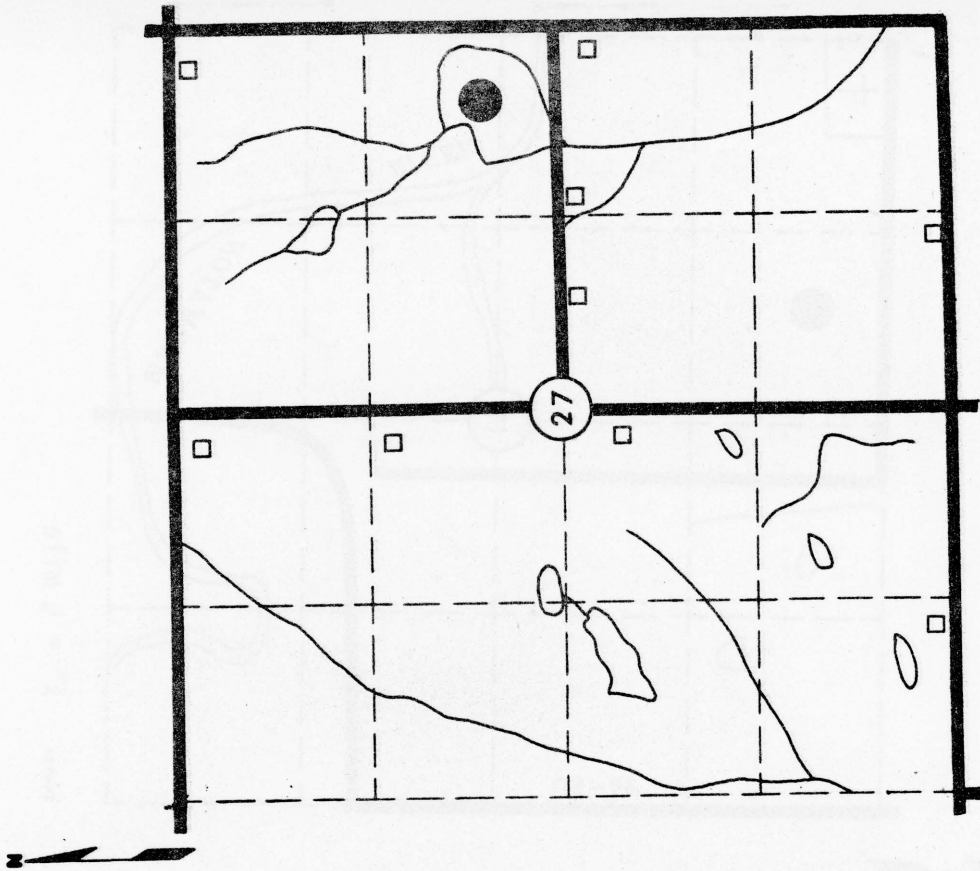
Site No. LS+36 Date September, 1975
Pf
 Material Limestone County Bourbon
 Location NE 1/4 Sec. 27 Twp. 25S Range 24E
 Owner Elmer E. Richardson, Rt. 3, Ft. Scott, Kansas
 Nature of Deposit Dry Accessibility Good Site Located on Plate IV
 Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of over-Burden	Depth of Material	Percent Retained							Wash 200	S.F.	L.L.	P.I.		
				1 1/2	3/4	3/8	5	16	30	50					100	

CORRELATION DATA

Geological Age _____
 Geological Source Fort Scott Ls. Fm. - Higginsville Ls. Mbr.
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu.Ft. _____ Str. Ratio _____
 Remarks _____



MATERIAL SITE DATA FORM

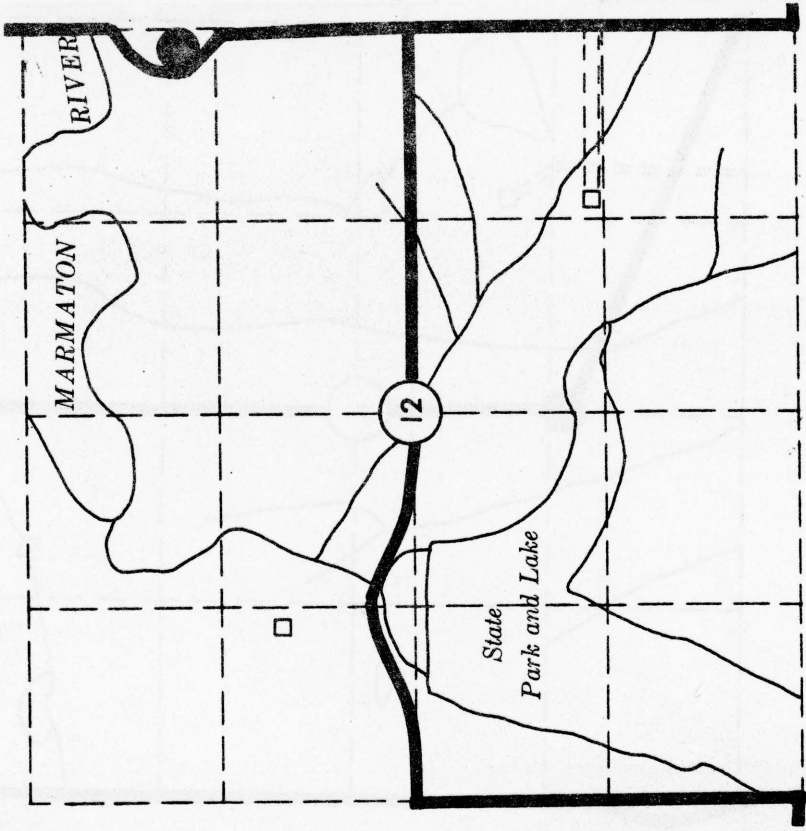
Site No. Es+37 Date September, 1975
PS
 Material Limestone County Bourbon
 Location NE 1/4 Sec. 12 Twp. 26S Range 21E
 Owner Ralph Stewart, Rt. 2, Moran, Kansas address _____
 Nature of Deposit Dry Accessibility Good Site Located on Plate V
 Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Swope Ls. Fm. - Bethany Falls Ls. Mbr.
 Material Similar to _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Near _____
 Absorption _____ Soundness _____
 Wt. Cu.ft. _____ Str. Ratio _____
 Remarks _____



Scale: 1" = 1/4 mile

MATERIAL SITE DATA FORM

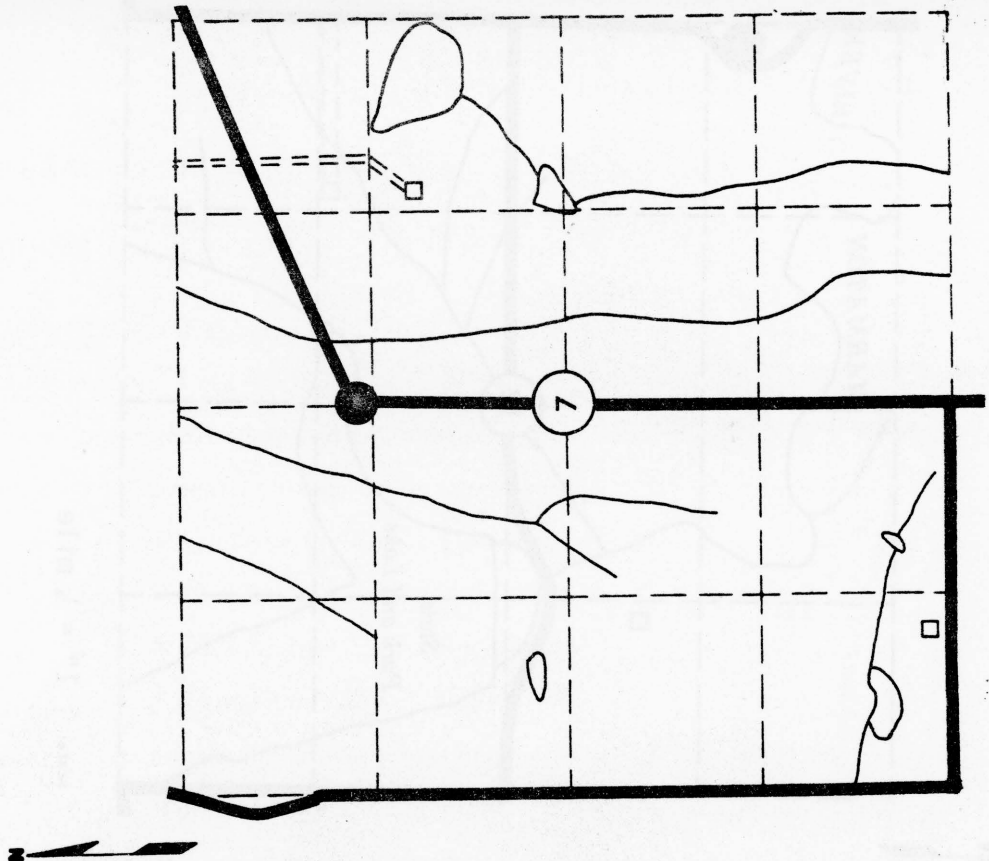
Site No. Ls+38 Date September, 1975
PS County Bourbon
 Material Limestone
 Location NW 1/4 Sec. 7 Twp. 26S Range 22E
 Owner Dale L. Kaufman, Humboldt, Kansas 66748
 address
 Nature of Deposit Dry accessibility Good Site Located on Plate V
 Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of over-Burden	Depth of Material	Percent Retained							Wash 200	G.F.	L.L.	P.I.
				1/2	3/4	3/8	1/4	3/16	1/8	3/32				

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Swope Ls. Fm. - Bethany Falls Ls. Mbr.
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Mt. Cu.Ft. _____ Str. Ratio _____
 Remarks _____



Scale: 1" = 1/4 mile

MATERIAL SITE DATA FORM

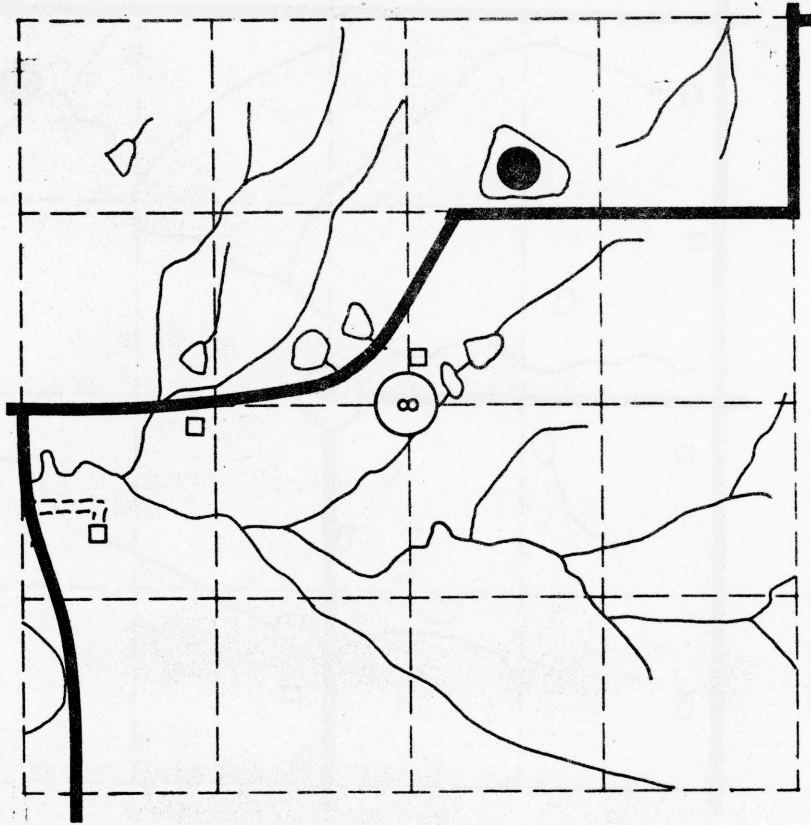
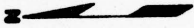
Site No. LS+39 Date November, 1974
PS Material Limestone County Bourbon
 Location SE 1/4 Sec. 8 Twp. 26S Range 22E
 Owner Albert Drake, Uniontown, Kansas
 Nature of Deposit Dry accessibility Good address V
 Status of Site Open Materials Site; Not Sampled Site Located on Plate

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Swope Ls. Fm. - Bethany Falls Ls. Mbr.
 Material Similar To _____
 Specific Gravity (sat.) _____ (dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu.Ft. _____ Str. Ratio _____
 Remarks _____



Scale: 1" = 1/4 mile

MATERIAL SITE DATA FORM

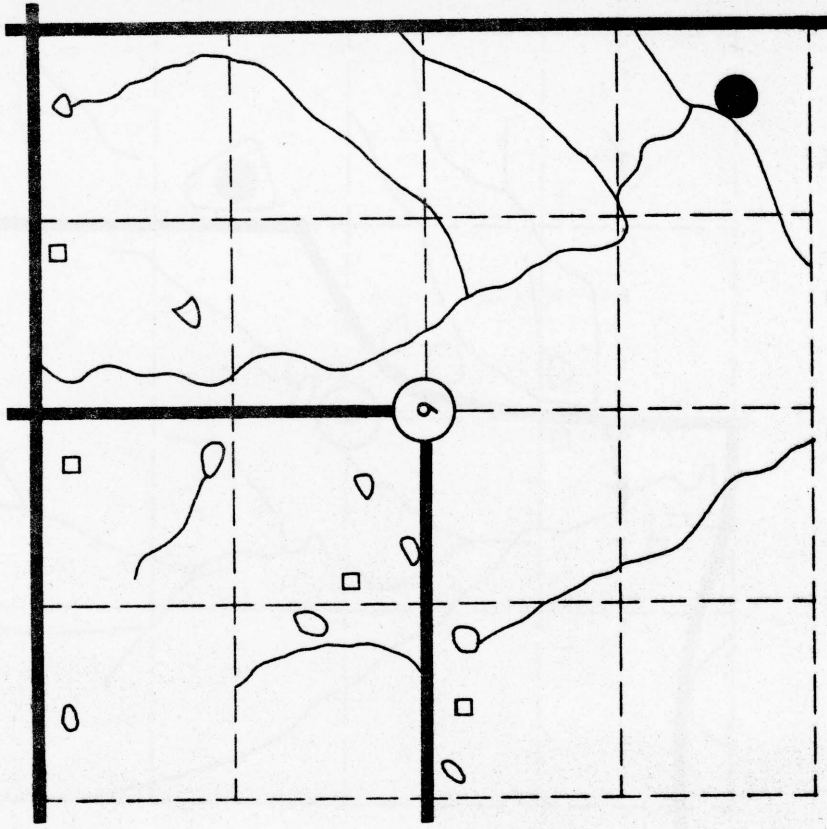
Site No. Ls+40 Date September, 1975
 Material PP County Bourbon
 Location SE 1/4 Sec. 9 Twp. 26S Range 23E
 Owner Darla Dee Lathrom, et al, 2257 S. Old Manor Rd., Wichita,
 address Ks. 67218
 Nature of Deposit Dry Accessibility Good Site Located on Plate _____
 Status of Site Open Materials Site; Not 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.					
				1/2	3/4	3/8	1/4	8	16				30	50	100	Mash 200	

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Pawnee Ls. Fm. - Myrick Station Ls. Mbr.
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Co. Ft. _____ Str. Ratio _____
 Remarks _____



MATERIAL SITE DATA FORM

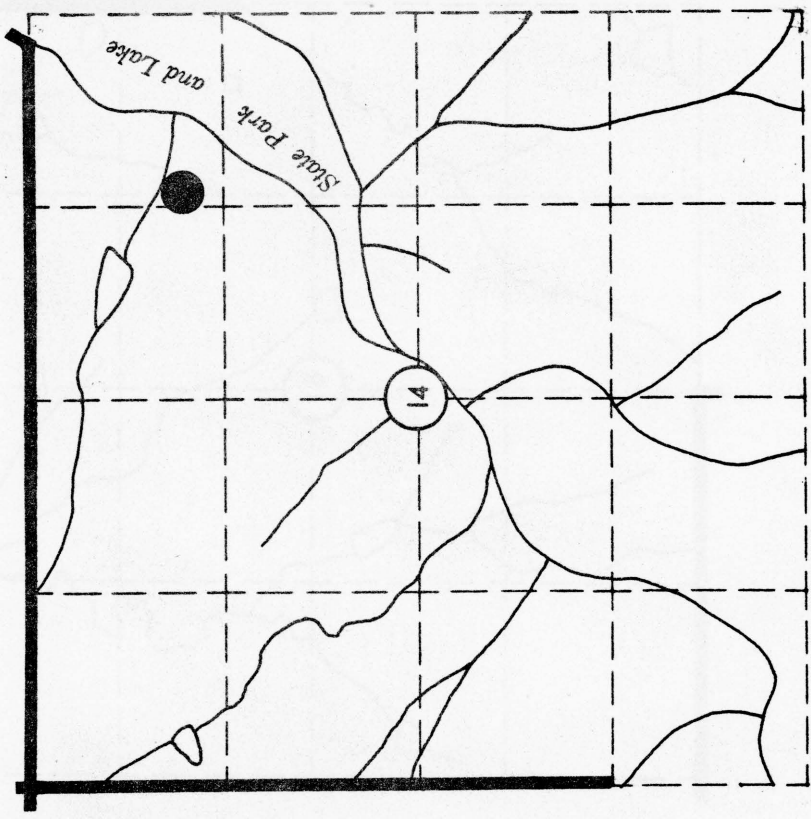
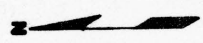
Site No. LS+41 Date September, 1975
PS
 Material Limestone County Bourbon
 Location NE 1/4 Sec. 14 Twp. 26S Range 21E
 Owner State of Kansas, Fish & Game Comm., Pratt, Kansas
 name address
 Nature of Deposit Dry Accessibility Good Site Located on Plate V
 Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of over-Burden	Depth of Material	Percent Retained							Wash	G.F.	L.L.	P.I.			
				1/2	3/4	1	1 1/2	2	3	4					5	100	200

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Swope Ls. Fm. - Bethany Falls Ls. Mbr.
 Material Similar to _____
 Specific Gravity (Sat.) _____ (Dry)
 Los Angeles Near _____
 Absorption _____ Soundness _____
 Wt. Co. Ft. _____ Str. Ratio _____
 Remarks _____



Scale: 1" = 1/4 mile

MATERIAL SITE DATA FORM

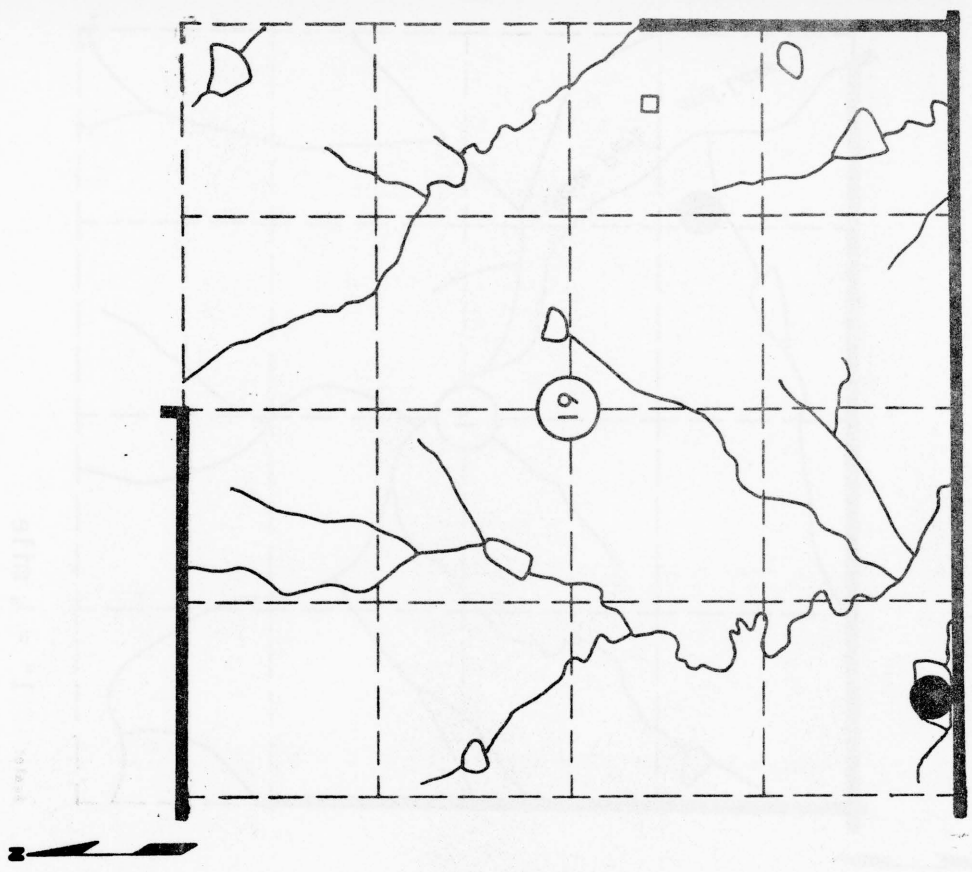
Site No. LS+42 Date November, 1974
PS
 Material Limestone County Bourbon
 Location SW 1/4 Sec. 19 Twp. 26S Range 22E
 Owner Kaley Blythe (J.K. Corp), Uniontown, Kansas
 address
 Nature of Deposit Dry Accessibility Good Site Located on Plate V
 Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

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

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Swope Ls. Fm. - Bethany Falls Ls. Mbr.
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu.Ft. _____ Str. Ratio _____
 Remarks _____



Scale: 1" = 1/4 mile

MATERIAL SITE DATA FORM

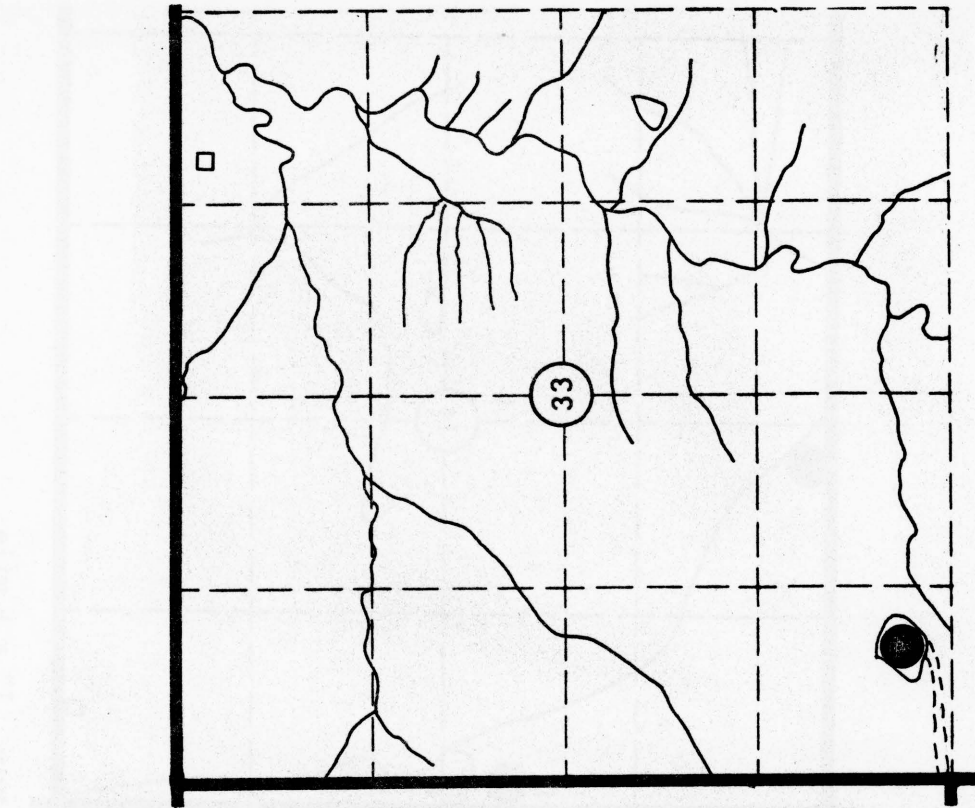
Site No. LS-43 Date November, 1974
Ph County Bourbon
 Material Limestone
 Location SW 1/4 Sec. 33 Twp. 26S Range 22E
 Owner O'Bryan Ranch, Hiattville, Kansas
 Nature of Deposit Dry Accessibility Good Site Located on Plate V
 Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of over-Burden	Depth of Material	Percent Retained					Wash 200	G.F.	L.L.	P.I.
				1/2	3/4	5/8	3/4	100				

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Hertha Ls. Fm. - Sniabar Ls. Mbr.
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu.Ft. _____ Str. Ratio _____
 Remarks _____



Scale: 1" = 1/4 mile

MATERIAL SITE DATA FORM

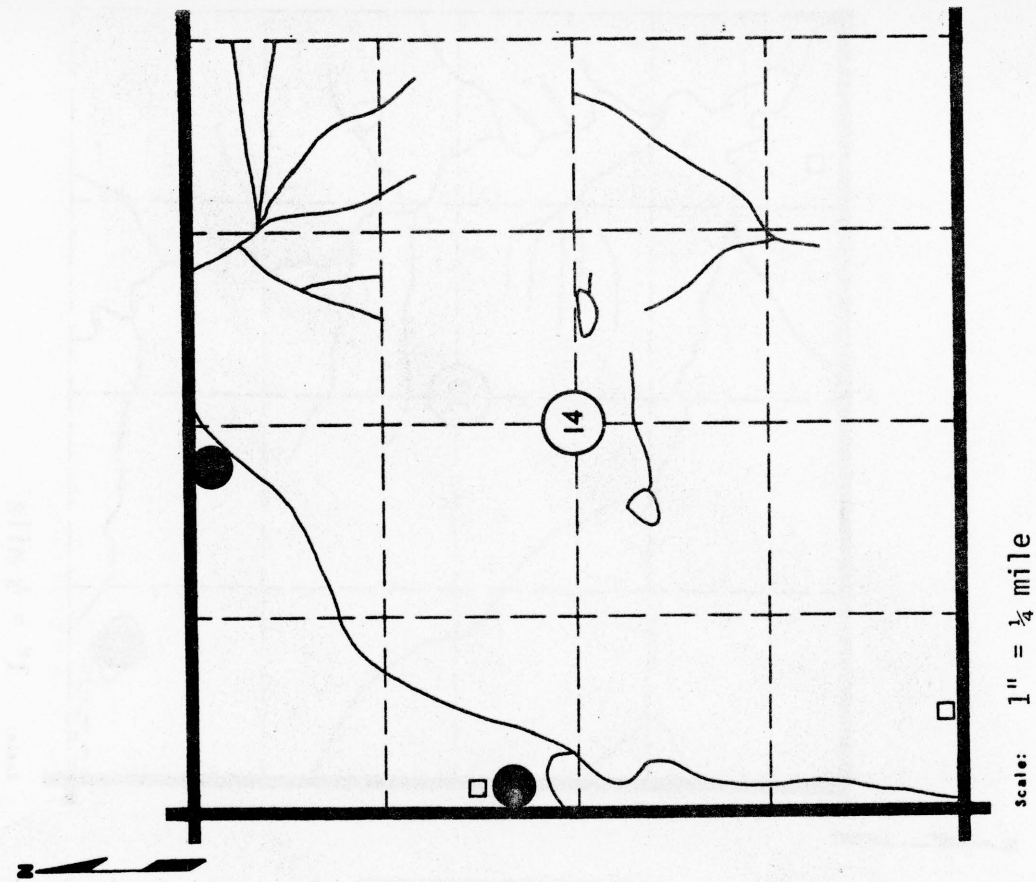
Site No. LS-44 Date September, 1975
PP
 Material Limestone County Bourbon
 Location NE 1/4 NW 1/4 Sec. 14 Twp. 27S Range 23E
 Owner John J. Towner, Pittsburg, Kansas address _____
 Nature of Deposit Dry accessibility Good Site Located on Plate V
 Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

Test Hole	Material at Bottom of Hole	Depth of Material	Depth of over-burden	Percent Retained							Wash 200	G.F.	L.L.	P.I.	
				1 1/2	3/4	3/8	1/4	1/16	1/32	1/64					

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Pawnee Ls. Fm. - Myrick Station Ls. Mbr.
 Material Similar To _____
 Specific Gravity (sat.) _____ (dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu.Ft. _____ Str. Ratio _____
 Remarks _____



Scale: 1" = 1/4 mile

MATERIAL SITE DATA FORM

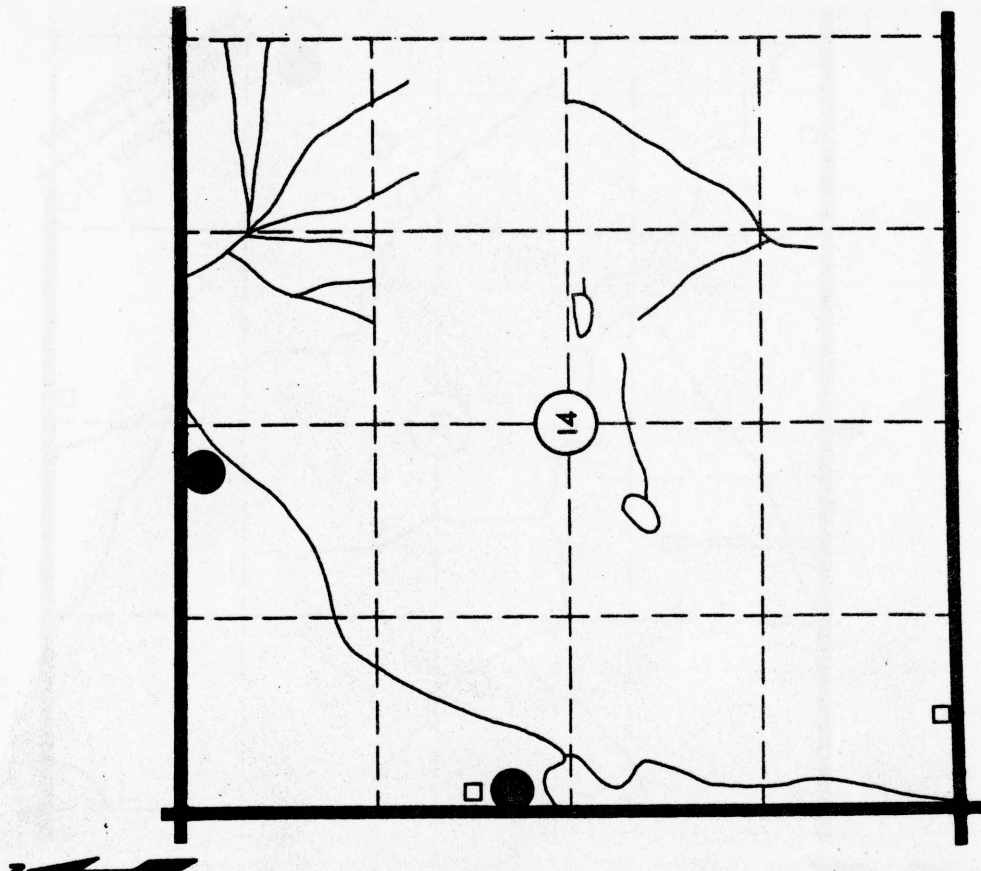
Site No. Es-45
EP
 Date _____
 Material Limestone county Bourbon
 Location SW 1/4 NW 1/4 Sec. 14 Twp. 27S Range 23E
 Owner I. F. Ricketts, Rt. 5, Ft. Scott, Kansas
 address _____
 Nature of Deposit _____ Accessibility _____ Site Located on Plate V
 Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

Test Hole	Material at bottom of hole	Depth of overburden	Depth of Material	Percent Retained						Wash 200	G.F.	L.L.	P.I.
				1 1/2	3/4	3/8	1/4	16	30				

CORRELATION DATA

Geological Age Pennsylvanian
 Geological Source Pawnee Ls. Fm. - Myrick Station Ls. Mbr.
 Material Similar To _____
 Specific Gravity (Sat.) _____ (Dry) _____
 Los Angeles Wear _____
 Absorption _____ Soundness _____
 Wt. Cu.Ft. _____ Str. Ratio _____
 Remarks _____



Scale: 1" = 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.

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

Antecedent stream: A stream that maintains its original course despite subsequent uplift or deformation.

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

Argillaceous: Containing an appreciable amount of clay.

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

Brachiopod: Shelled animal of marine origin, having two unequal shells or valves, each of which are normally bilaterally symmetrical.

Chat: Finely 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.

Concretion: Irregularly shaped nodules that occur in sedimentary rocks which form gradually by precipitation, around a definite nucleus.

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

Crinoid columns: Fossils of an ancient group of sea-lily type animals belonging to the phylum *Echinodermata*.

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

Detritus: Loose rock and mineral material that is worn off or removed directly by mechanical means, as by disintegration or abrasion; esp. fragmental material, such as sand, silt, and clay, derived from older rocks and moved from its place of origin.

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

Facies change: A lateral or vertical variation in the lithologic or paleontologic characteristics of sedimentary deposits caused by a change in the depositional environment.

Fine sand: An aggregate of consolidated minerals or rock particles, the dimensions of which are not 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.

Flaggy: Descriptive of a sedimentary rock that splits into layers from 1 cm to 5 cm in thickness.

Fluvial deposit: A sedimentary deposit consisting of material transported by, suspended in, or laid down by a river or stream.

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.

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 structure: The attitude of the rock units (i.e., whether they are horizontal or tilted).

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 an unconsolidated deposit.

Gradation factor: The value obtained by adding the percentages of material retained on the 1½", ¾", 3/8", 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.

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

Landform: Any physical, recognizable form or feature of the earth's surface, having a characteristic shape, and produced by natural causes; it includes major forms such as plain, plateau, mountain, hill, valley, slope, esker, and dune.

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 a 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.

Lithographic limestone: A very fine-grained, dense, light-colored limestone.

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.

Micaceous: Consisting of, containing, or pertaining to mica.

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.

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.

Spoil: Waste material removed in mining, quarrying or excavating.

Stereoscopic vision: Three-dimensional vision by means of viewing identical images on two photographs exposed from equal distance but at different angles.

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.

Talus: Rock fragments derived from and lying at the base of a steep, rocky slope.

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.

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