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FIELD NOTES Illinois State Geological Survey

NE/4 SE/4 SW/4 Sec. 9, TIOS, R4E, Section 1, Peabody, Will Scarlet Mine near east end of pit. Interval above Dekoven Coal. Described from base up. Contact with coal sharp. Thickness Top above Coal Sandstone - medium gray, slightly micaceous, friable, cemented with white, non-calcareous mineral (clay?) becomes more micaceous upward and slightly lighter colored, contains lenses and pods of partly coalified, pyritized plant material, sandstone doesn't seem to be pyritic, one pyritized stem 13*11" above coal, and a parting at 23" of coaly plant debris and mica and reddish mineral, up to I inch thick, but pinches out about I foot away. Sample #1 - samdstone 10" above coal Sample #2 - pyritized stem Sample #3 - parting at 23" 241 Sandstone - similar to underlying unit, light to medium gray, micaceous, friable, occasional 6161 4 161 coaly streaks along bedding. Sample #4 - 41 above base At top is zone of weakness - soft partly unconsolidated sandstone Sandstone - as below, continues to have occasional 8161 coaly lenses and stringers, non-calcareous 21 Sample #5 - 15# above base Sandstone - light gray, lighter than below, containss more white clay, slightly smaller grained than below, 9181 1121 micaceous, dark minerals rare. q e d By_ H. Gluskoter Date 1969 C b R. Peppers a Quadrangle Crab Orchard (7.5) 8 7 654321 County____Williamson Sec. 9 T 105 R 4F

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(Page 2) Sandstone - light gray, dense, massiv	Thickness (e,	Top above Coa
some calcareous cement		
Sample #6 - 18# above base	2*10*	12161
Sandstone - light to medium grav. non	- Castle att	
calcareous, thinly bedded, with thi	n	
dark laminae, very micaceous on som	e	and the second
of the bedding	411	12110#
Sandstone - light to medium gray, non	- 1200	
calcareous, micaceous, thin micaceo	us	
beds every few inches, not thin bed	Ided	
as below, fairly hard, clay cement	2*2*	15'0"
Sample #7 - 20" above base	Alter for the	A. The
Interbedded sandstone, siltstone, sha	le as	
up to 4" thick beds, light gray sil	tstone	E A CONTRACT
interbedded with medium to light gr	ray shale,	No. 108
siltstone and shale very micaceous,	no	17408
visible pyrite.	2.0.	17.0"
Sample #8 - representative of entir	re unit	11 11 19
Sandstone - similar to beneath silty	shale	
zone	10**	17*10*
Siltstone and shale - very micaceous,		1.1.1.1.5
non-calcareous	5"	1813"
Sandstone - rather massive, light gra	y,	
micaceous, non-calcareous, medium		
grained		
top of high wall and at base of ti	11 1*0*	1913"
Sample #9		
Sample #10 - about 150 * east of Sec	ction I	
	and the second	
	10/0	
R. Gluskoter Date	1969	
P. Longo and		
R. Peppers	P	



FIELD NOTES Illinois State Geological Survey

(Page 3)

NE/4 SE/4 SW/4 Sec. 9, TIOS, R4E, Section 1

Thickness Top above Coal

2' thick sandstone, siltstone, shale has become more shaley, extremely micaceous, doesn't seem to be pyritic, sample 10 is the shaley portion more shale in top 4' in this part of pit.

at same locality conglomerate directly overlying coal, mist pebbles, siderite? and some pyrite, a few coaly stringers

groundmass well-cemented, calcareous sandstone similar to above

Sample #11

Yokum says Section | more typical

		h g
ByH. Gluskoter	Date 1969	
Quadrangle Crab Orchard	(7.5)	87654321
CountyWilliamson	Sec. 9	<u>T 10S R 4E</u>

FIELD NOTES Illinois State Geological Survey

SE/4 NW/4 NE/4 Sec. 17, TIOS, R4E, Will Scarlet Mine, Section 2, described from Dekoven Coal up. Thickness Top above Coal Shale - dark gray, plastic where wet immediately over coal, pyritic, fine micaceous surfaces, nodular, sideritic? becomes somewhat lighter in color upward, 4 101 nodules more common in top I! Sample IA - I' above coal Shale - medium dark gray with abundant nodules siderite? up to 2" by 1" thick, some nodules pyritic fissile, fine grained, no silt. Sample 2A - 6# from base in nodular zone check nodules for phosphate in part of unit nodules coalesce into beds. 416# 816# Shale - medium gray, contains abundant nodules and flattened lenses of siderite? very micaceous splintery 1216# 410# fracture Sample 3A - 21 above base Sandstone - fine grained, dark gray beds interbedded with light gray coarser sandstone shale grades into sandstone within I ft. thick zone. lower 41 of sandstone similar in color to shale below sandstone much darker than at other end of pit. shaley lenses scattered throughout. Sample 4A - 5' above base no visible pyrite, 7 161 2010# non-calcareous g (Continued on page 2) e d By_ H. Gluskoter Date 1969 C R. Peppers b a Quadrangle_ Crab Orchard (7.5 876 54321 County_Williamson Sec. 9 T 105 R 4E

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FIELD NOTES Illinois State Geological Survey

(Page 2)		
SE/4 NW/4 Sec. 17, TIOS, R4E, Will Sca described from Dekoven Coal up.	rlet Mine,	Section 2,
and the second	Thickness	Top above Coal
Sandstone - dark gray, fine to medium grained, massive, rather micaceous,		
non-calcareous	2 10 11	22 10 11
Sample 5A - 21 above base		-
		10 M 10 10 10 10
Shaley sandstone - dark gray with few light gray laminae, well bedded 2"		S. F. Pater
thick, iron stain, shale bed at top	5"	22 *5*
Sample 6A - is iron stain shale	11/200	Last the second
Siltstone - medium gray, very micaceou relatively massive compared to silty	s, 124	13 36
apparent.	1121	23 17#
Shaley siltstone interbedded with silt	y	A ANTAL D
shale - medium dark gray, very	A Second	A STREET
micaceous, somewhat weathered, iron		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
stain along weathered vertical tract	AI	27 178
	ACR BACK	A JASSAL H
Sample 7A - brown iron stained area		19 Hard
Sample 8A - gray silty shale portion		Ser They may
ACCENT OF A DATE OF A DESCRIPTION OF A D		

		h q f
By H. Gluskoter Date	1969	d c b
Quadrangle Crab Orchard (7.5)		87654321
CountyWilliamson	Sec. 9	T 105 R 4E





Illinois State Geological Survey

April 29, 1971

Upper portion of highwall exposed in the Will Scarlet Mine (peabody)

1 division = 1 foot



Interval to DeKoven Coal is approximately 10' below lower coal.

		h h	
ByM.E. Hopkins, R.B. Nance Date	1971		
CountyWilliamson	Sec. 17	_ 87654321 	