



































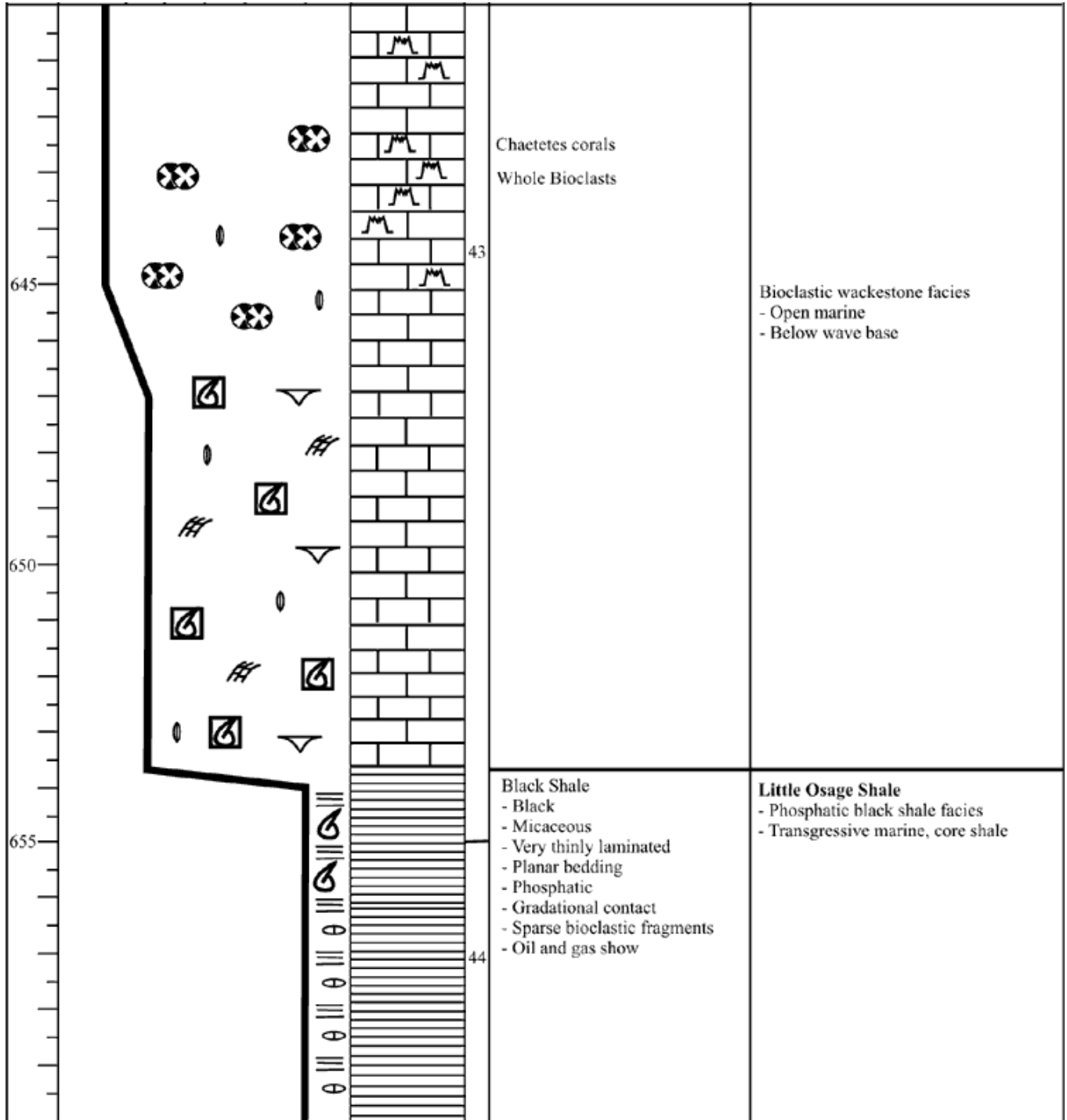


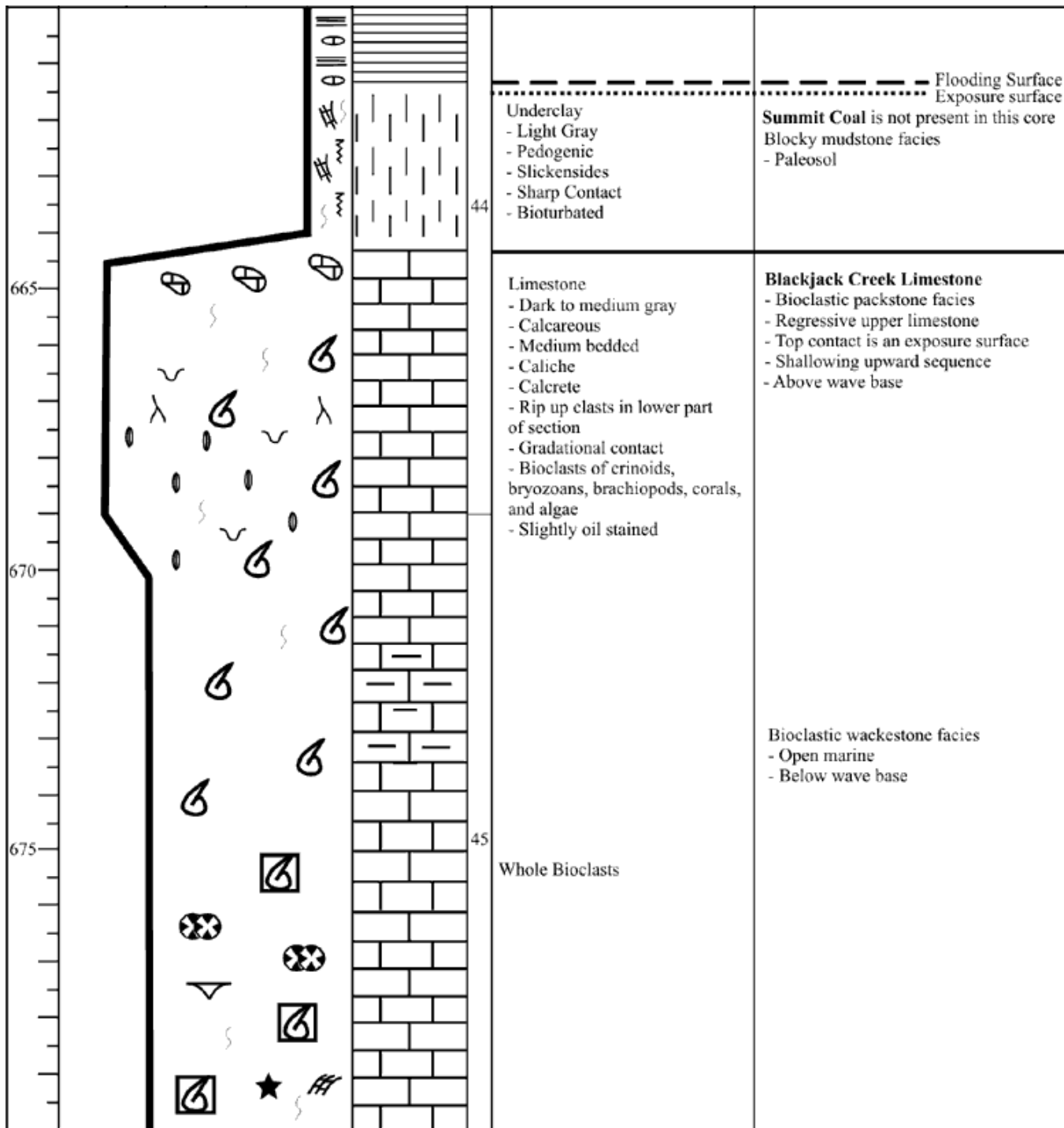
Appendix 1: Descriptions of Core

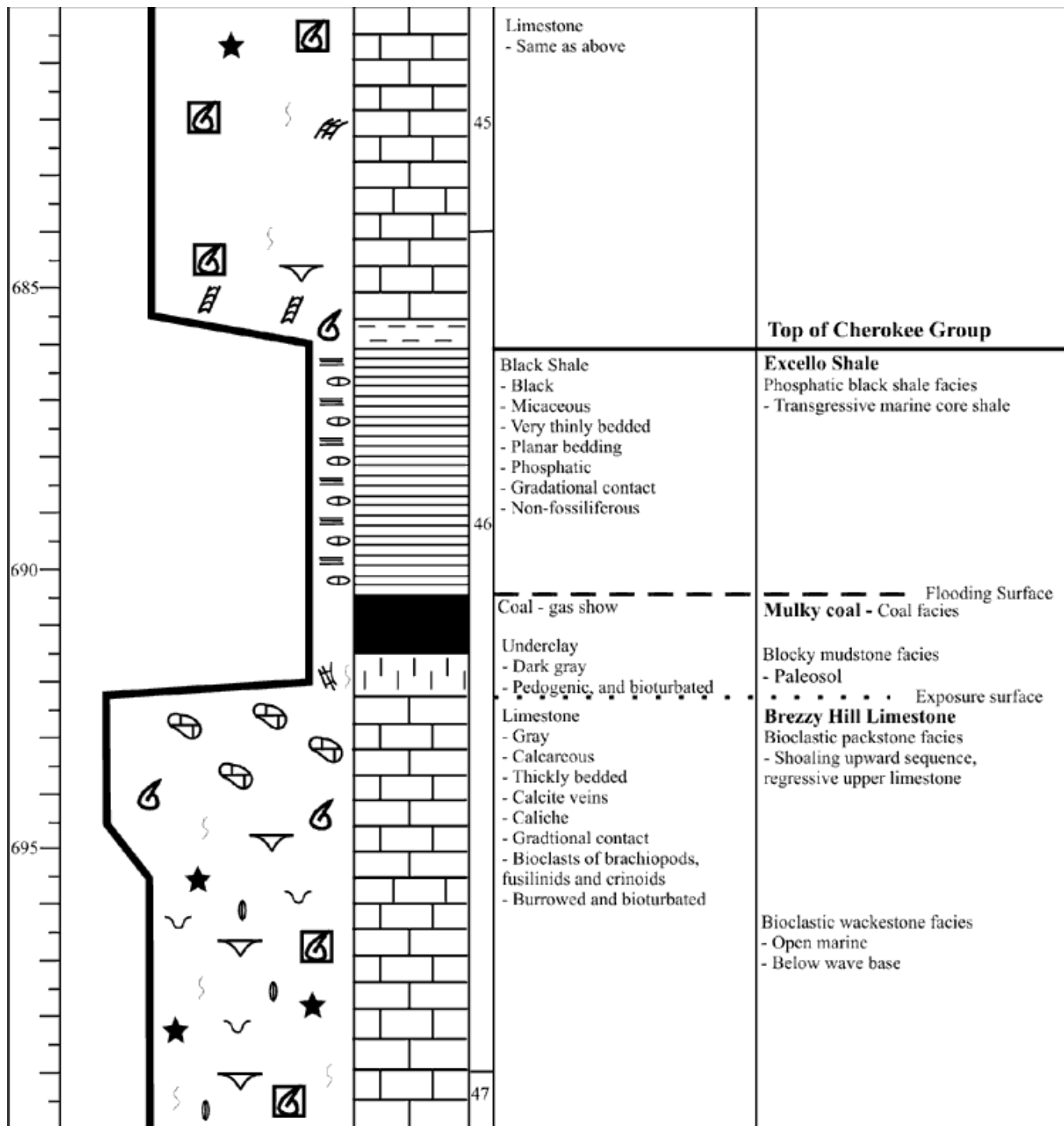
Hinthorn CW#1
 Colt Energy and Kansas Geological Survey
 SE SE SE 14-T32S-R16E

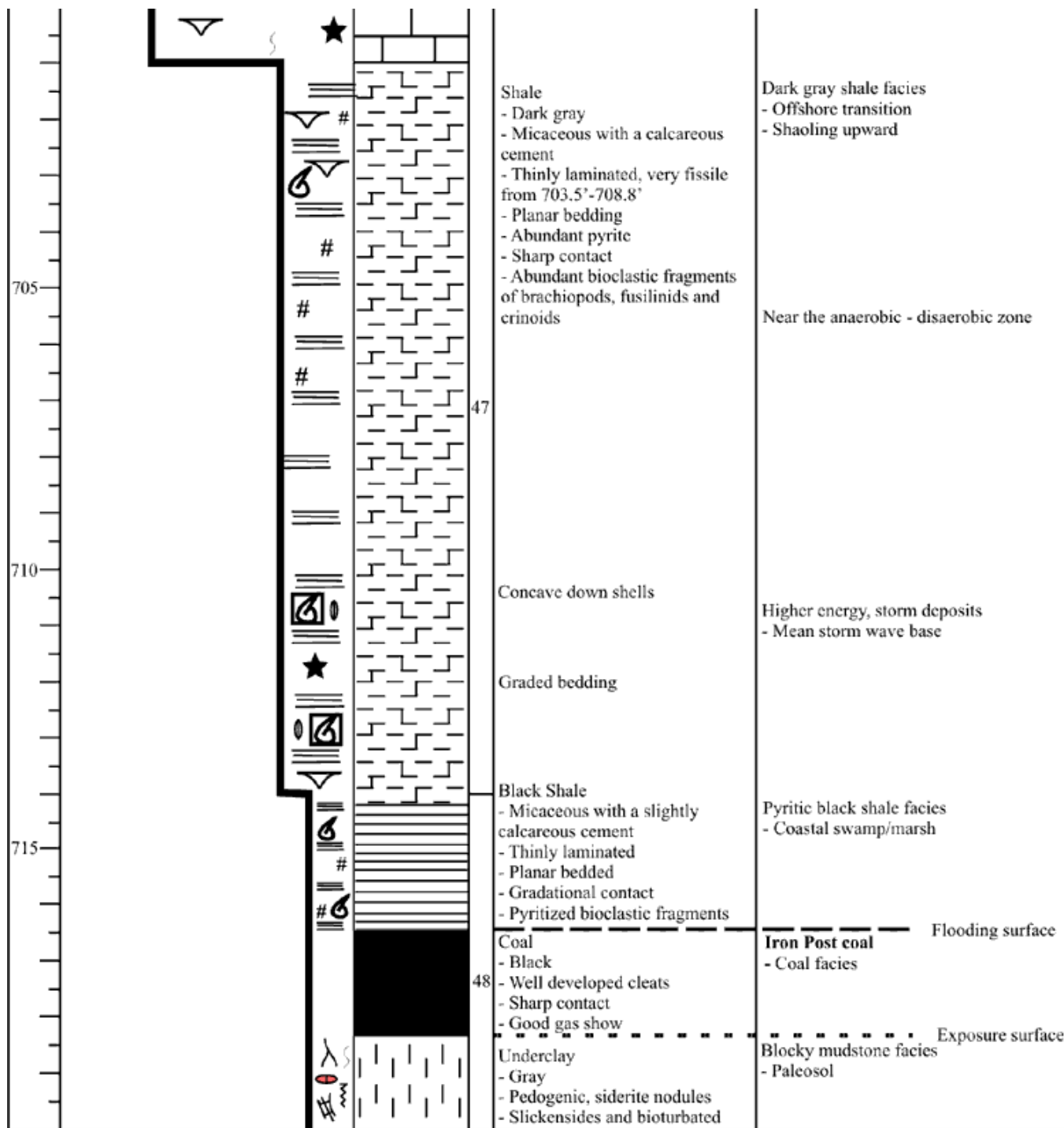
Legend

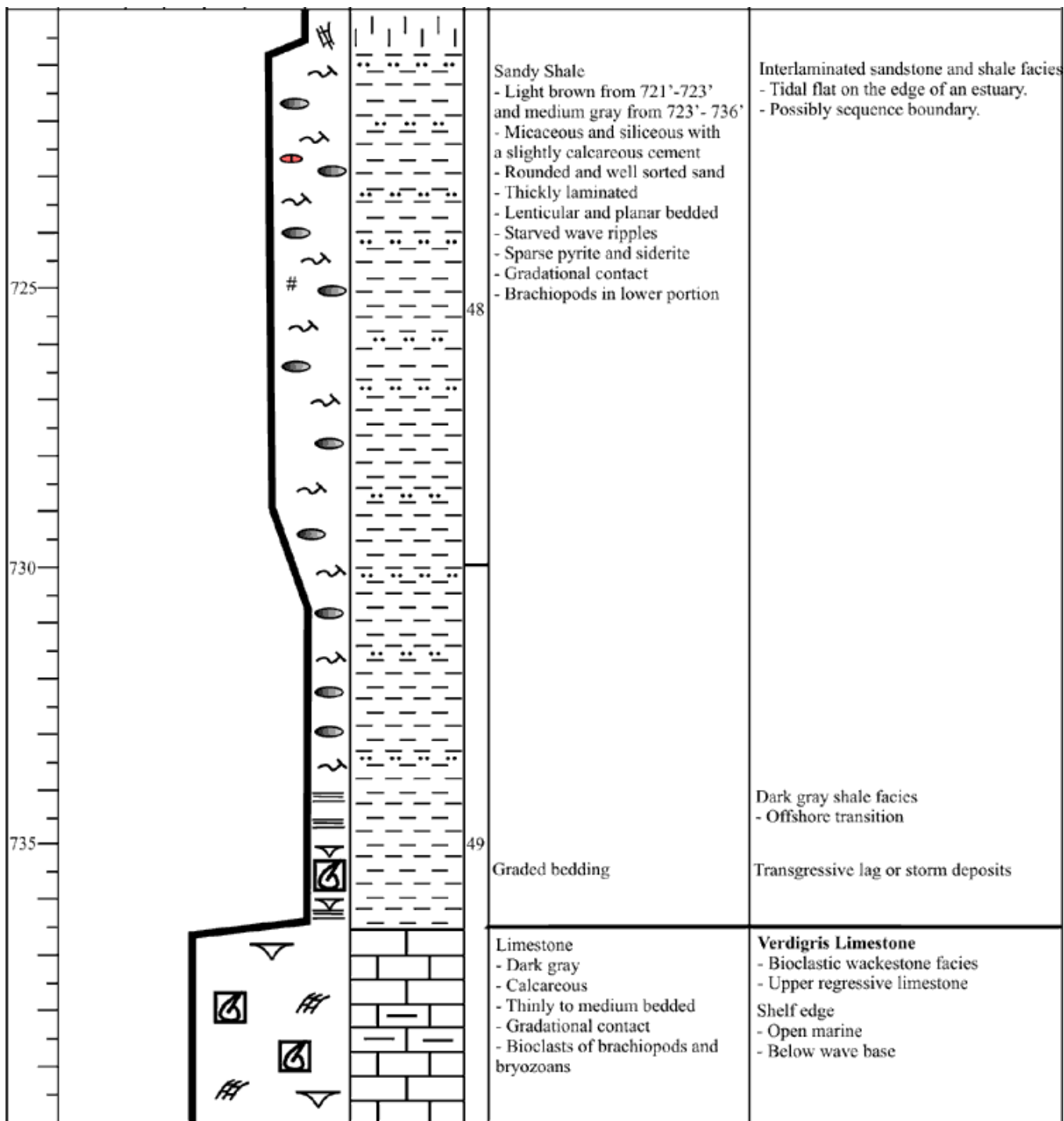
	Coal		Coal Bands
	Black Shale		Syneresis Cracks
	Sandstone		Soft Sediment Def.
	Shale		Stylolite
	Interbedded Sh and Ss		Bioclasts, Whole
	Calcareous Shale		Bioclastic Fragments
	Underclay		Algae
	Limestone		Brachiopods
	Planer Bedding		Bryozoa
	Flaser Bedding		Corals, Colonial
	Wavy Bedding		Crinoids
	Lenticular Bedding		Foraminifera
	Cross-Lamination		Bioturbation
	Wave Ripples		Burrowing
	Siderite Nodules		Caliche
	Phosphatic Nodules		Slickensides
	Pyrite		Ped Structures
	Chert		Rhizoliths

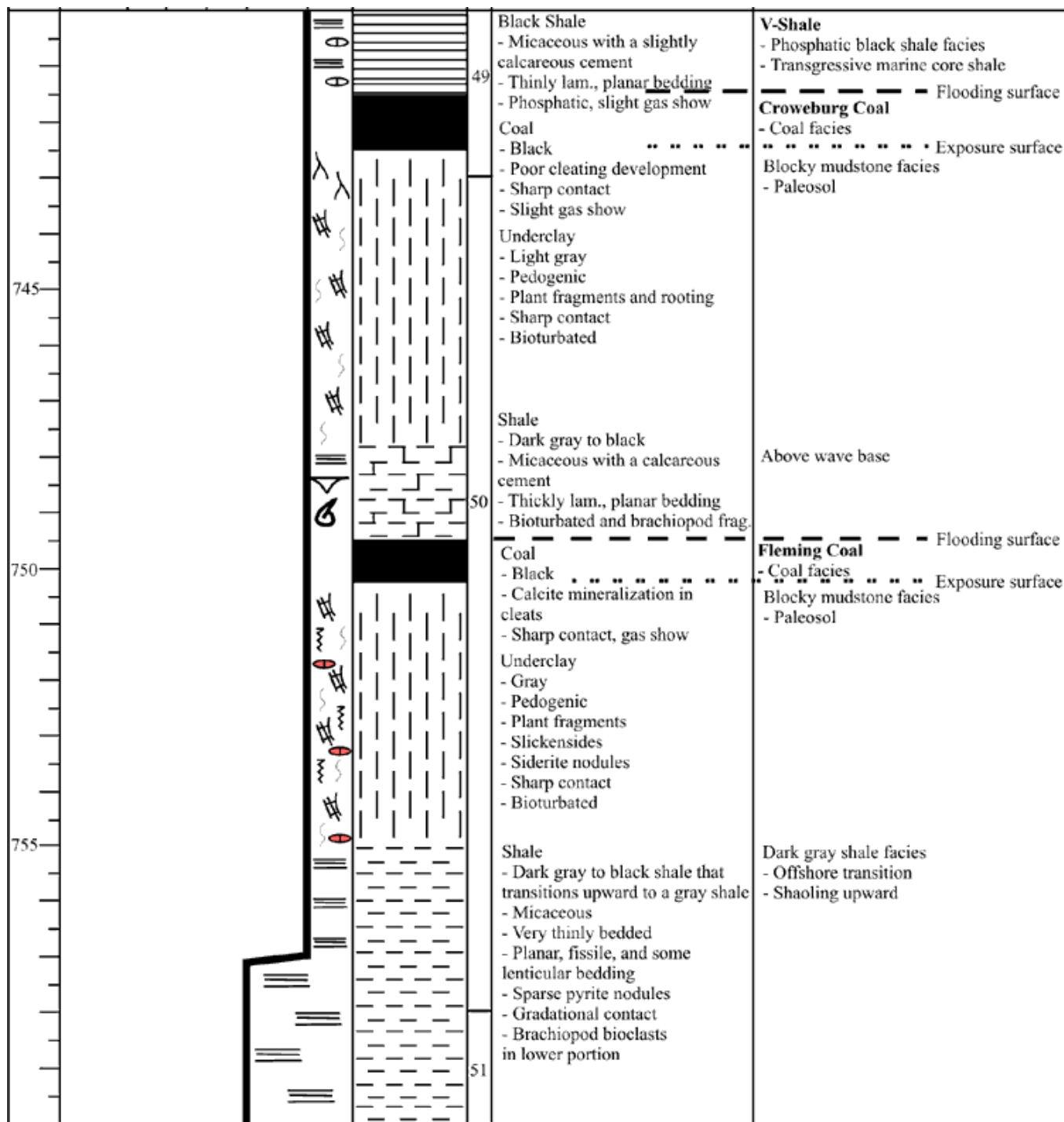


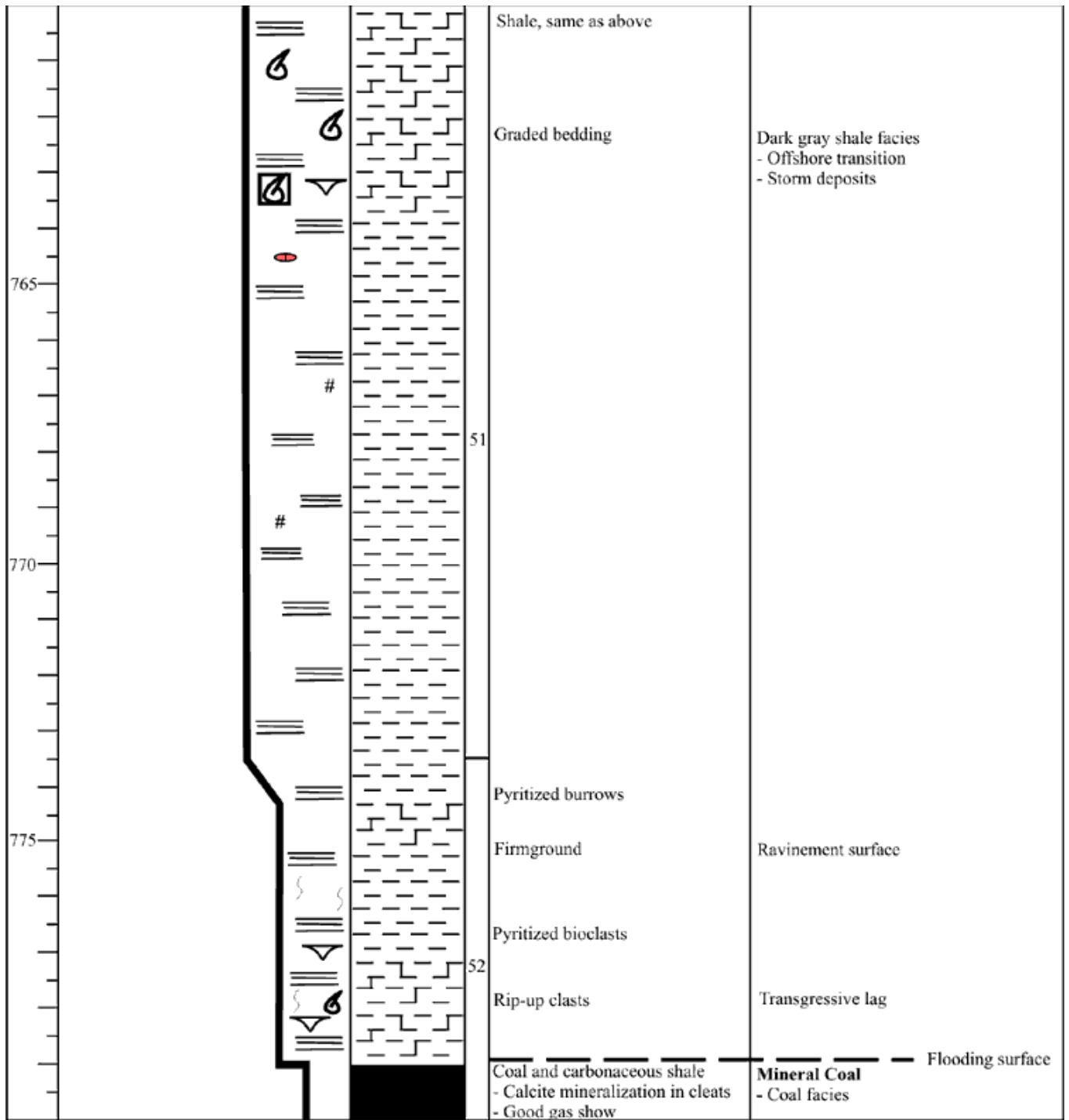


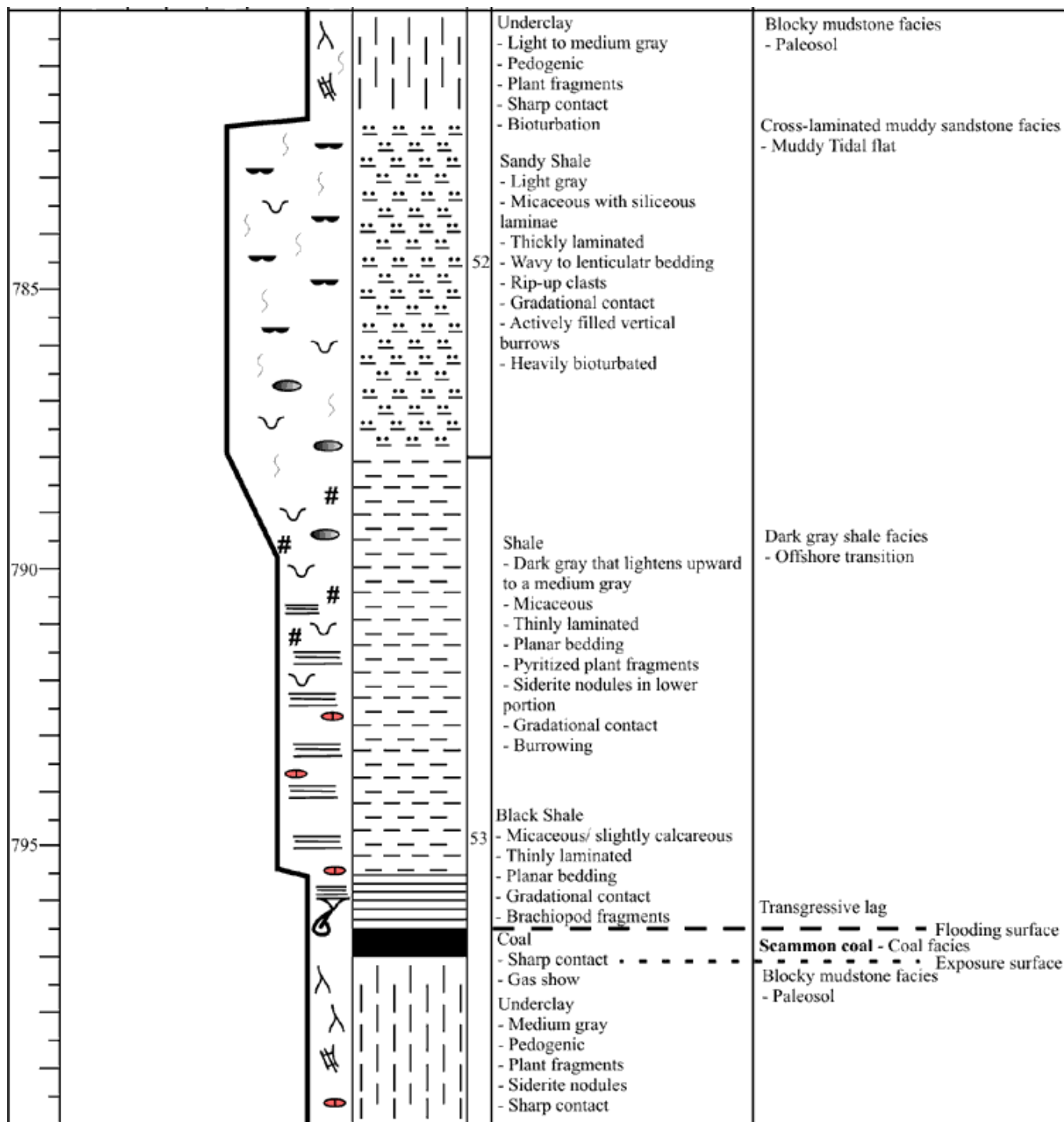


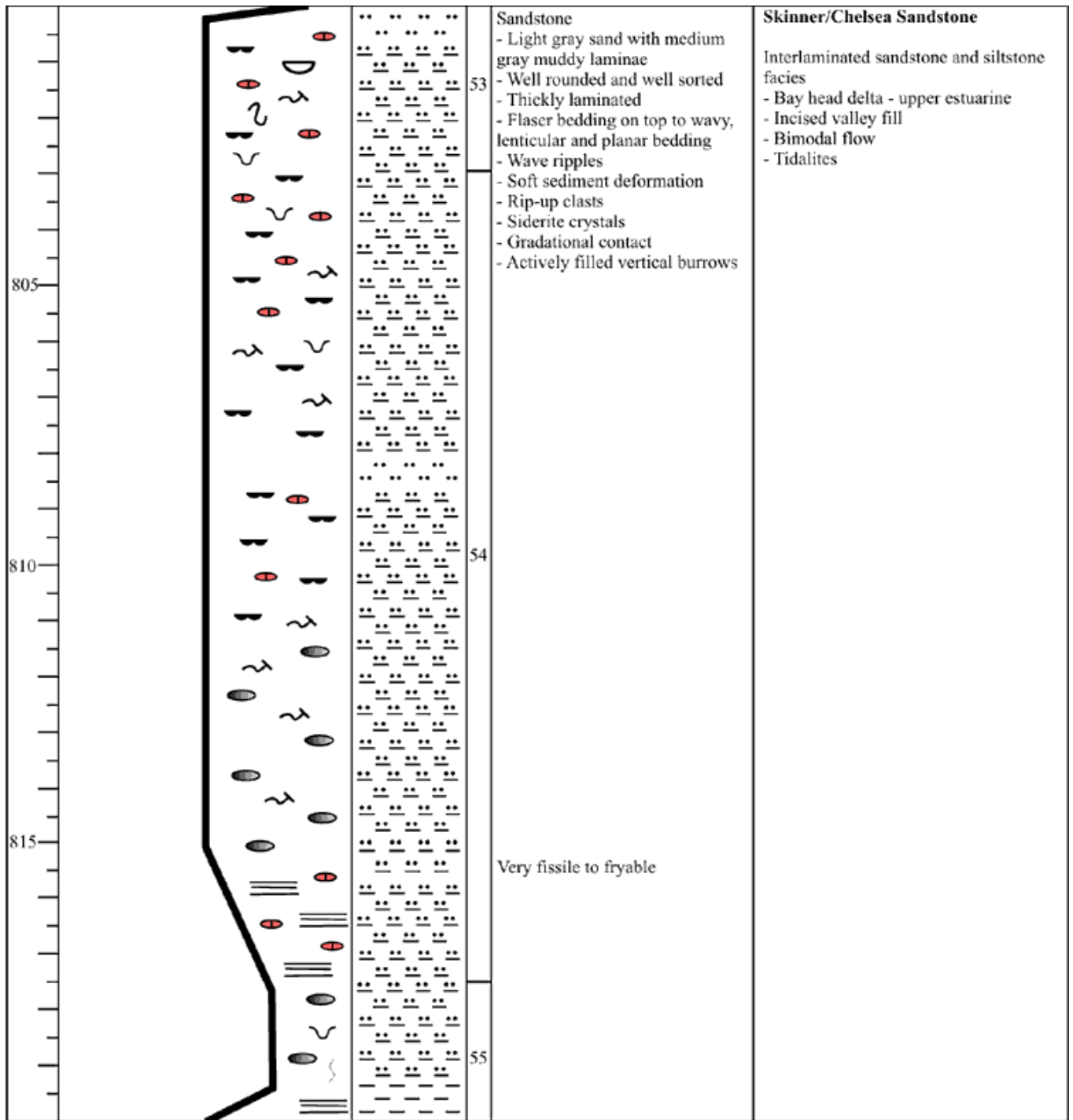


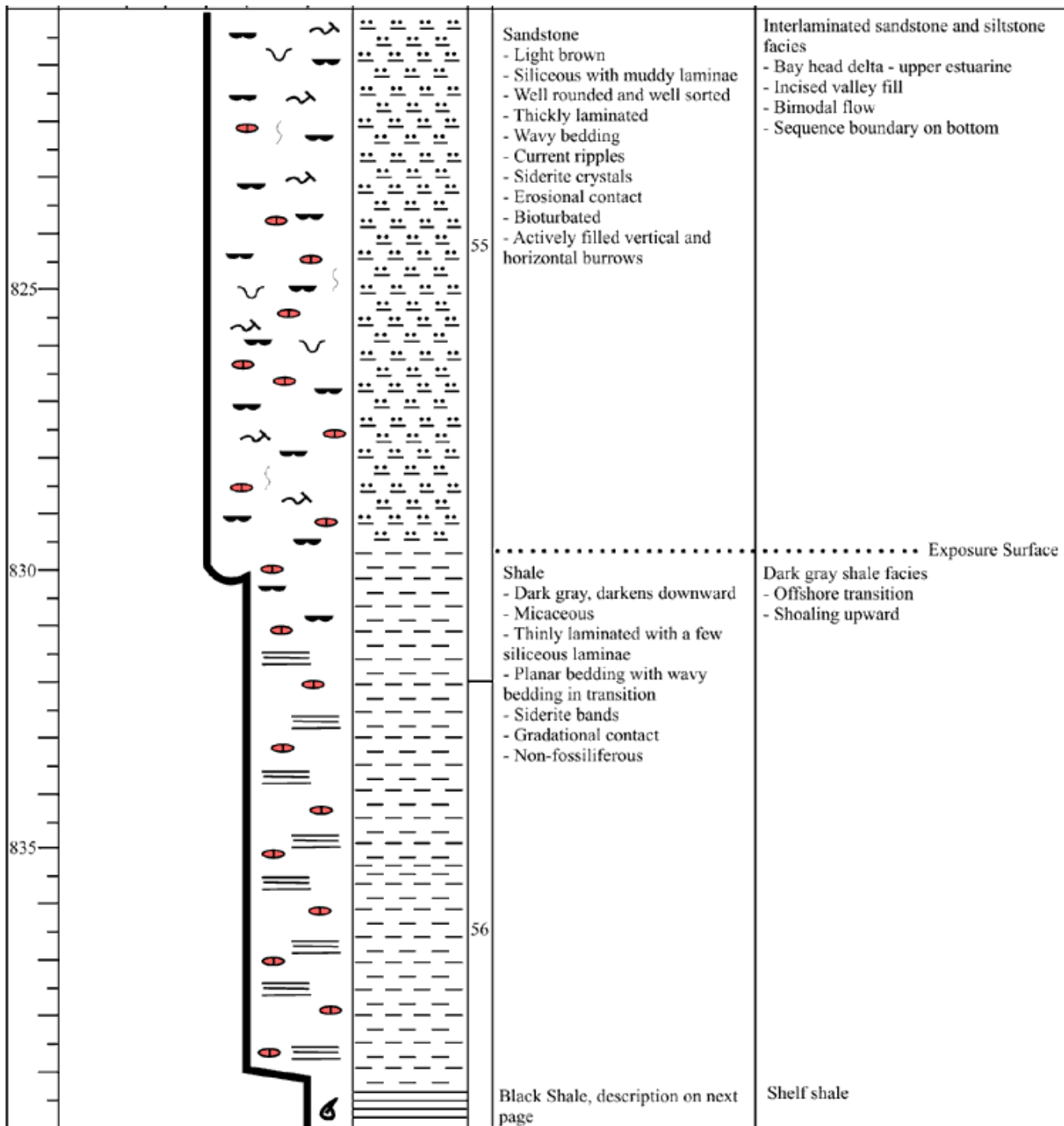


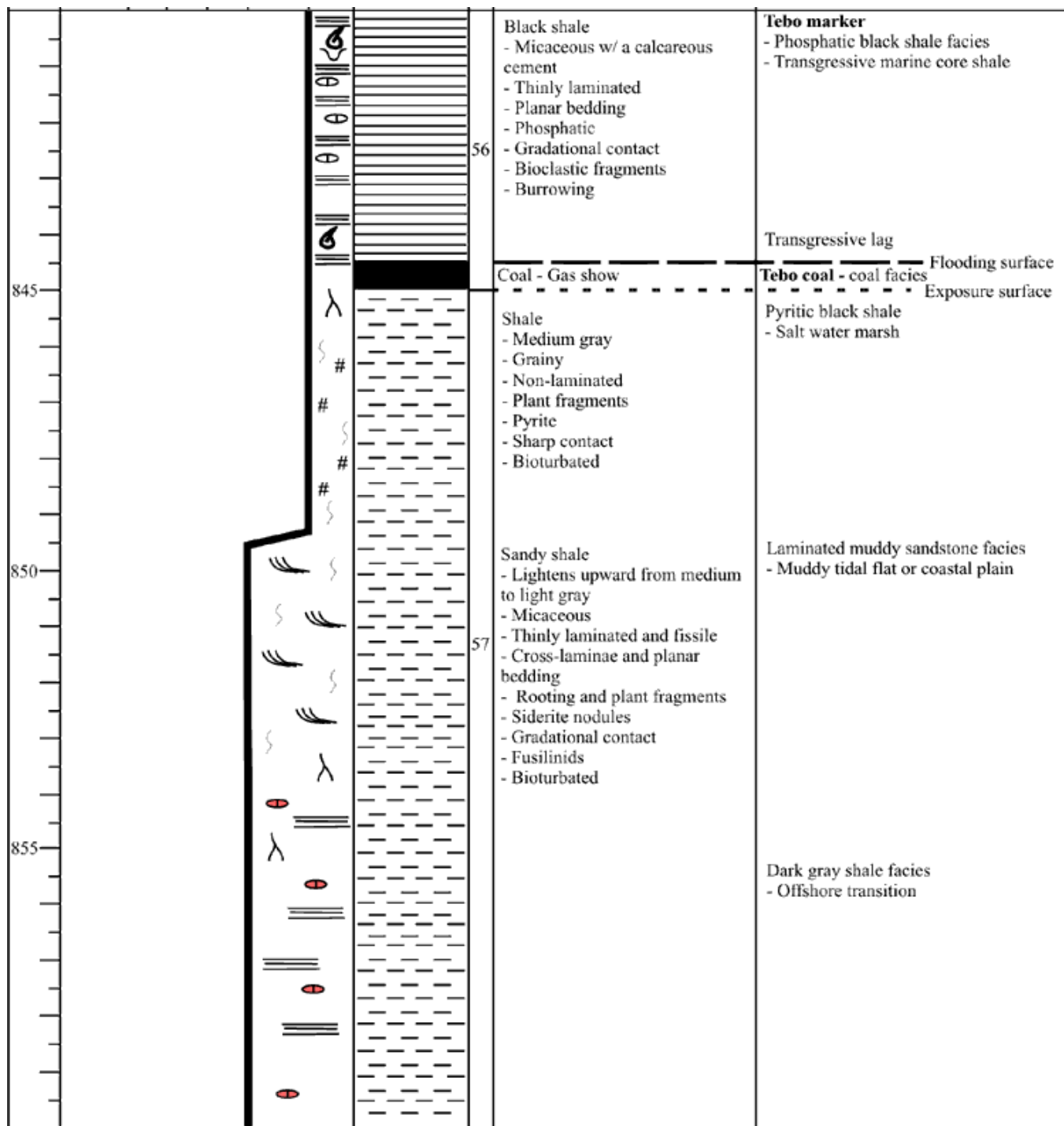




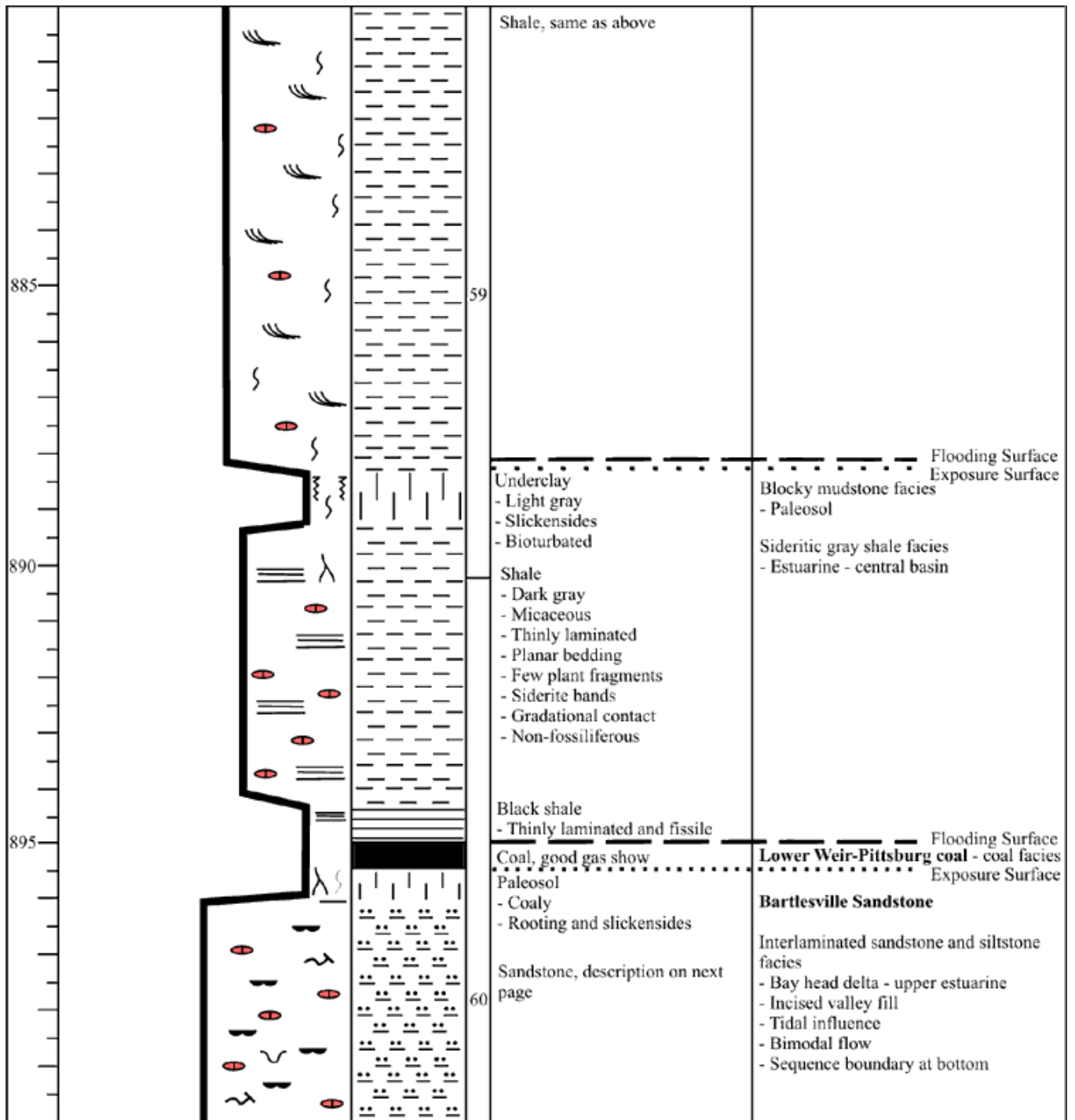


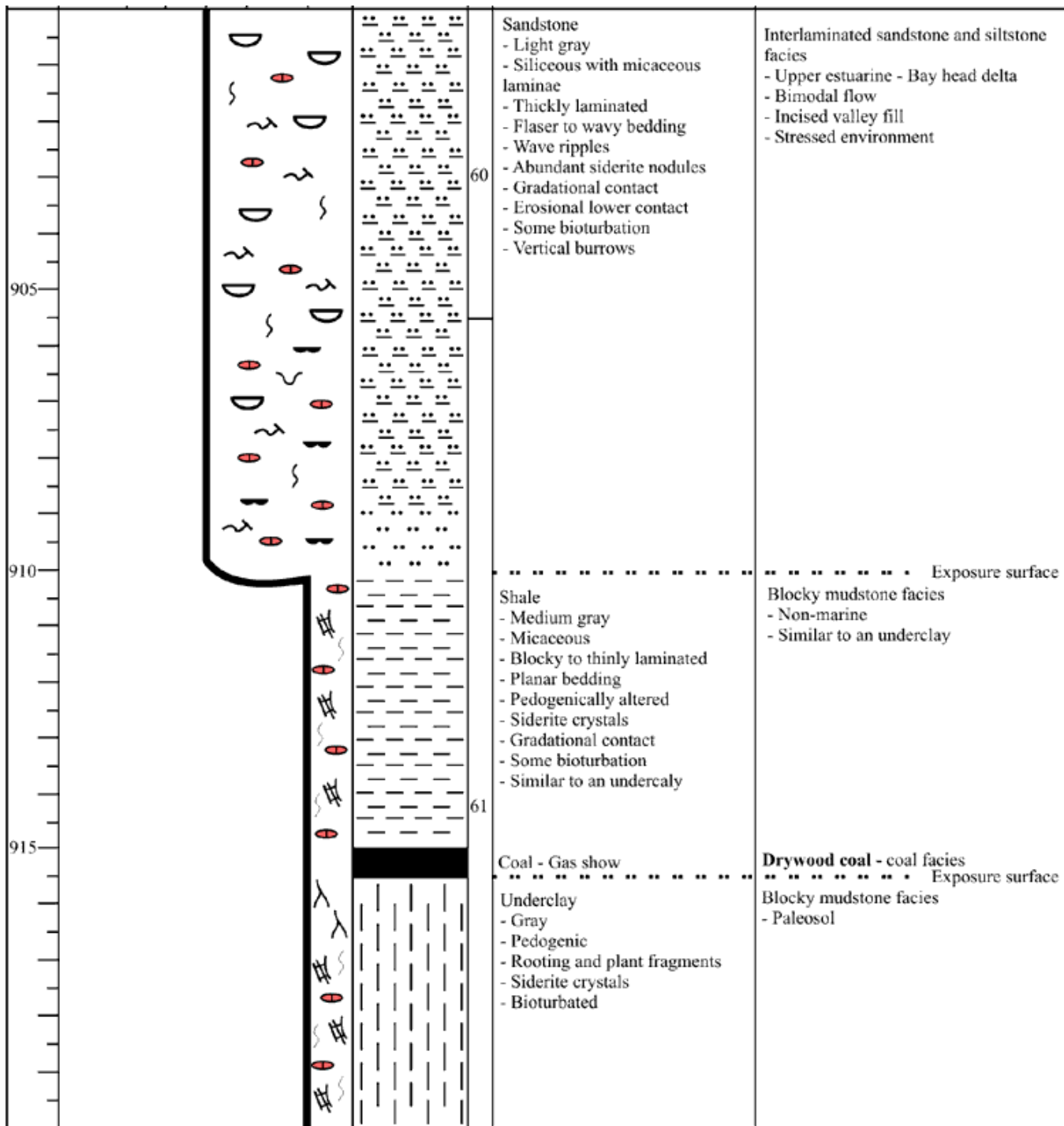


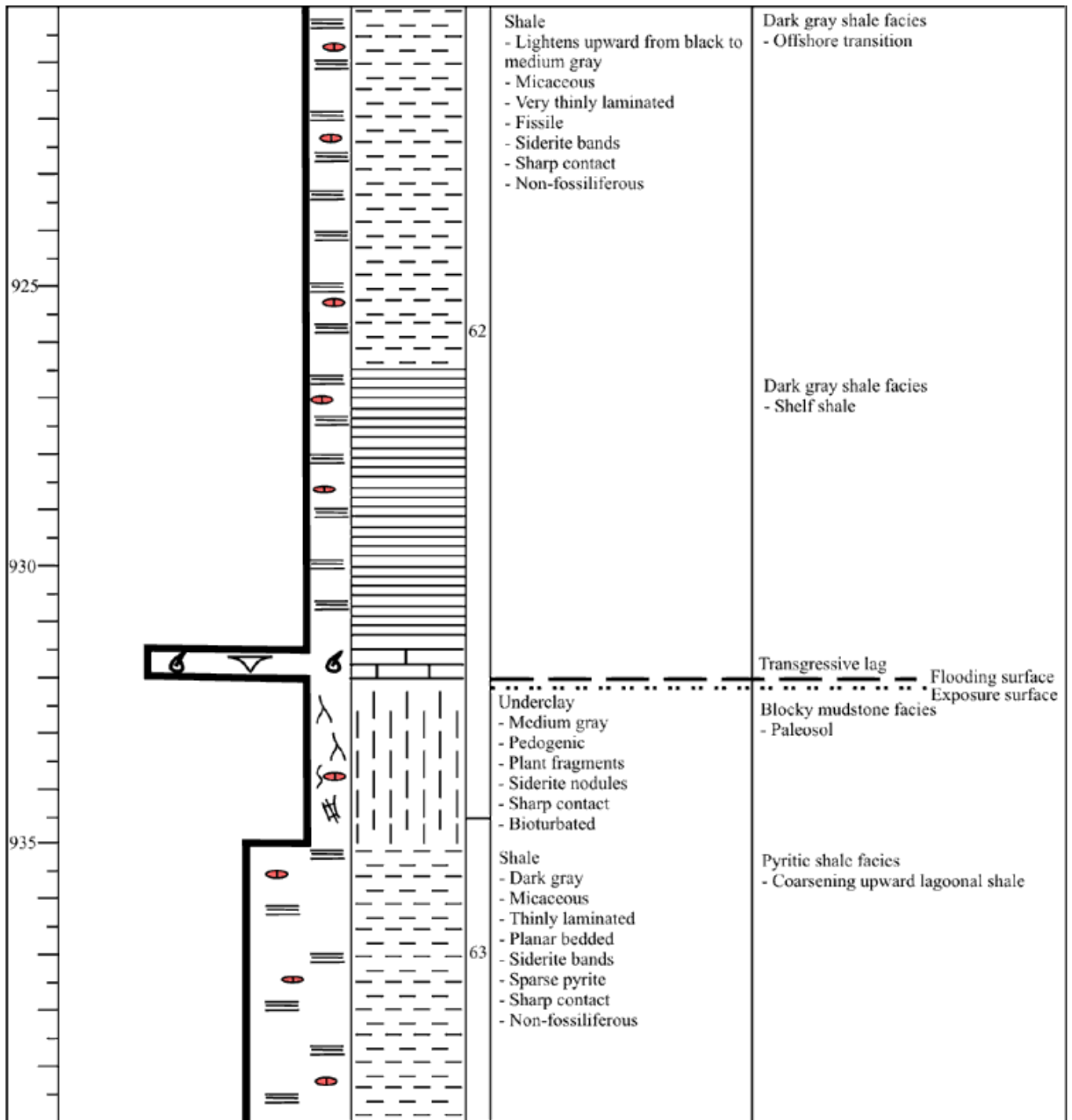


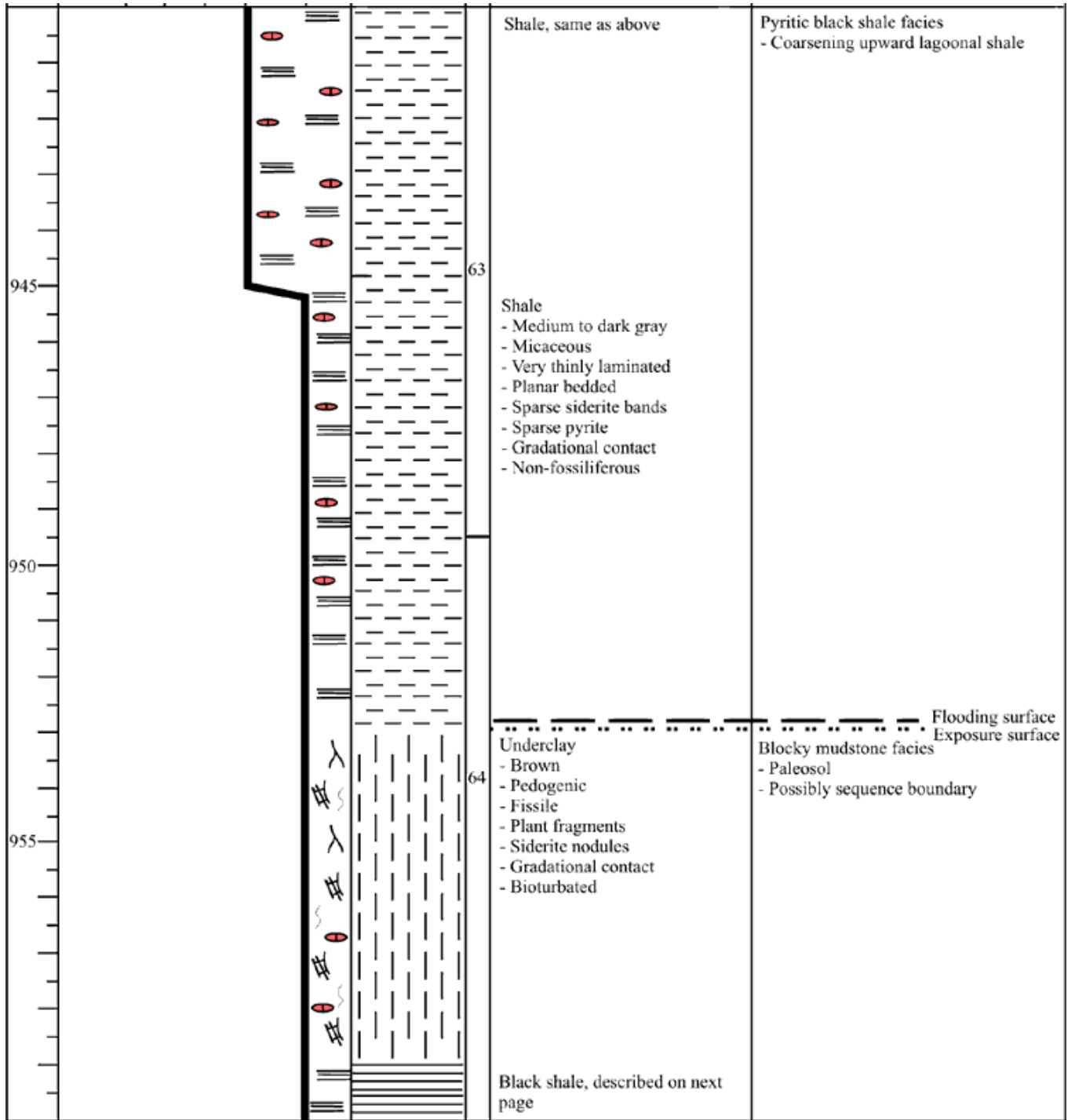


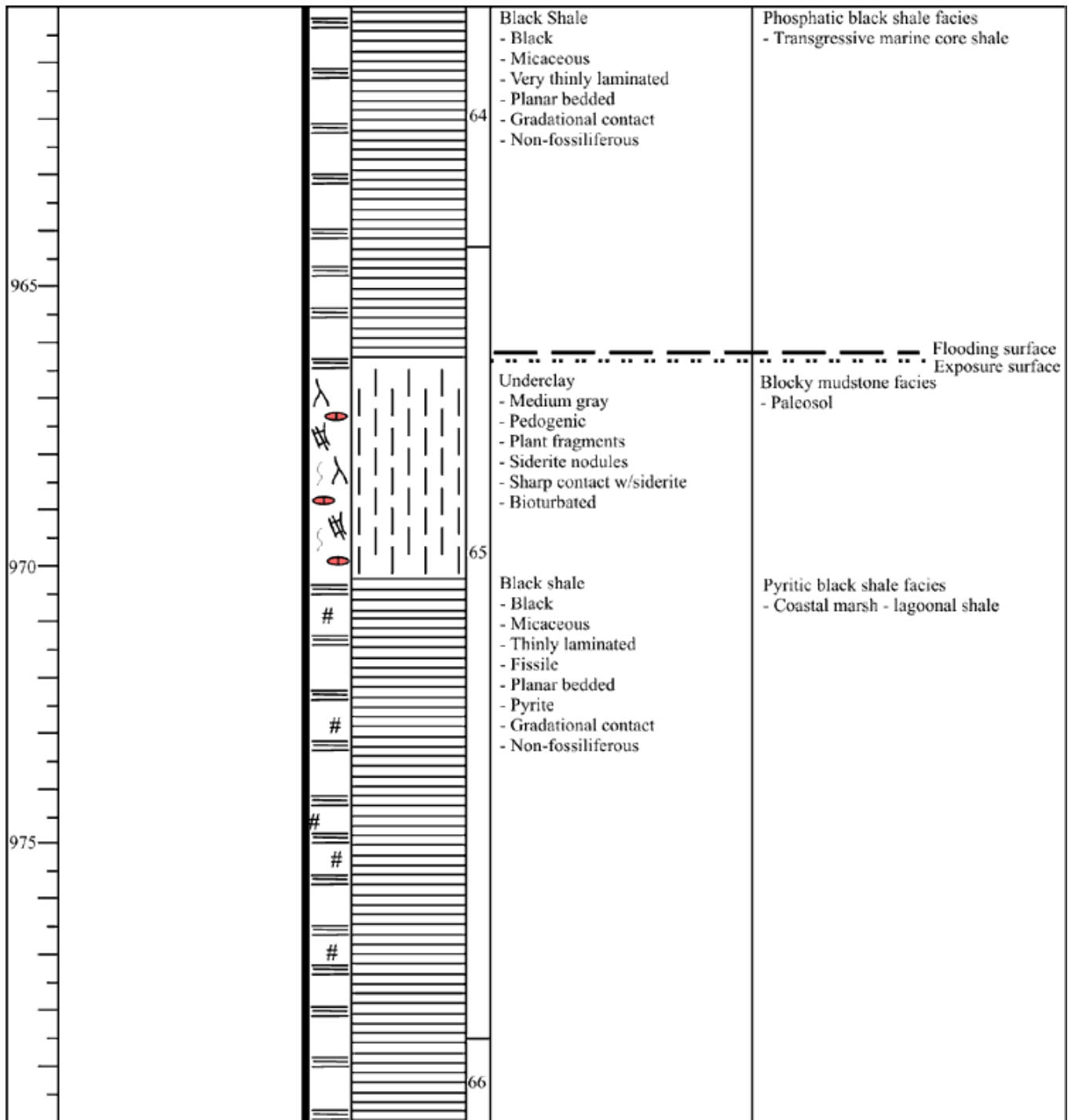
DEPTH (FT)	TEXTURE, GRAIN SIZE AND STRUCTURES						LITHOLOGY	BOX #	DESCRIPTION	REMARKS, INTERPRETATION
	CARBONATES									
	GN	PK	WKE	MUDST	EVAP					
CLASTICS								DATE <u>JUNE 2002</u>	UNIT: Cherokee Group	
Sand										
Gravel	Coarse	Medium	Fine	Silt	Clay					
865								Shale, same as above		
								Black Shale - Micaceous - Diagonally laminated - Planar bedding - Phosphatic - Gradational contact - Gas show	Phosphatic black shale facies - Shelf shale	
							58	Coal - Black - Well developed cleating - Sharp contact - Gas show	----- Flooding Surface Weir-Pittsburg coal - Coal facies - Coastal coal	
870								Underclay - Brown to gray - Fissile - Pedogenic - Rooting and plant fragments - Siderite nodules - Sharp contact - Bioturbated	----- Exposure surface Blocky mudstone facies - Paleosol	
875							59	Sandy shale - Dark gray - Micaceous - Thinly laminated - Cross laminae - Few plant fragments - Siderite nodules - Gradational contact - Bioturbated	Laminated muddy sandstone facies - Muddy tidal flat or coastal plain	

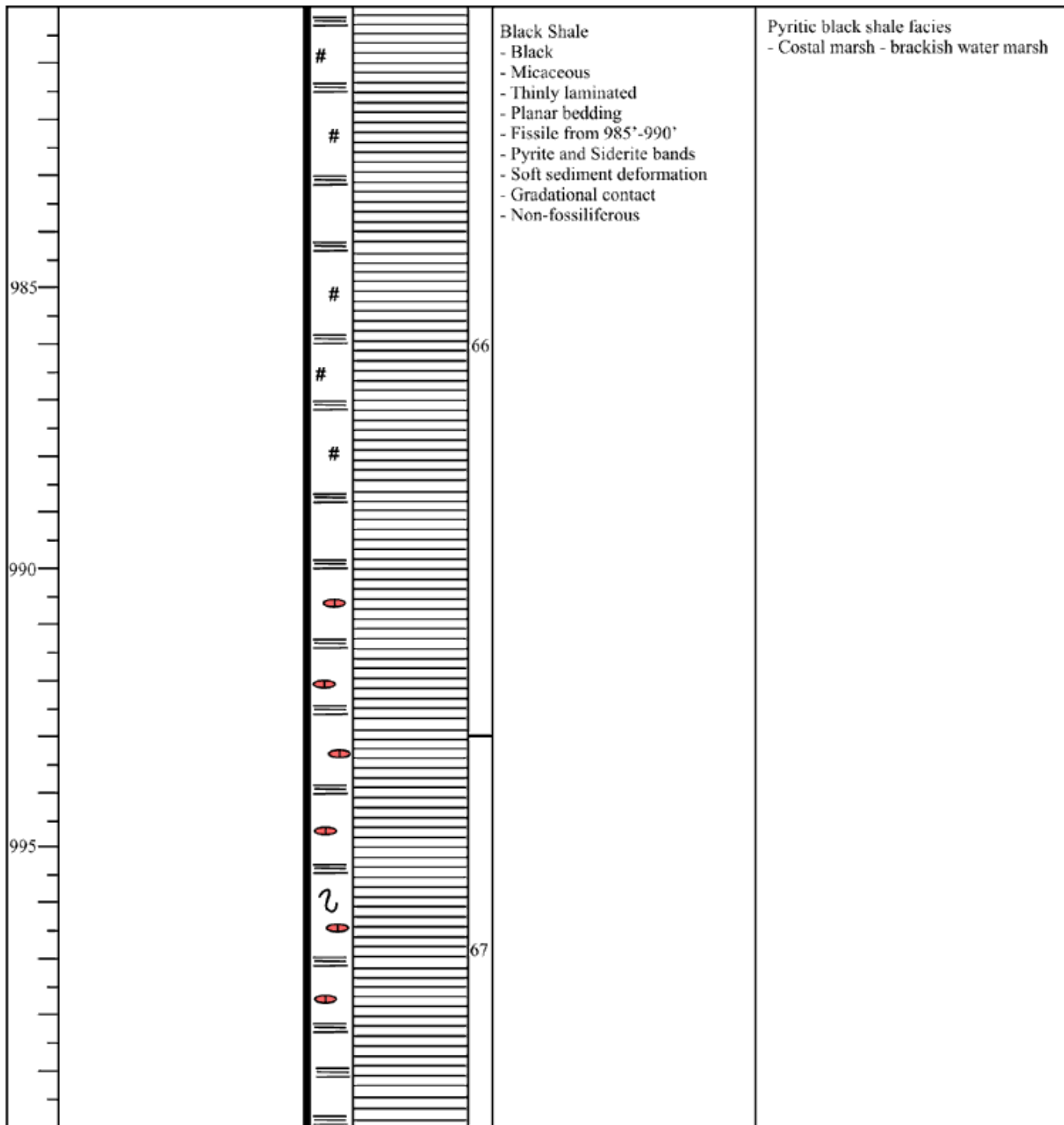


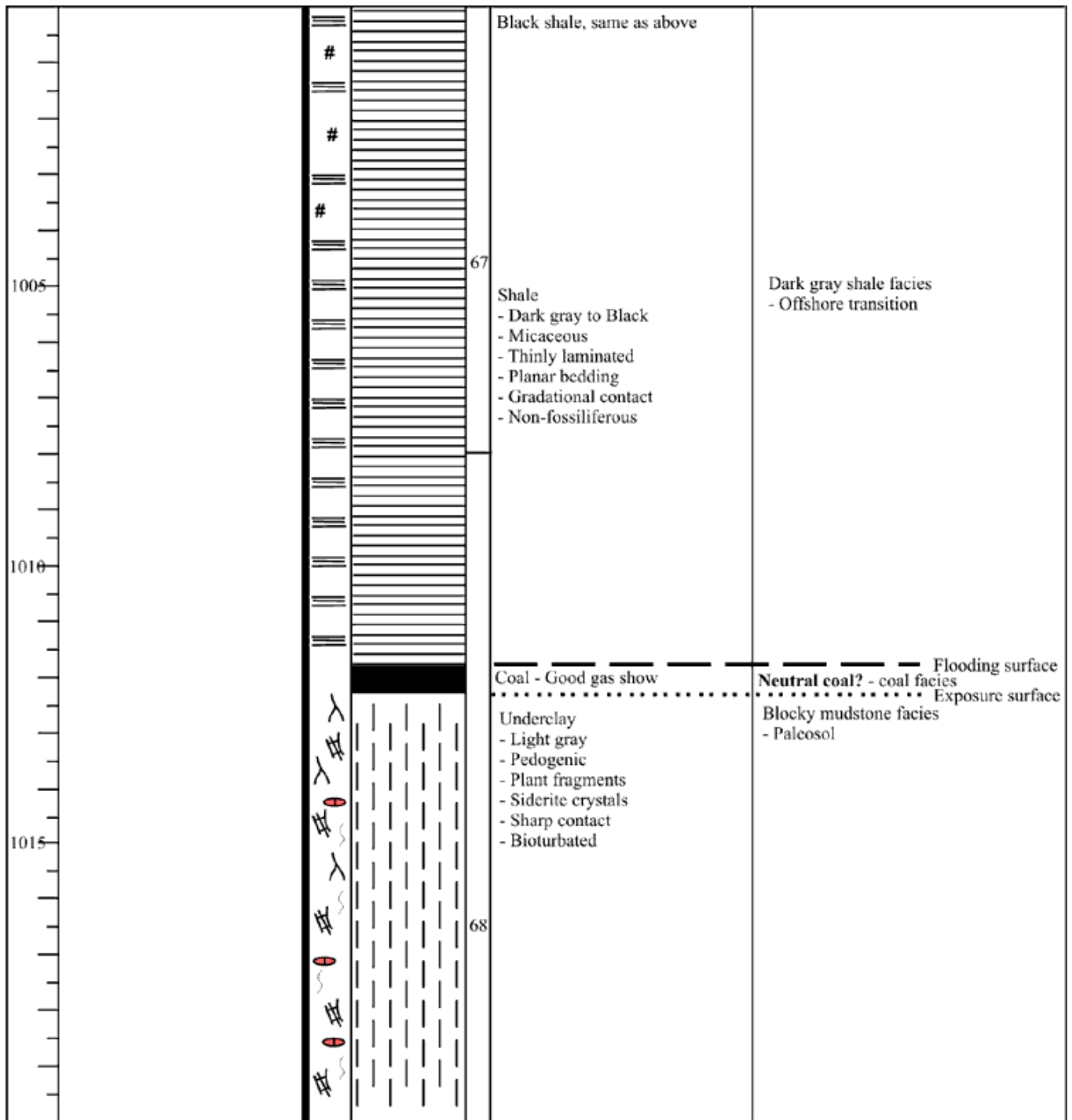


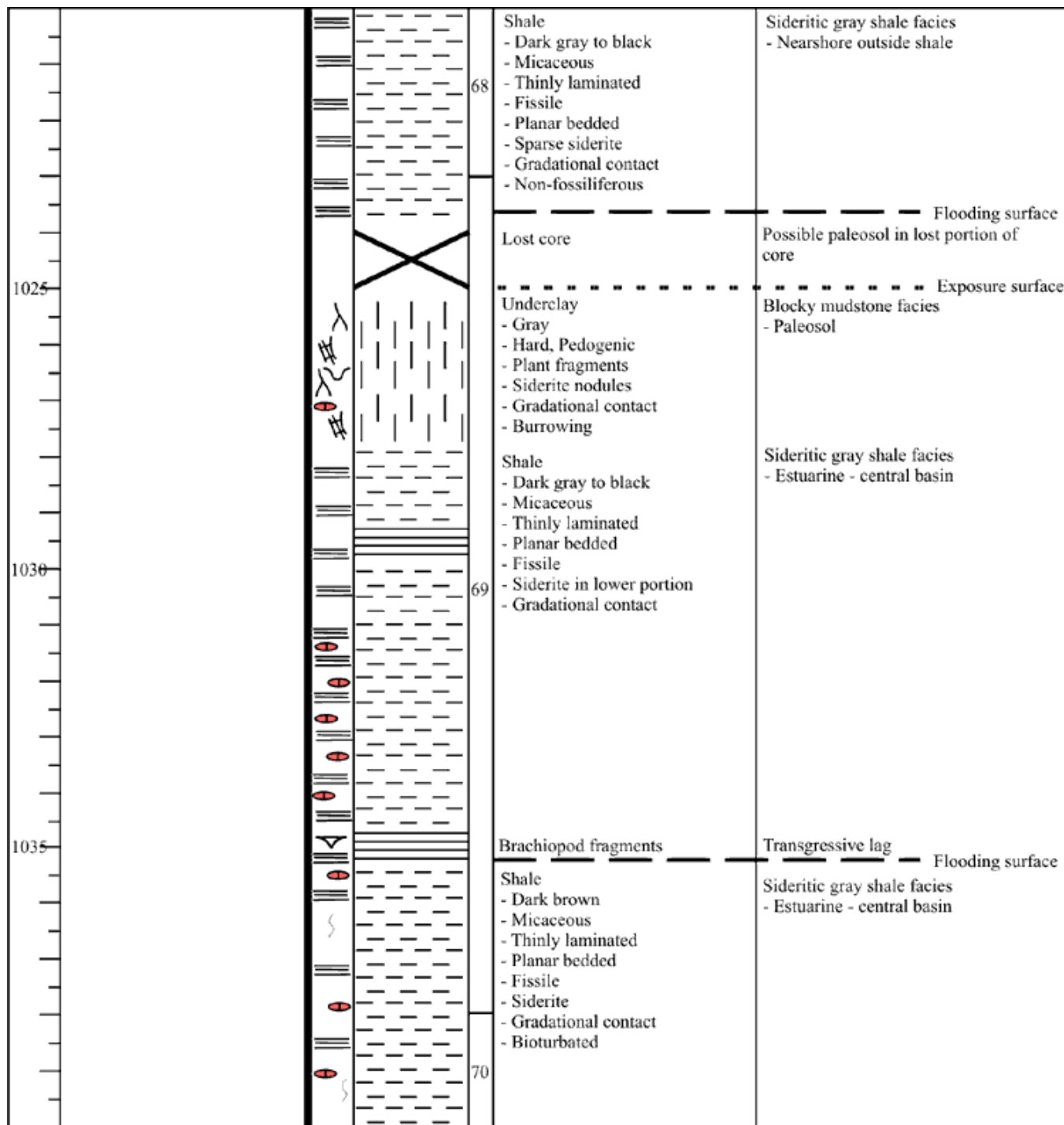


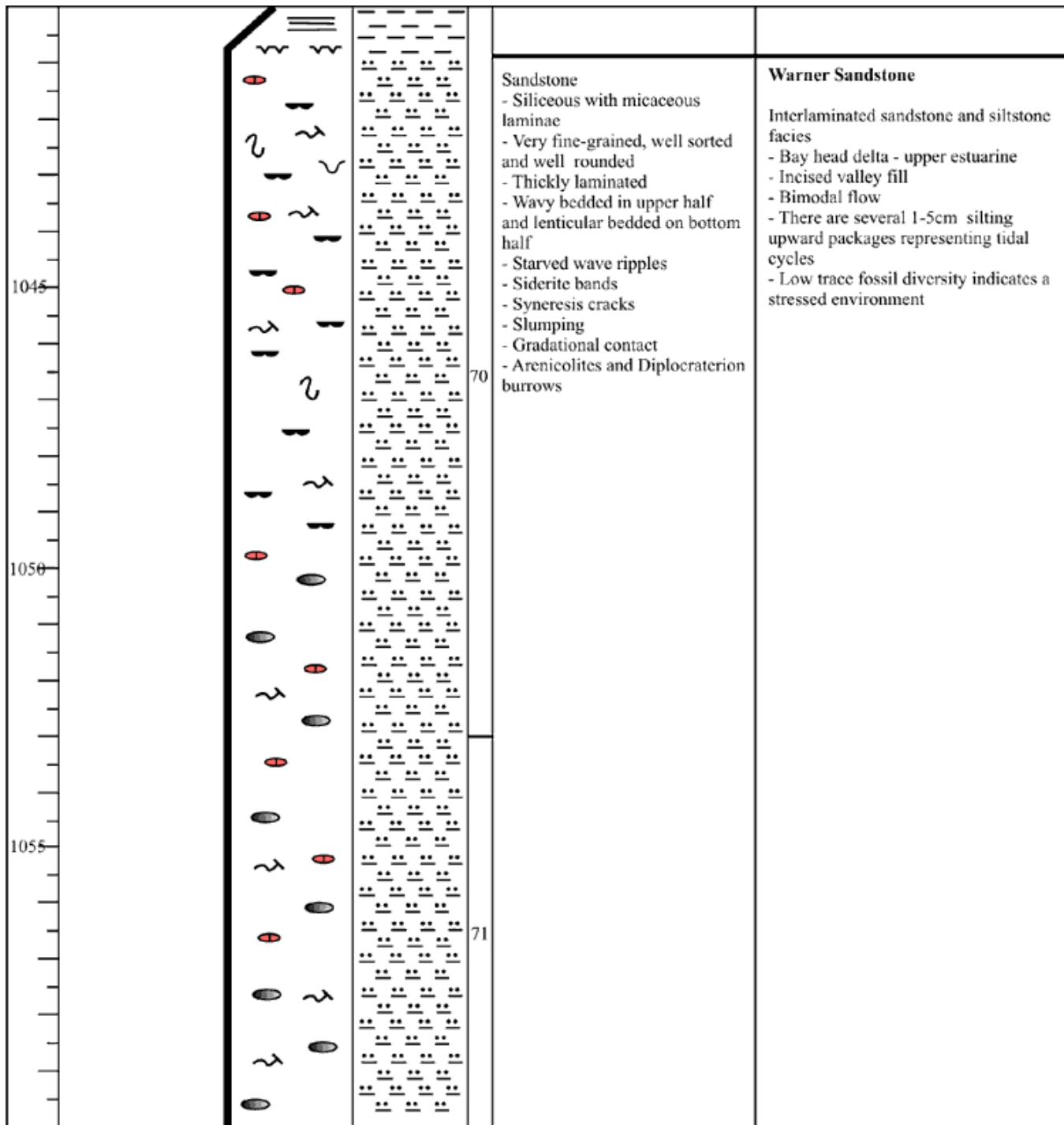


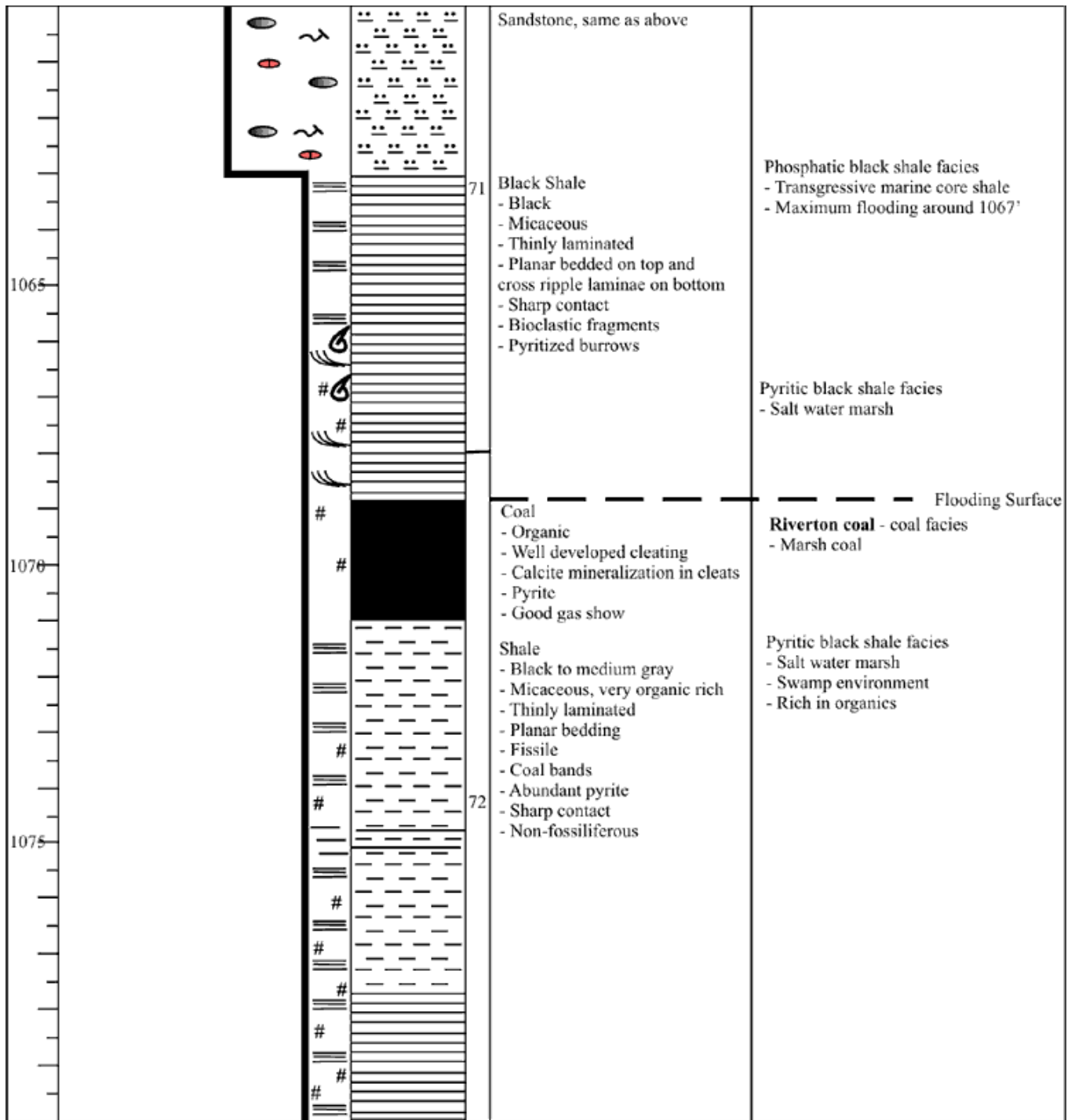


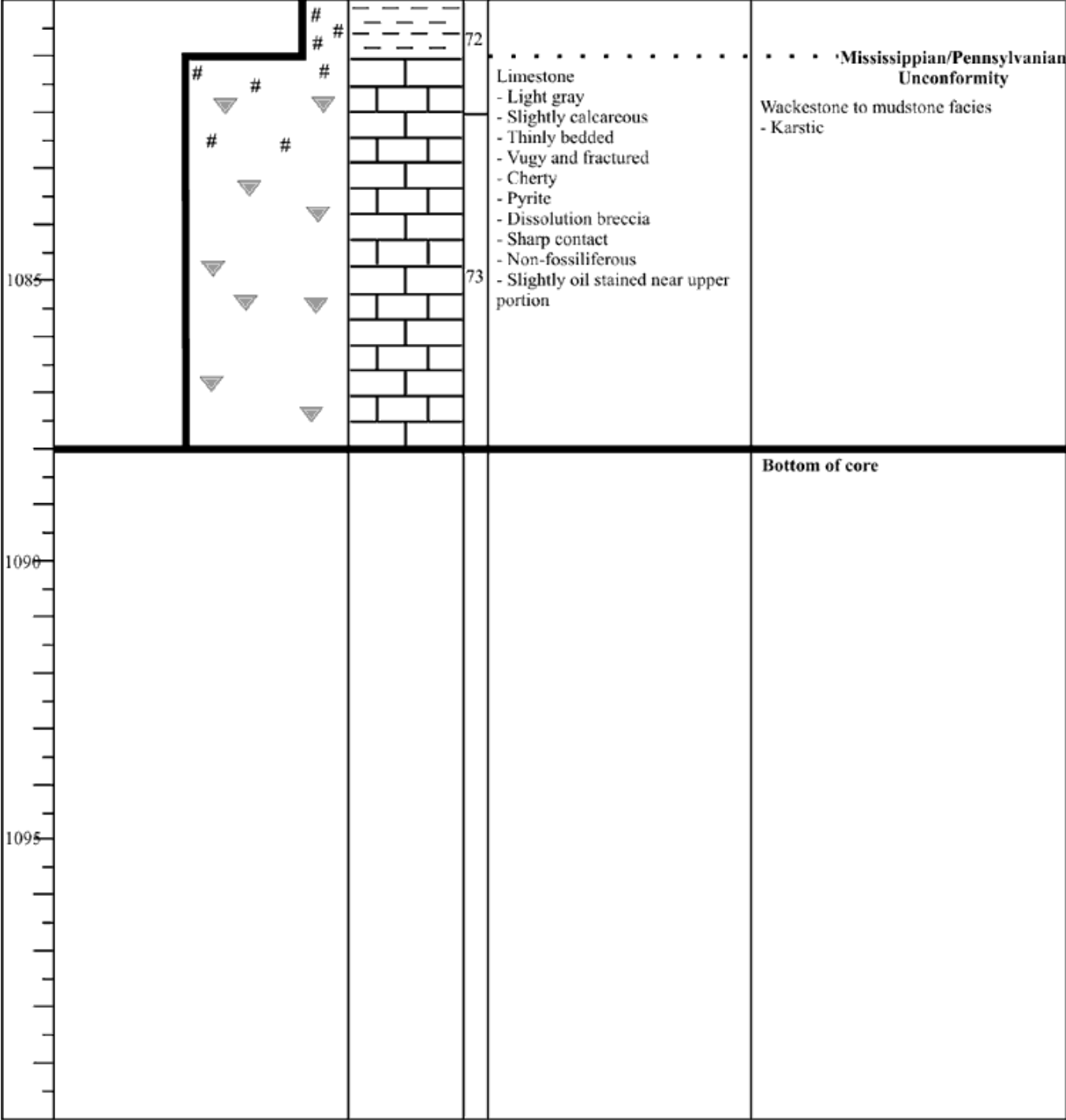
















































Appendix 1: Descriptions of Core

Cooper CW#1
 Kansas Geological Survey
 SE SW SW 11-T35S-R18E

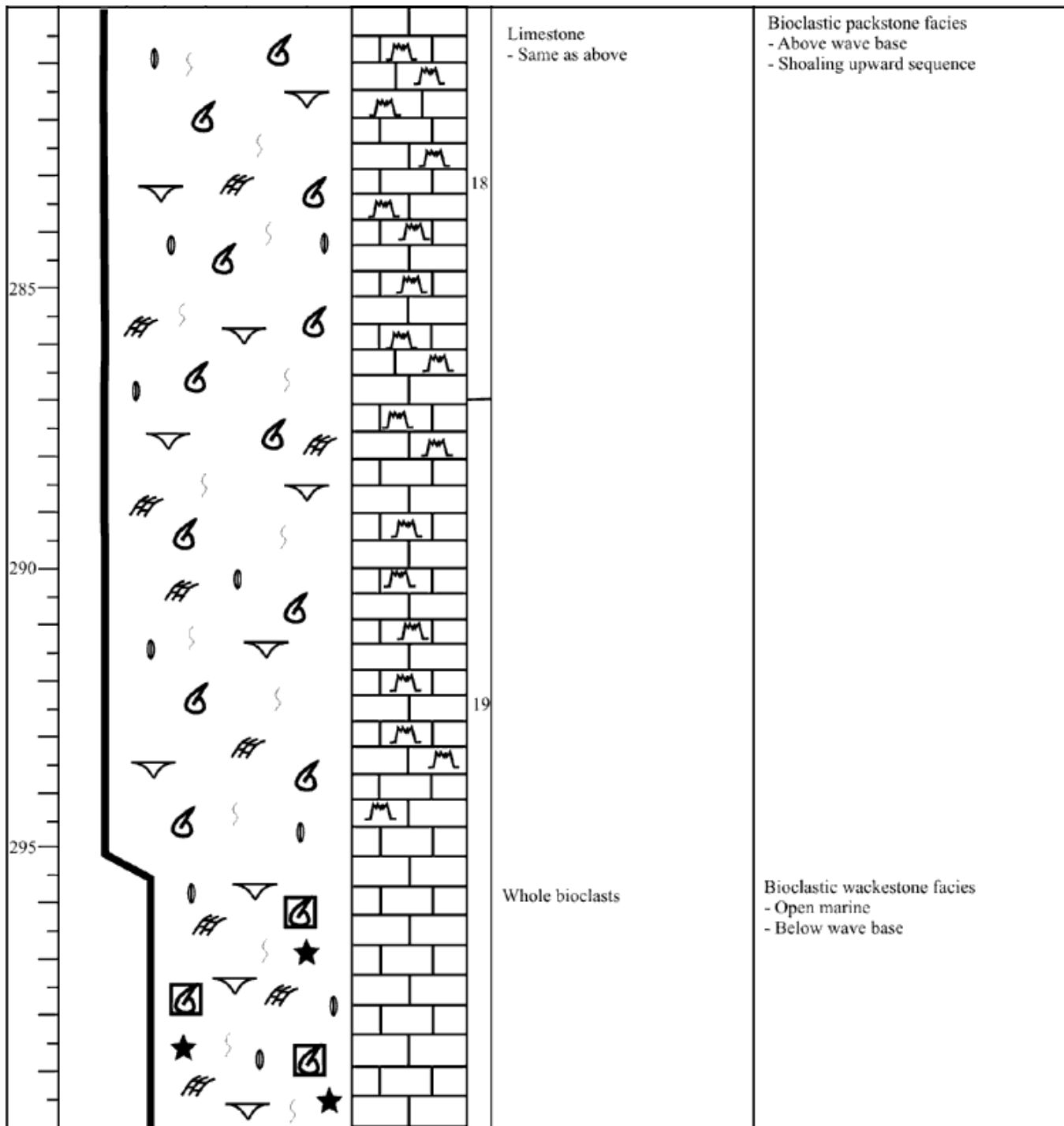
Legend

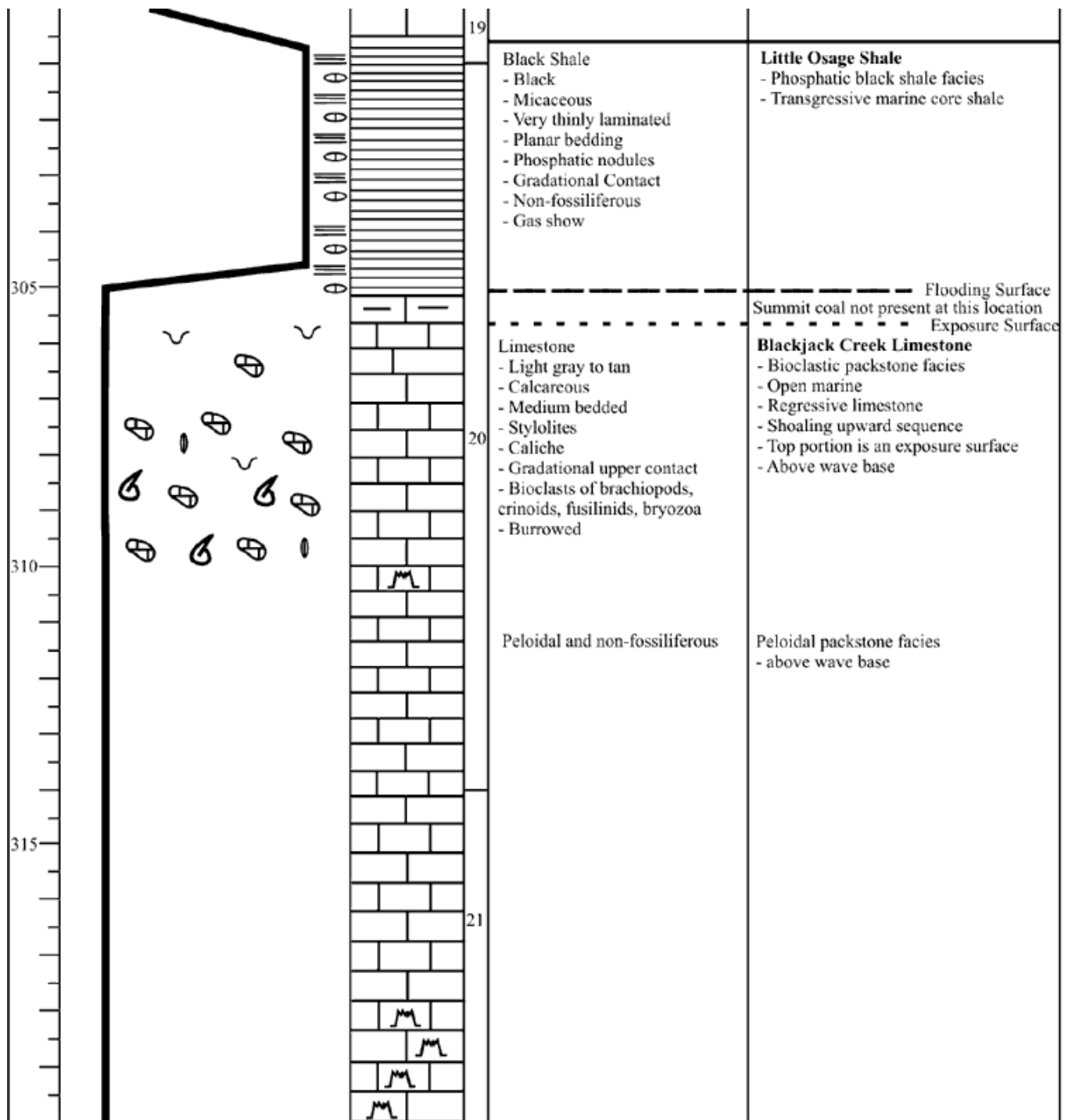
	Coal		Coal Bands
	Black Shale		Syneresis Cracks
	Sandstone		Soft Sediment Def.
	Shale		Stylolite
	Interbedded Sh and Ss		Bioclasts, Whole
	Calcareous Shale		Bioclastic Fragments
	Underclay		Algae
	Limestone		Brachiopods
	Planer Bedding		Bryozoa
	Flaser Bedding		Corals, Colonial
	Wavy Bedding		Crinoids
	Lenticular Bedding		Foraminifera
	Cross-Lamination		Bioturbation
	Wave Ripples		Burrowing
	Siderite Nodules		Caliche
	Phosphatic Nodules		Slickensides
	Pyrite		Ped Structures
	Chert		Rhizoliths

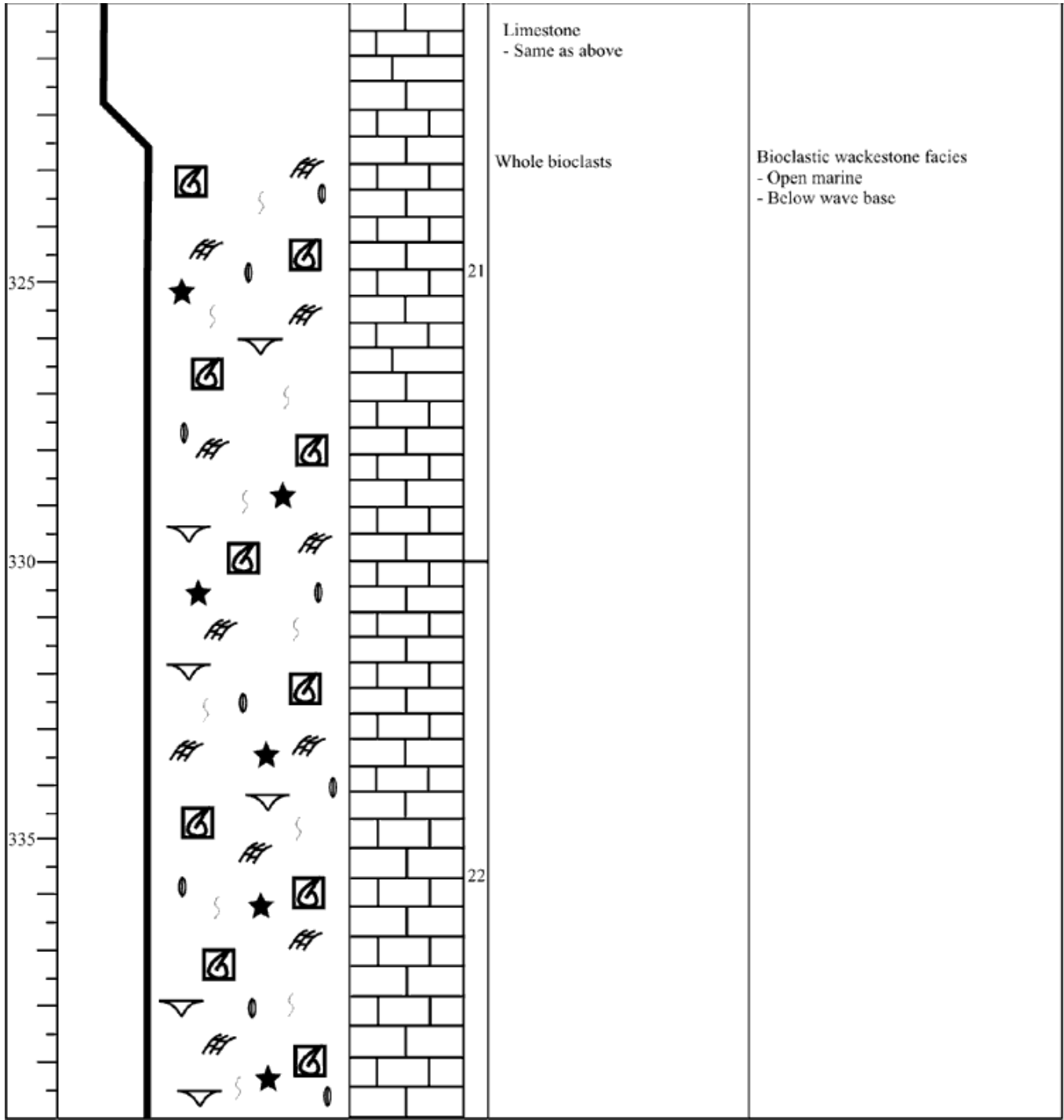
NAME COOPER CW-1 STRUCTURAL SETTING CHEROKEE BASIN

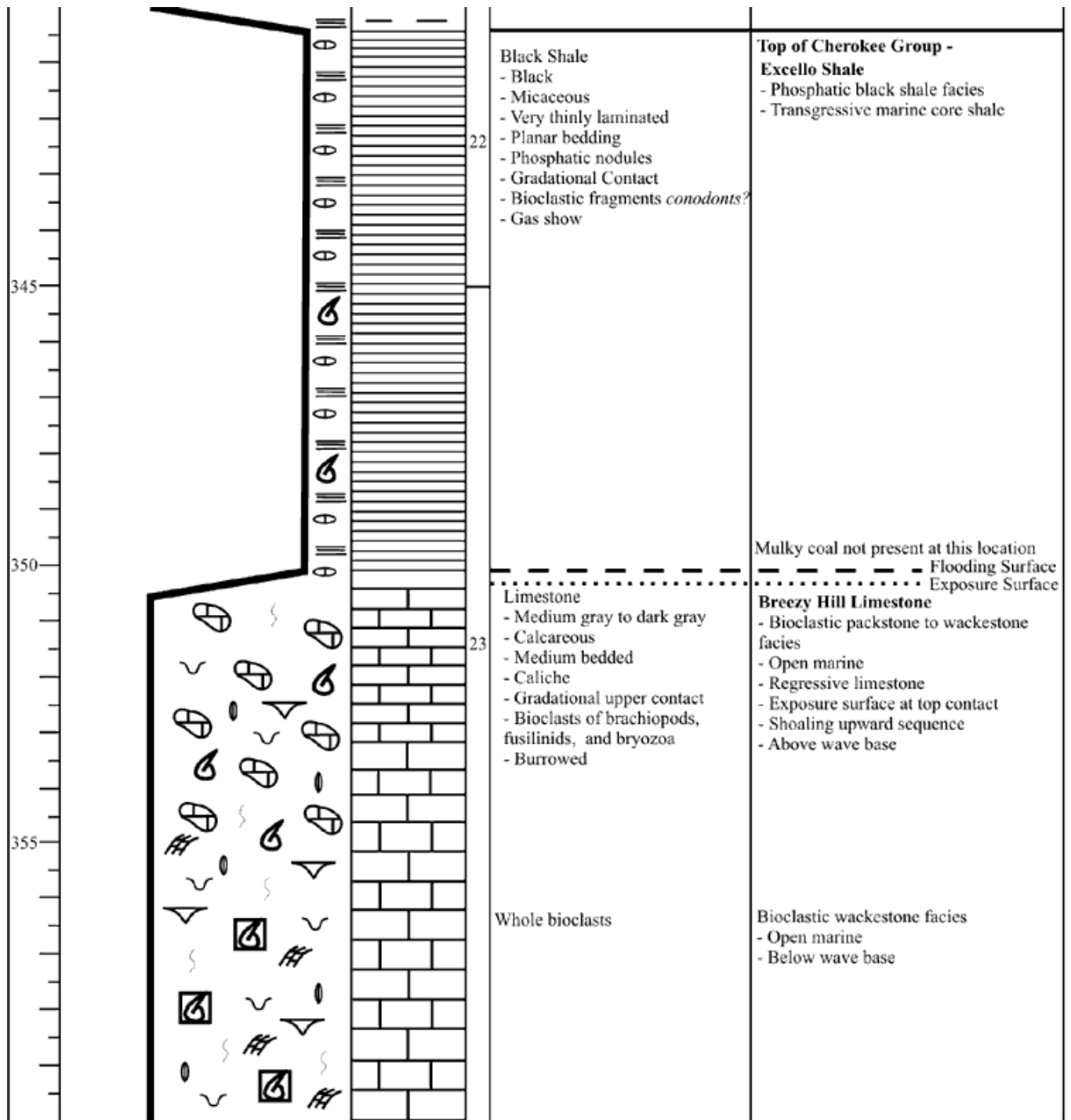
LOCATION SE SW SW 11-T35S-R18E DESCRIBED BY: JONATHAN LANGE

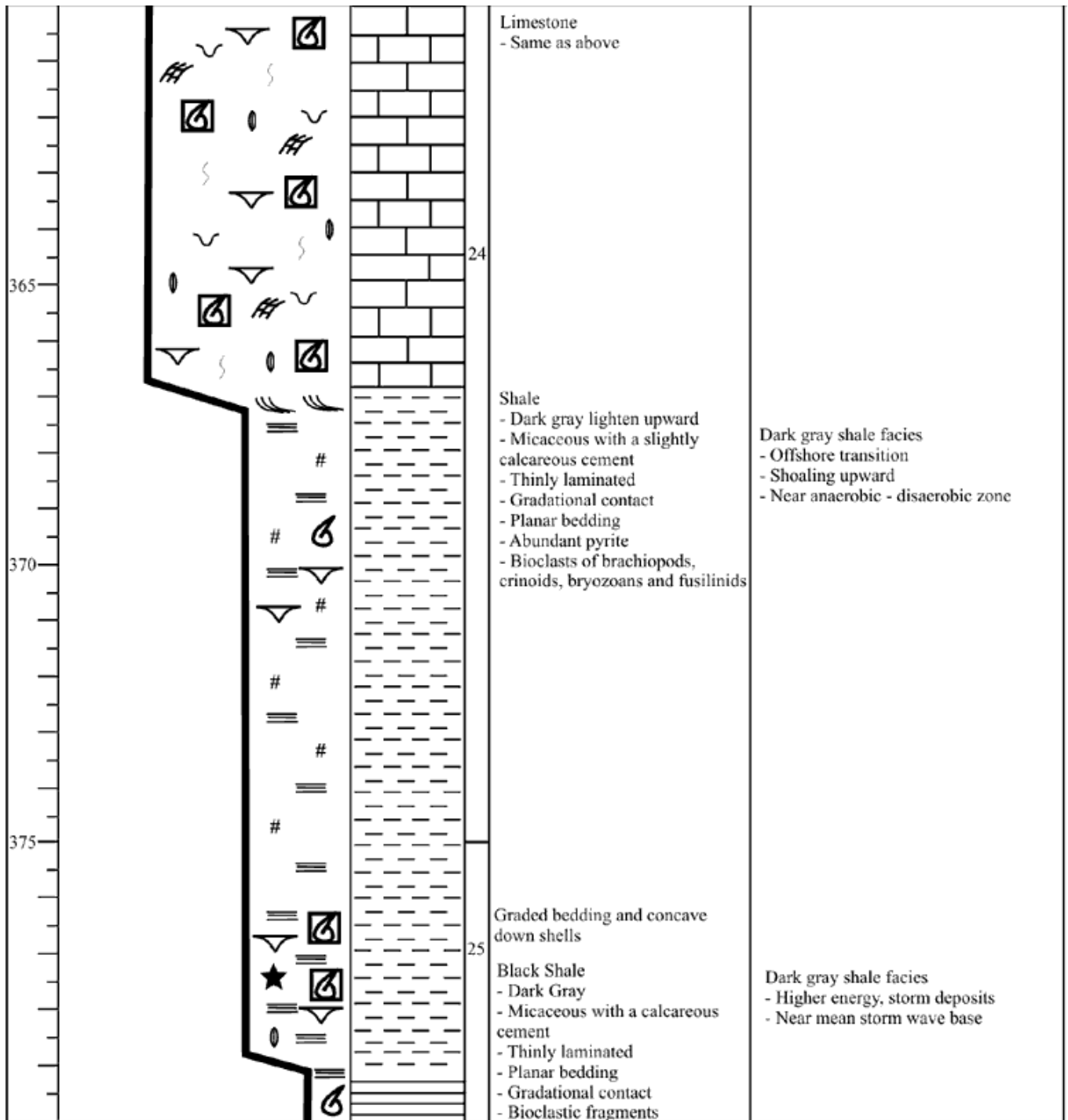
DEPTH (FT)	TEXTURE, GRAIN SIZE AND STRUCTURES						LITHOLOGY	BOX #	DESCRIPTION	DATE <u>JANUARY 2003</u>		
	CARBONATES										DESCRIPTION	UNIT: Fort Scott
	GN	PK	WKE	MUDST	EVAP	CLASTICS						
CLASTICS												
Gravel	Coarse	Medium	Fine	Silt	Clay							
265								<ul style="list-style-type: none"> Limestone - Light gray to tan - Calcareous - Medium bedded - Stylolites, and horse tail stylolites - Calcite veins - Rooting - Gradational upper contact - Bioclasts of brachiopods, crinoids, fusulinids, and bryozoa - Bioturbated 	<p>Top of Fort Scott - Higginsville Limestone</p> <ul style="list-style-type: none"> Bioclastic packstone facies - Open marine - Above wave base - Shoaling upward sequence 			
270							17	<ul style="list-style-type: none"> Heavily fractured with calcite crystals 				
275							18	<ul style="list-style-type: none"> Shale parting Rip-up clasts and rooting Peloidal and nonfossiliferous 	<ul style="list-style-type: none"> Peloidal packstone facies - Open marine - Above wave base 			

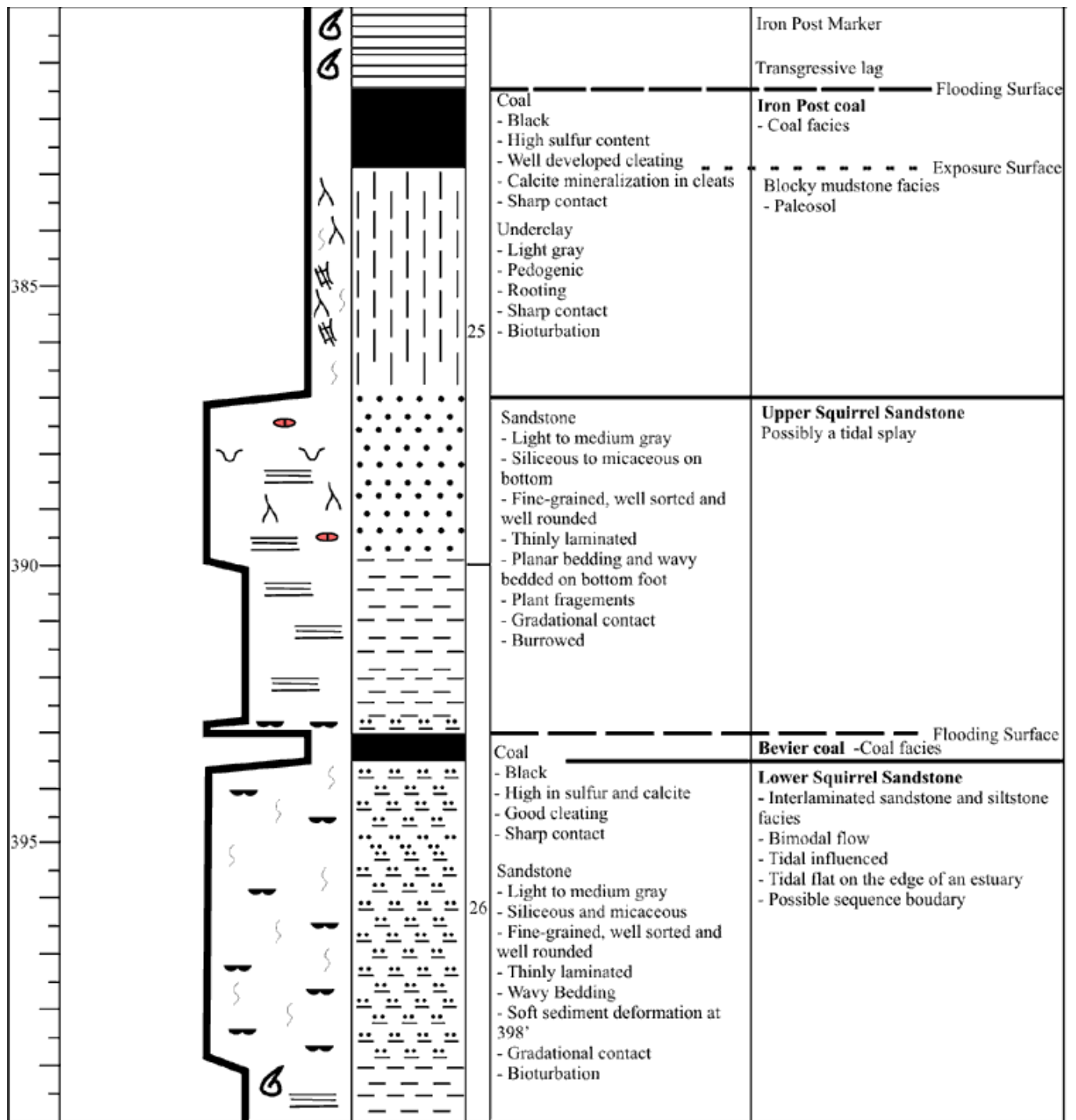


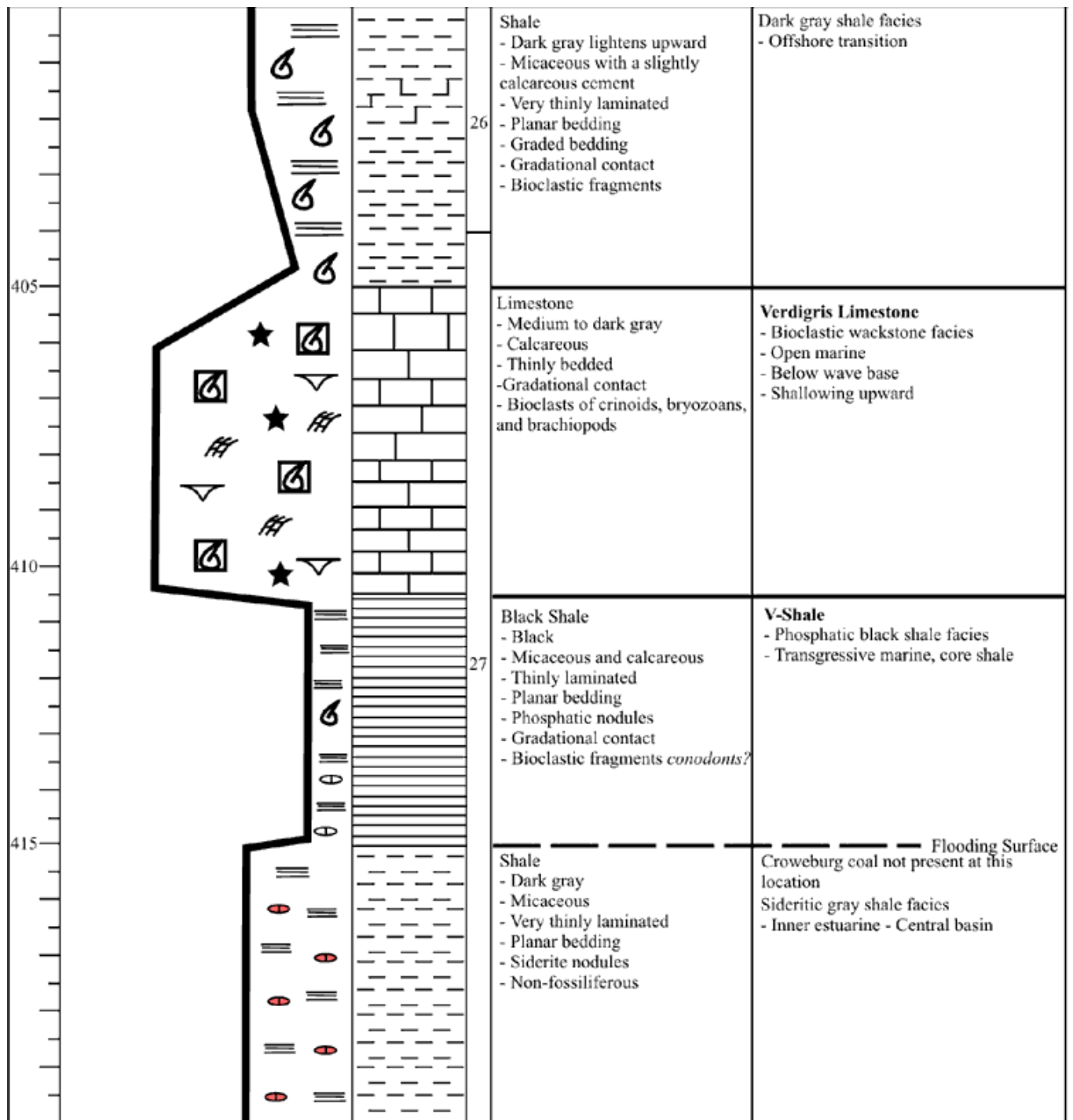


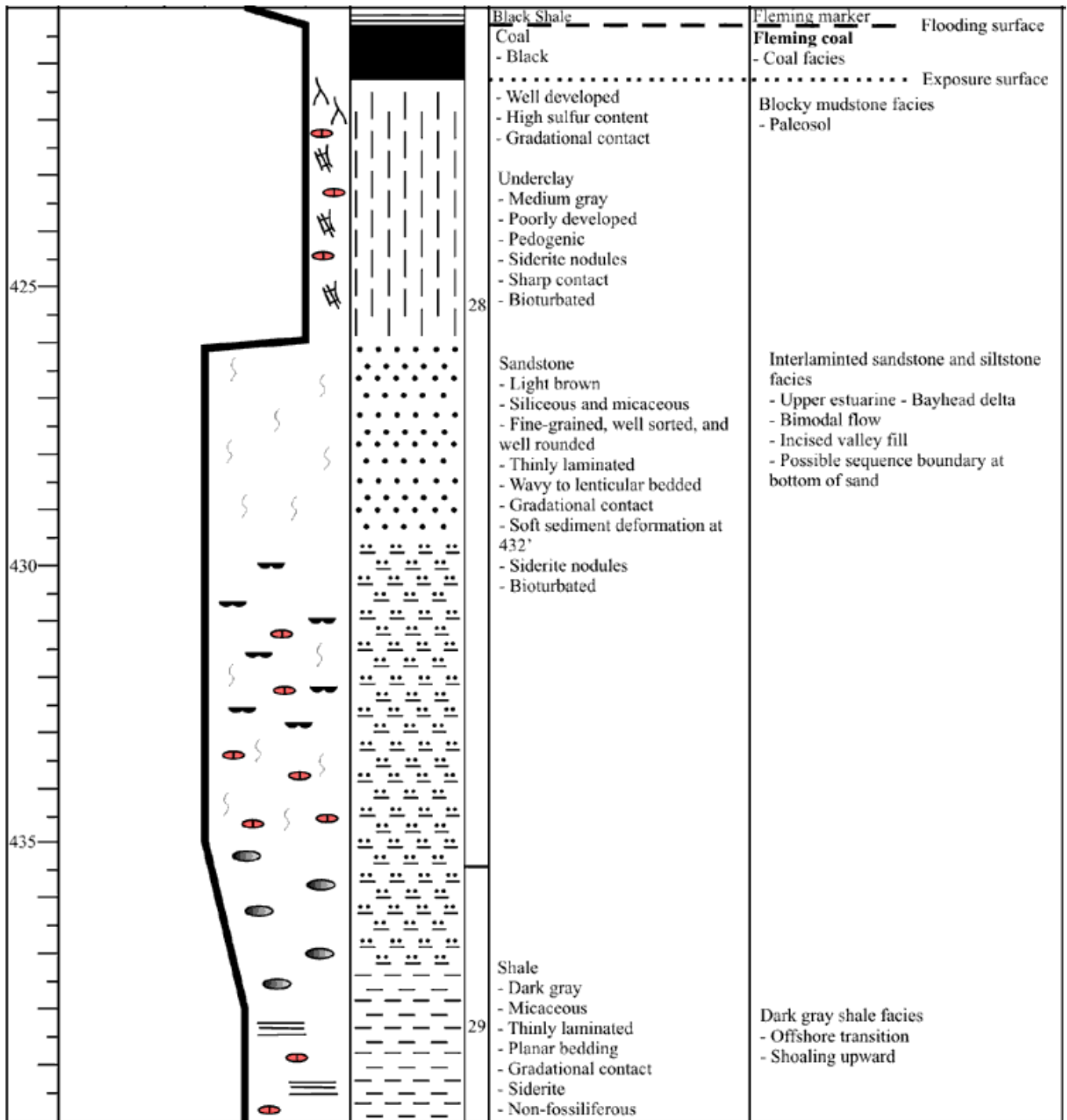


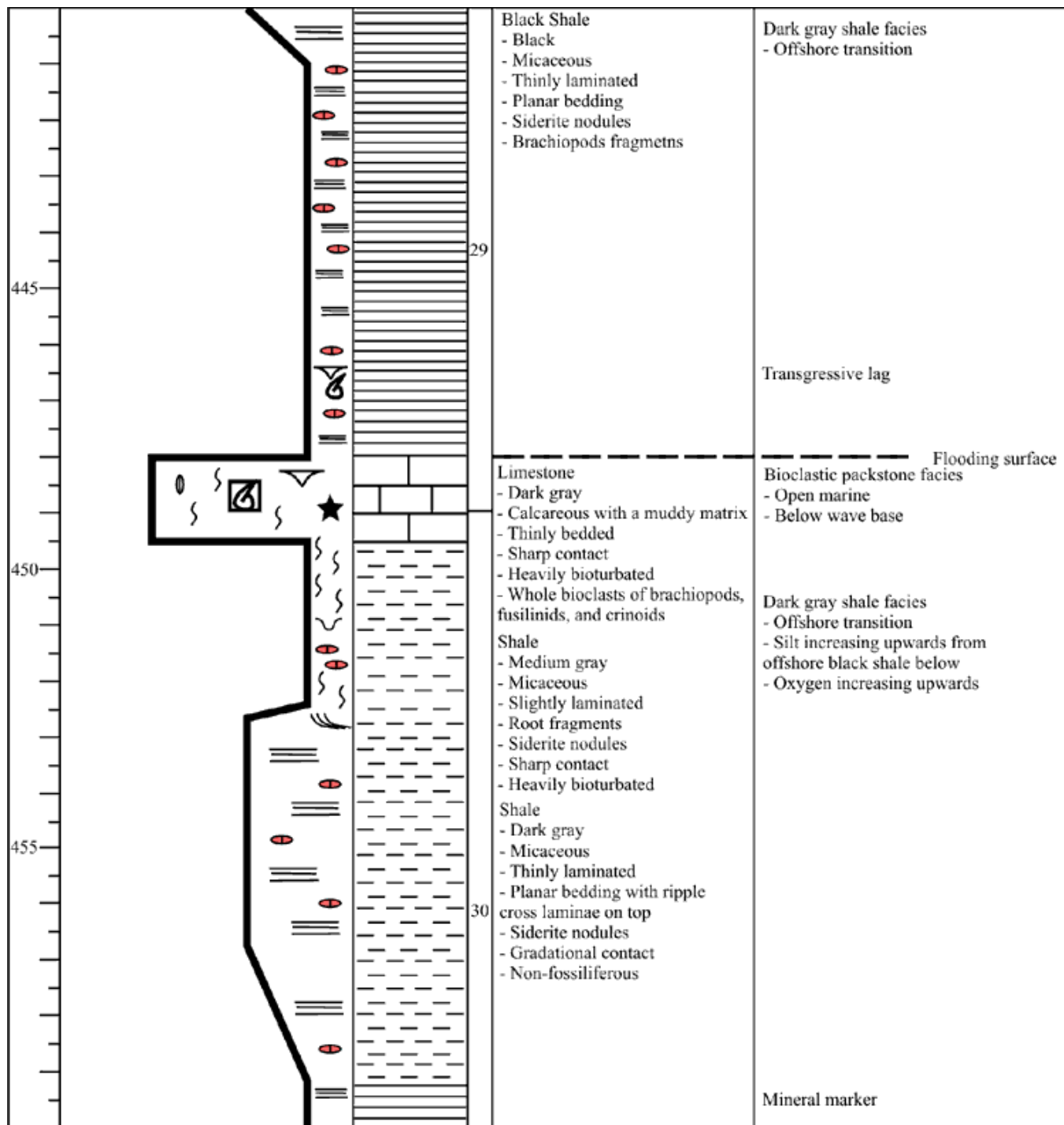


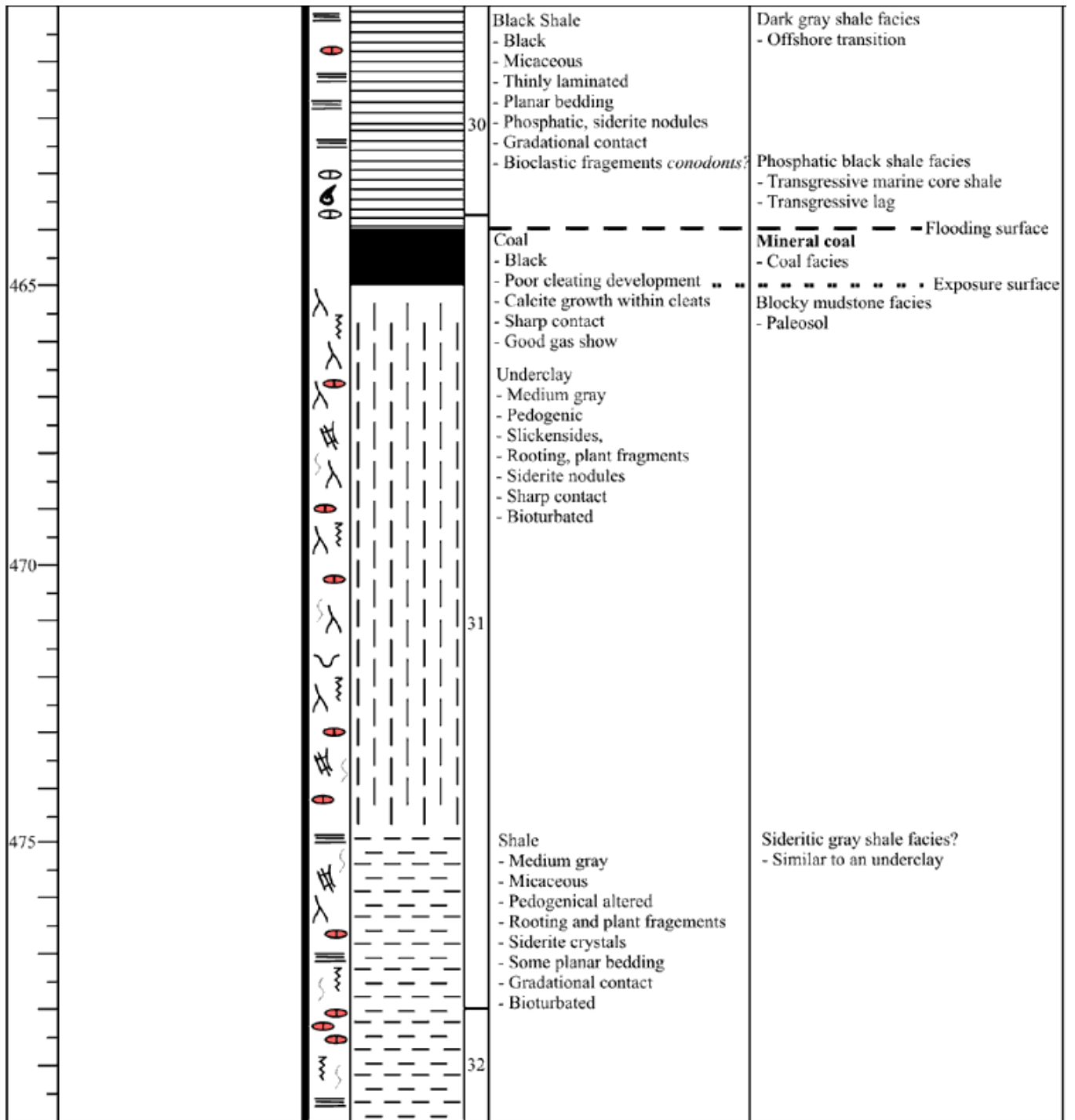


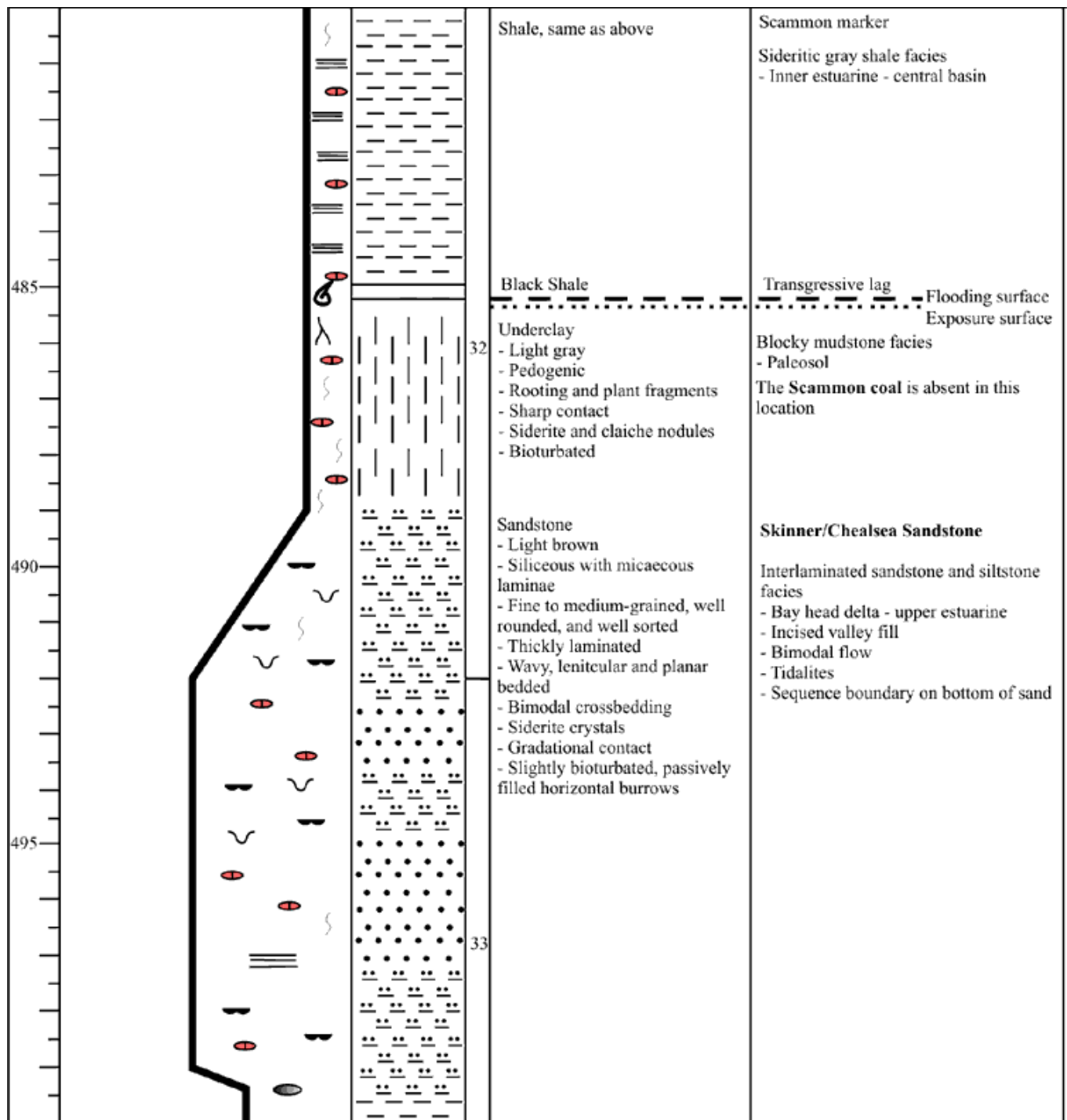


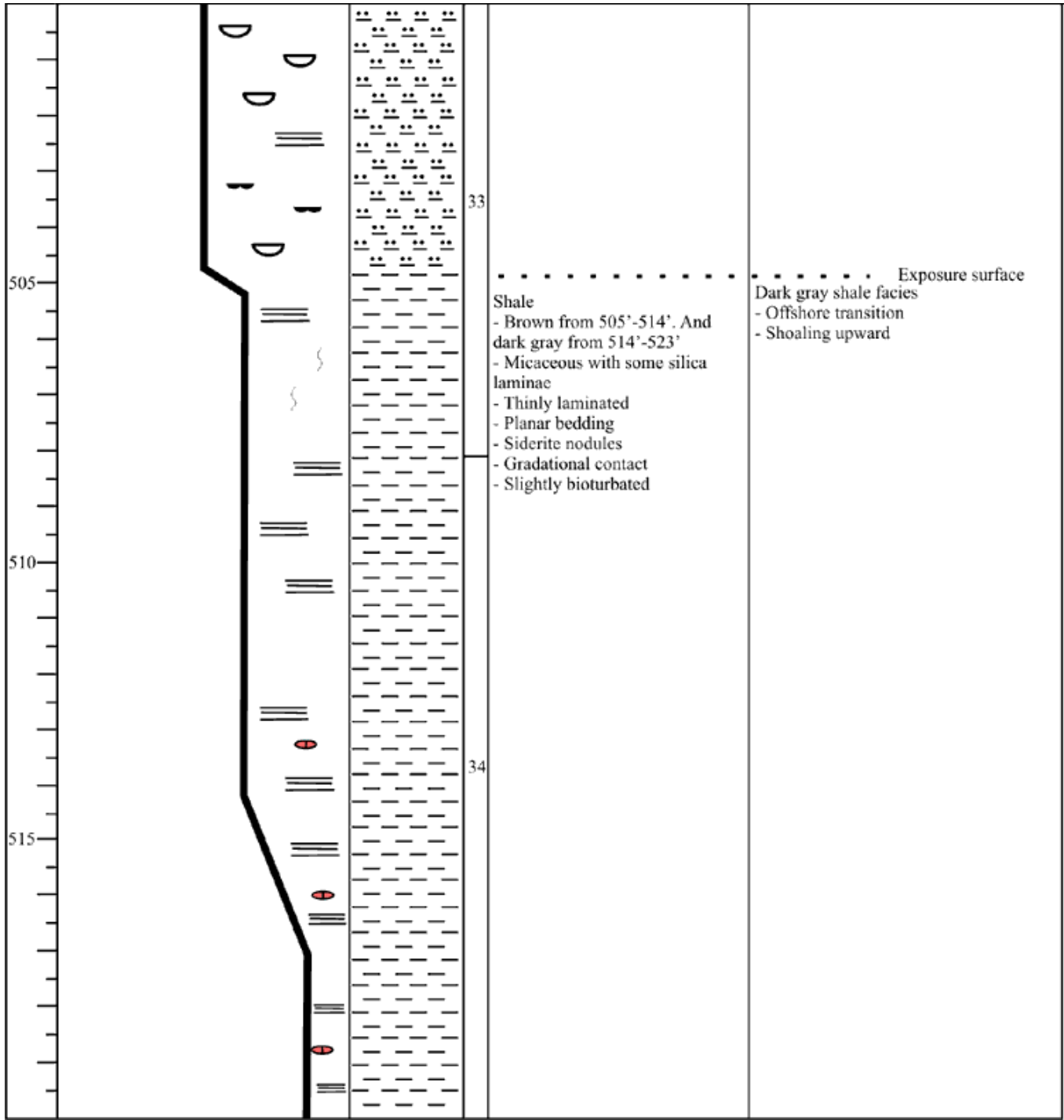


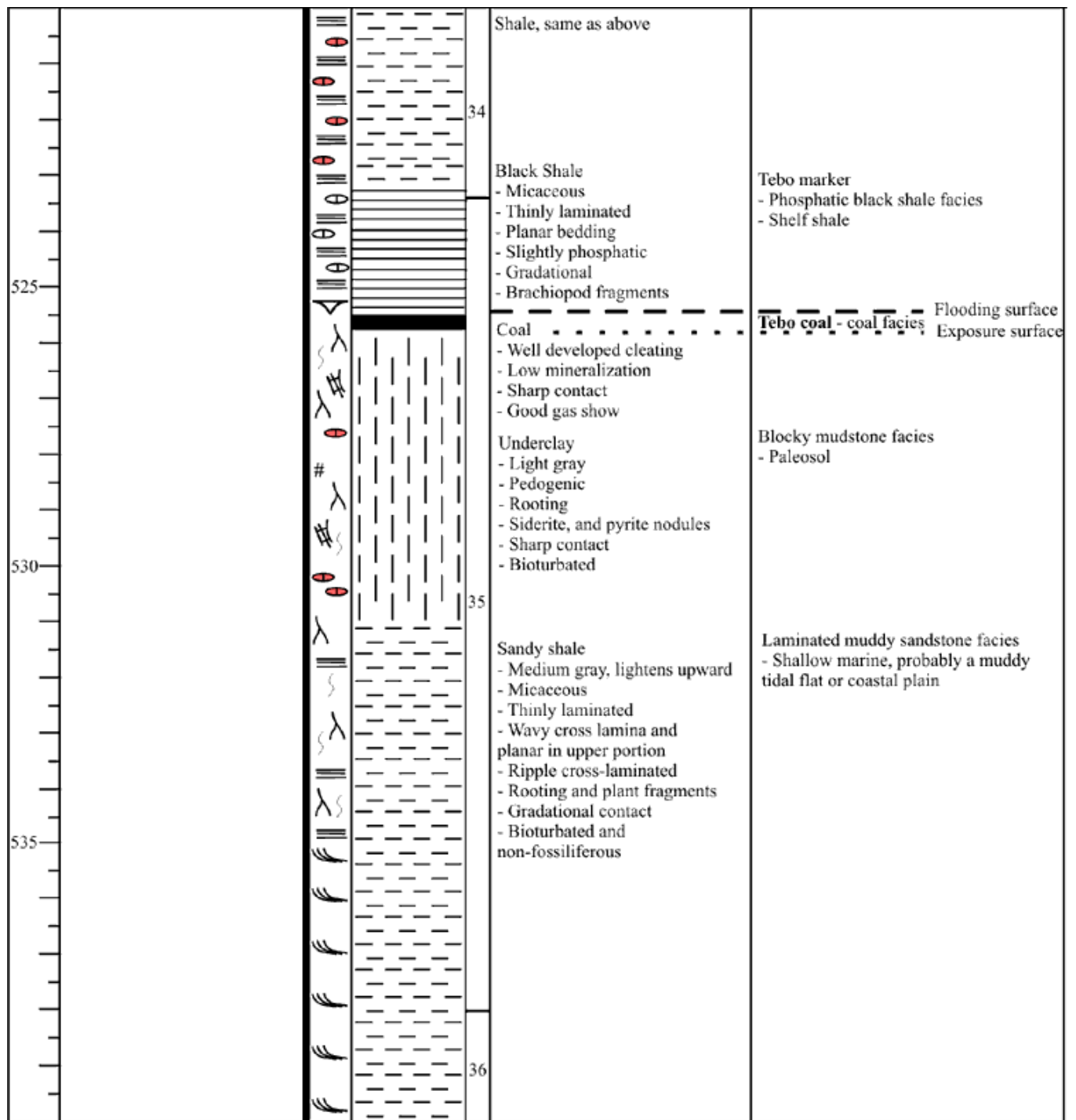


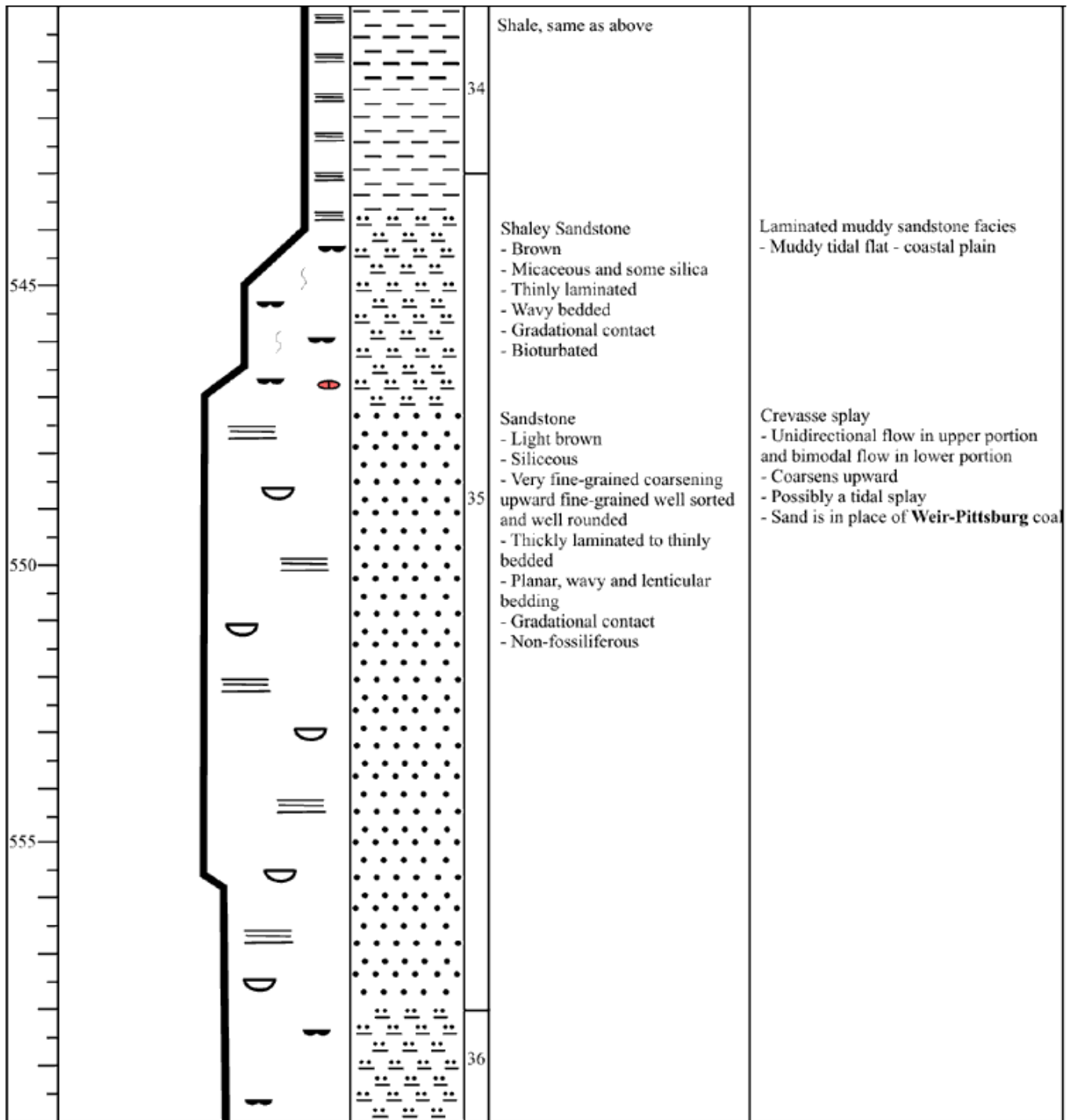


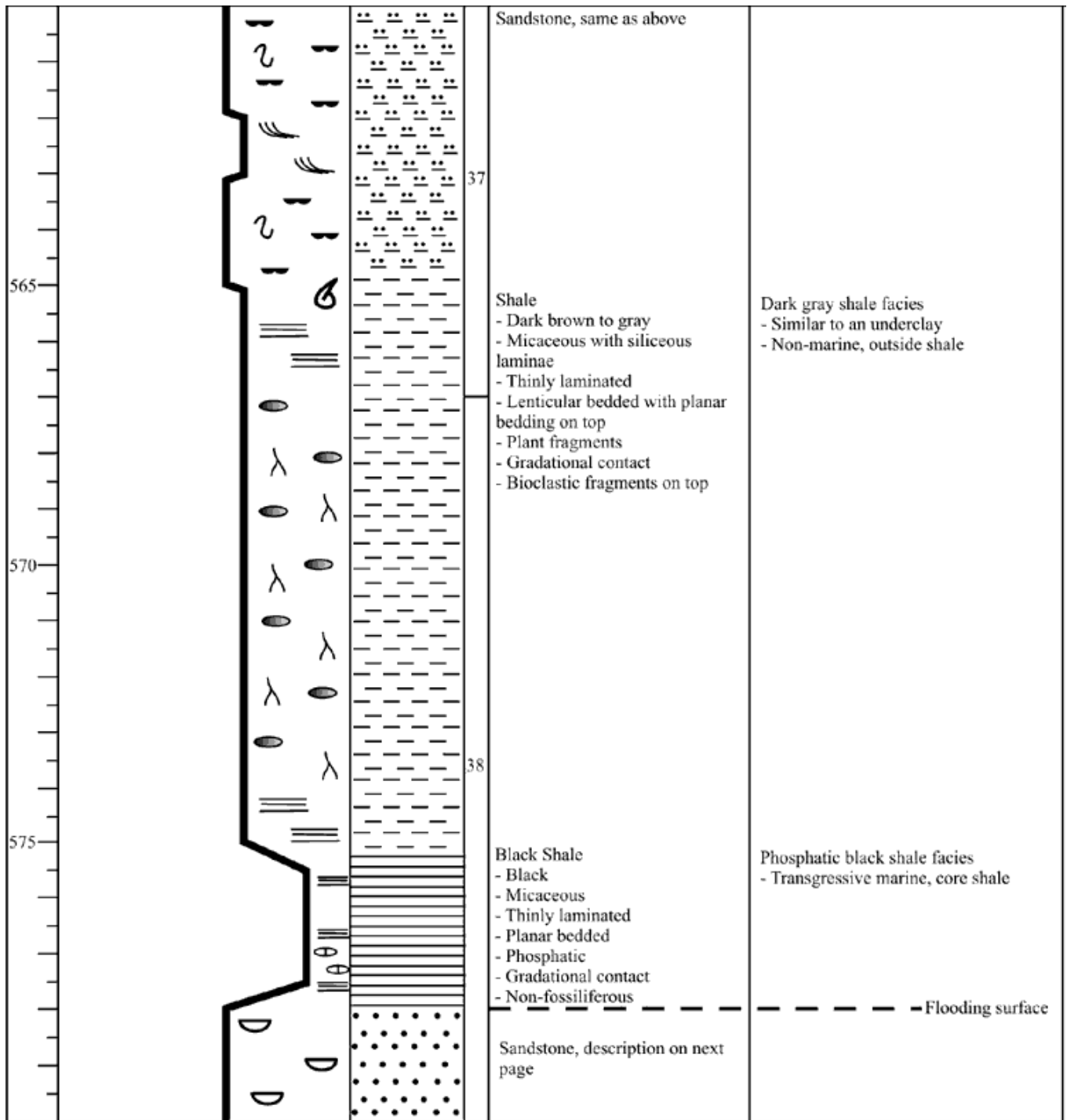


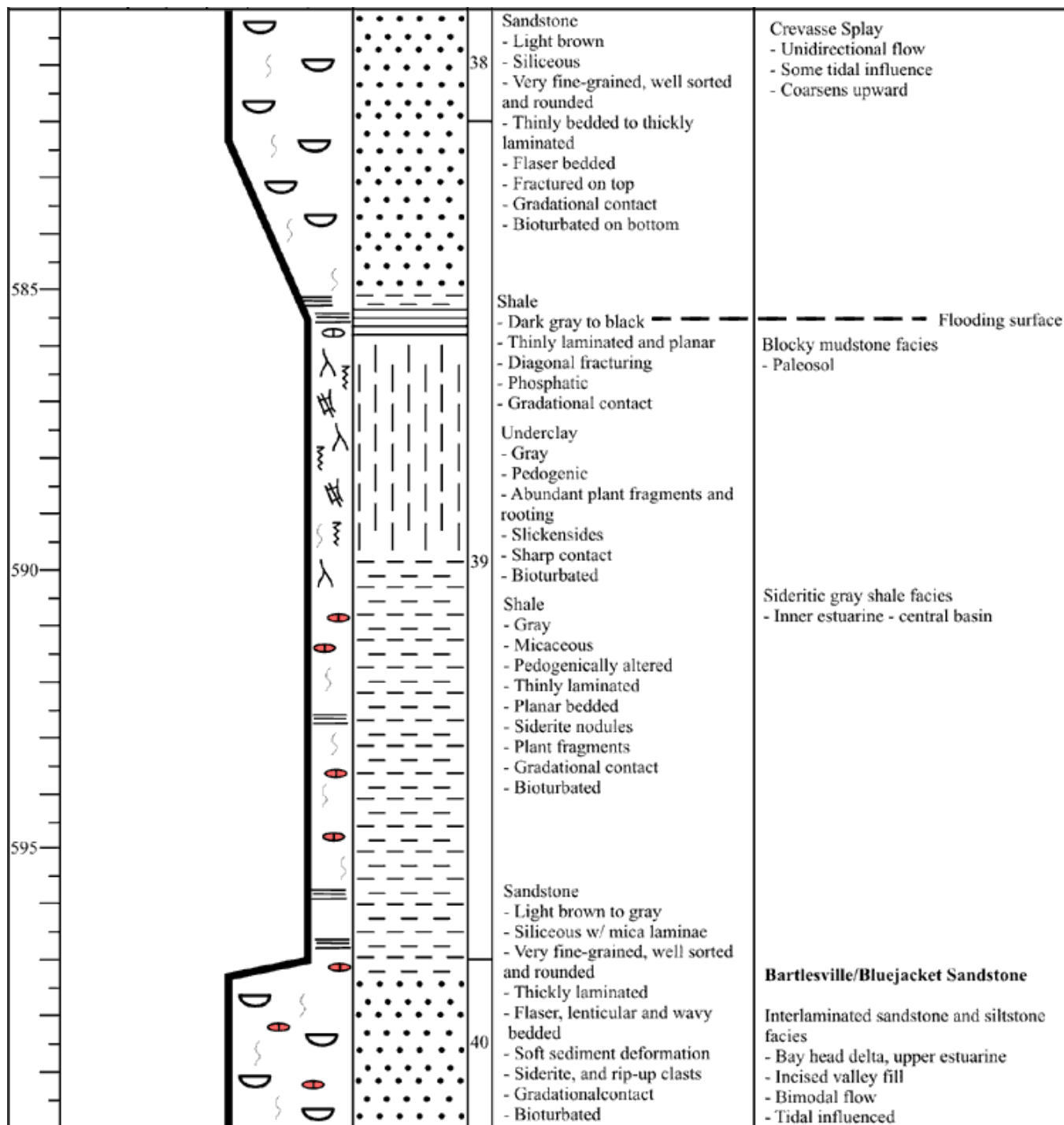


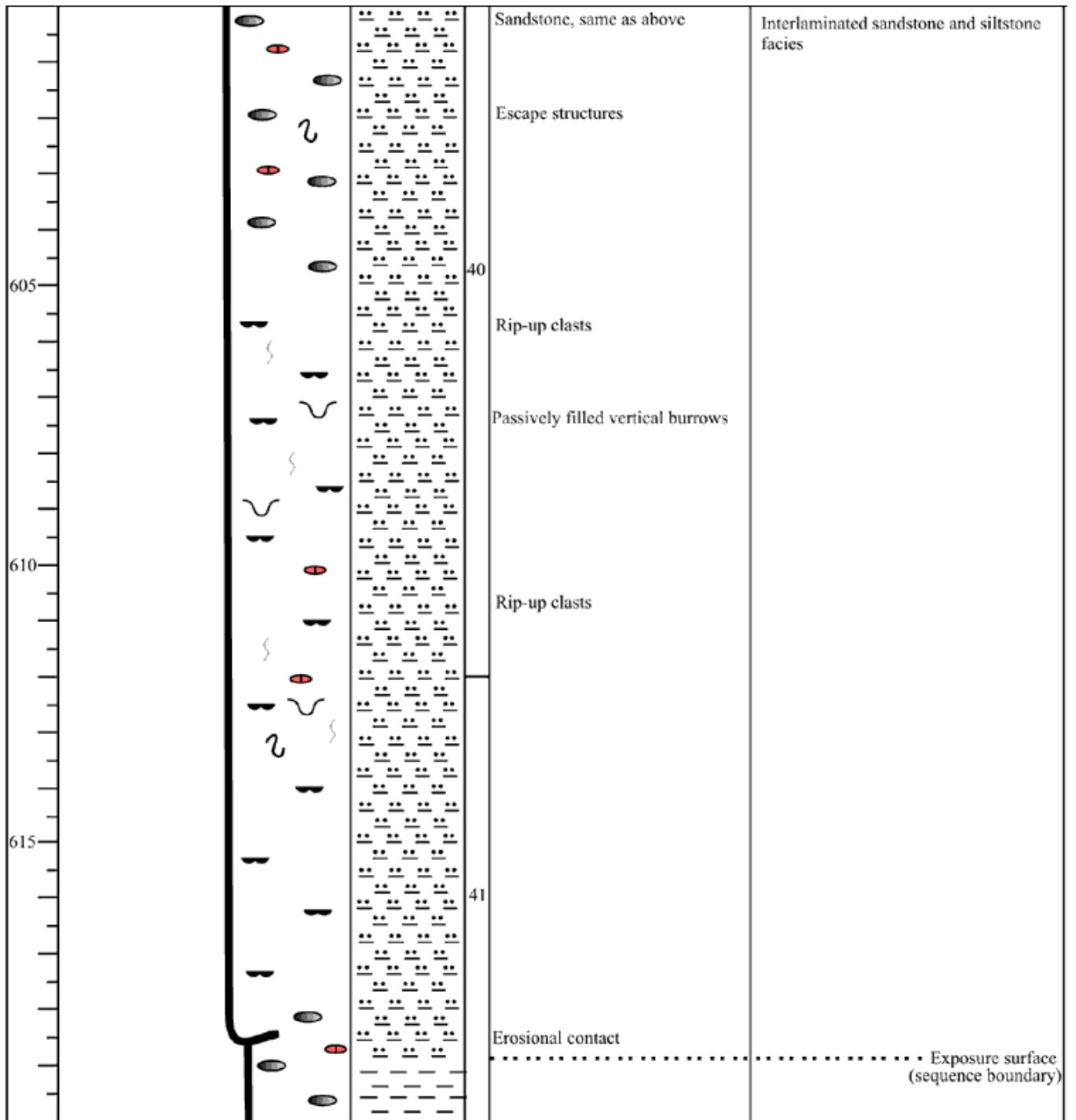


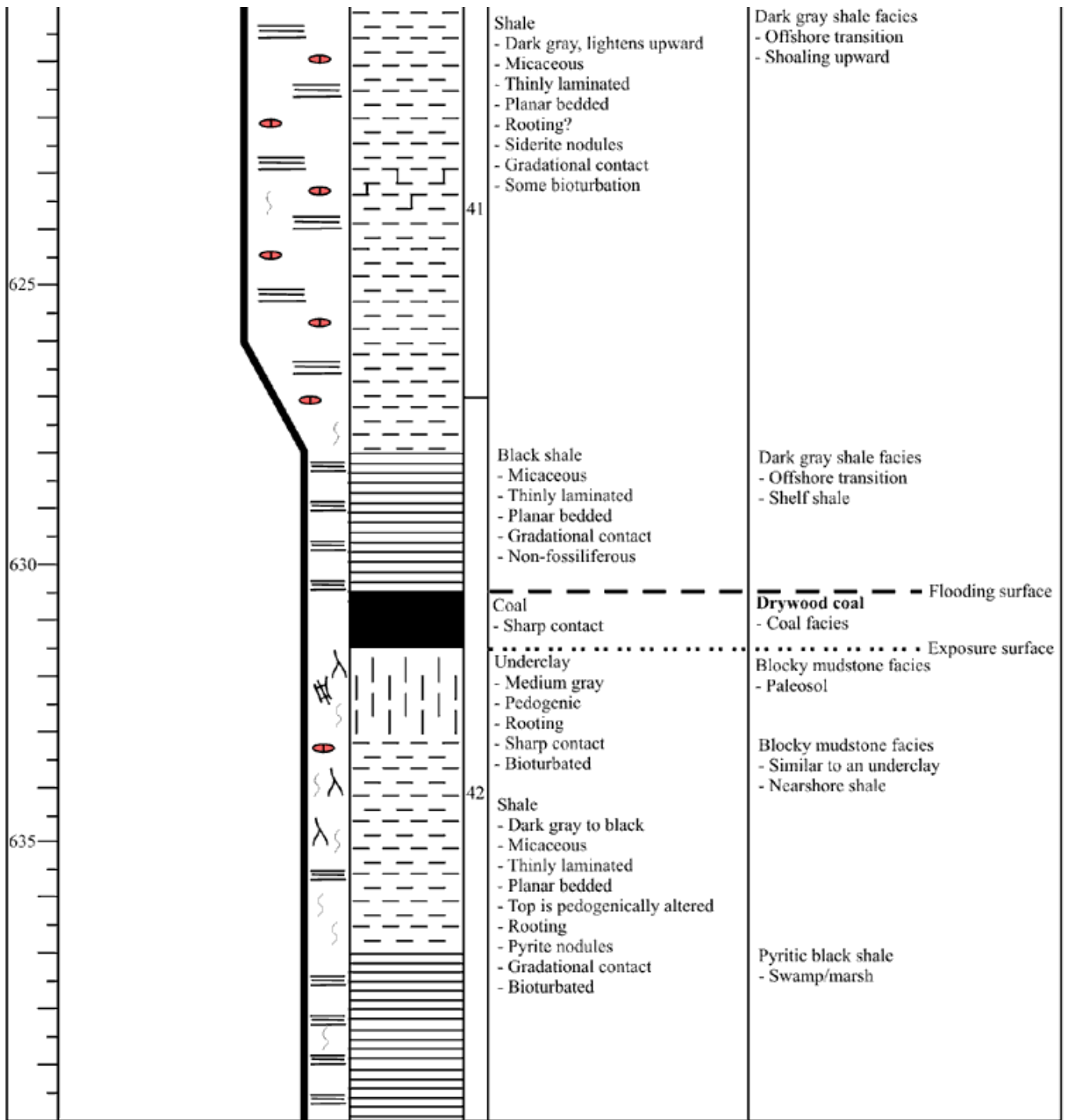


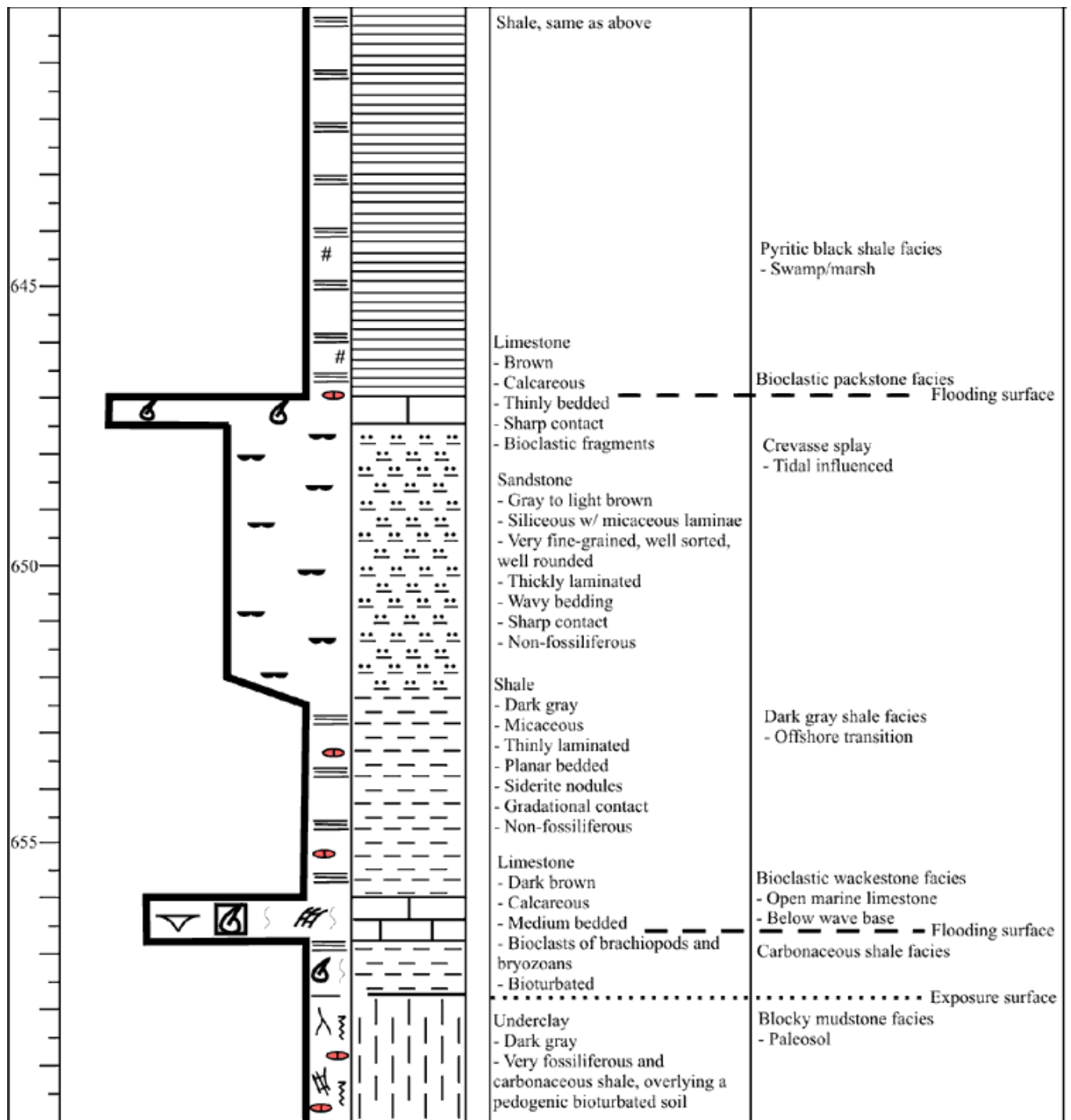


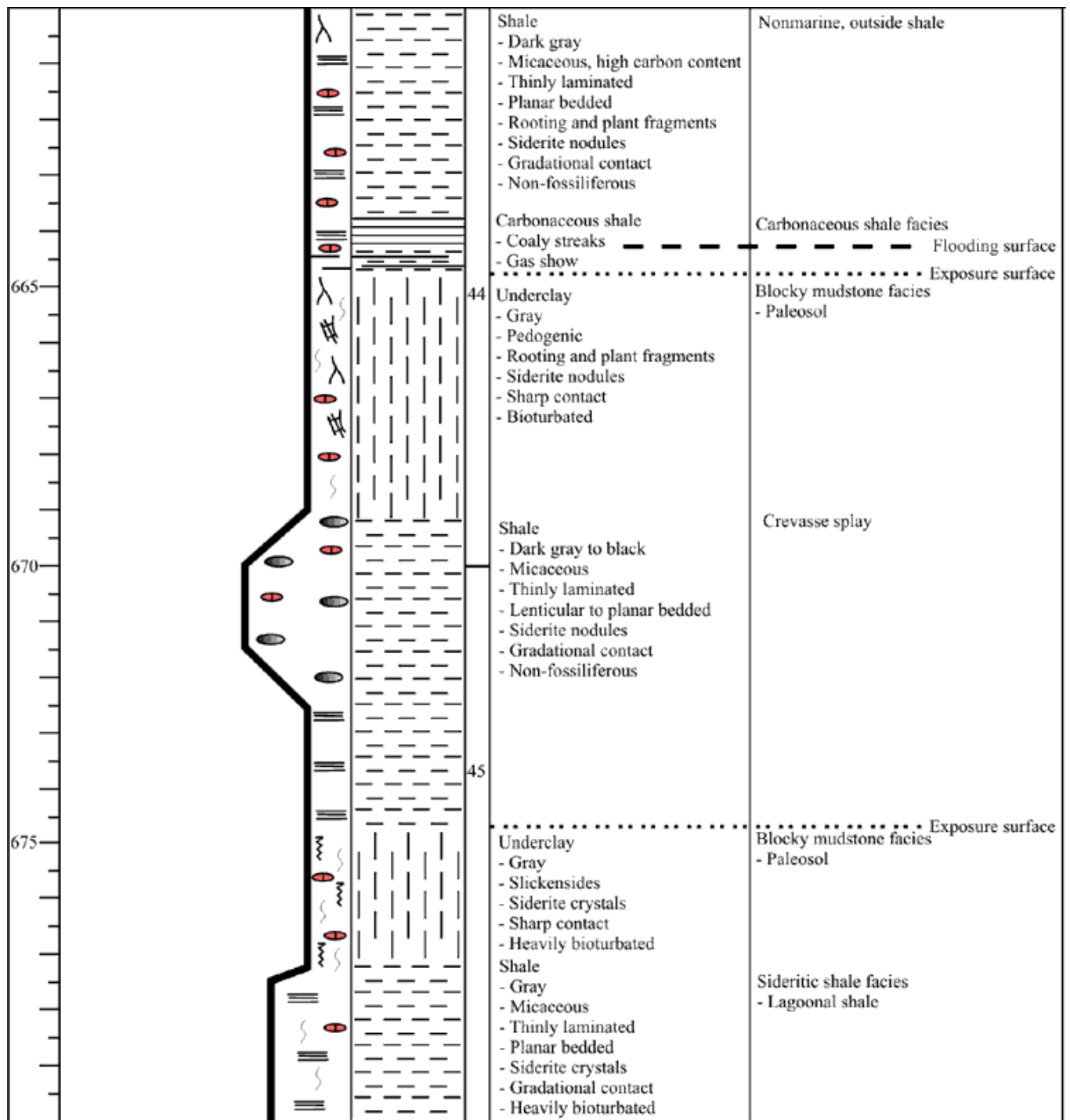


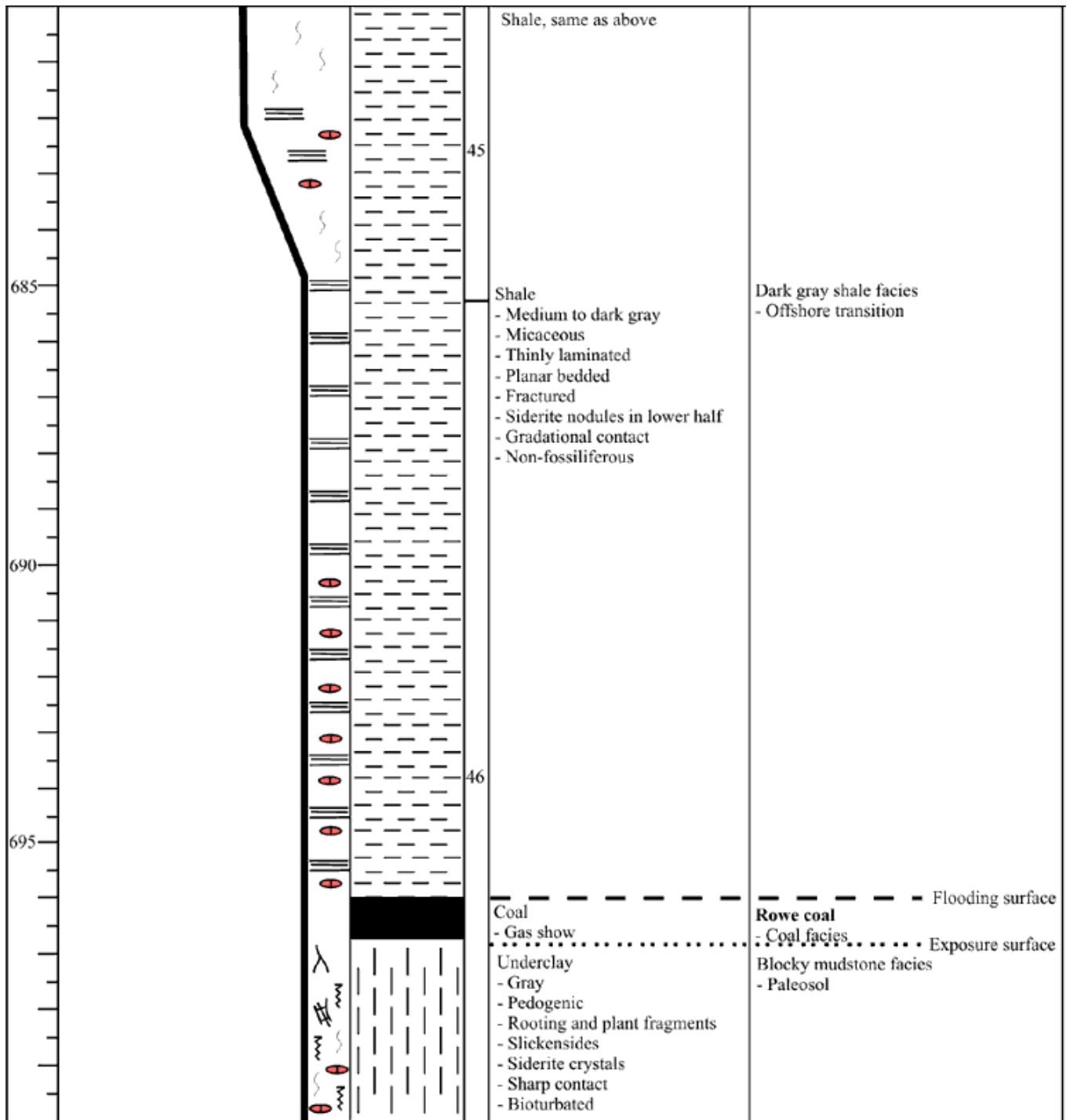


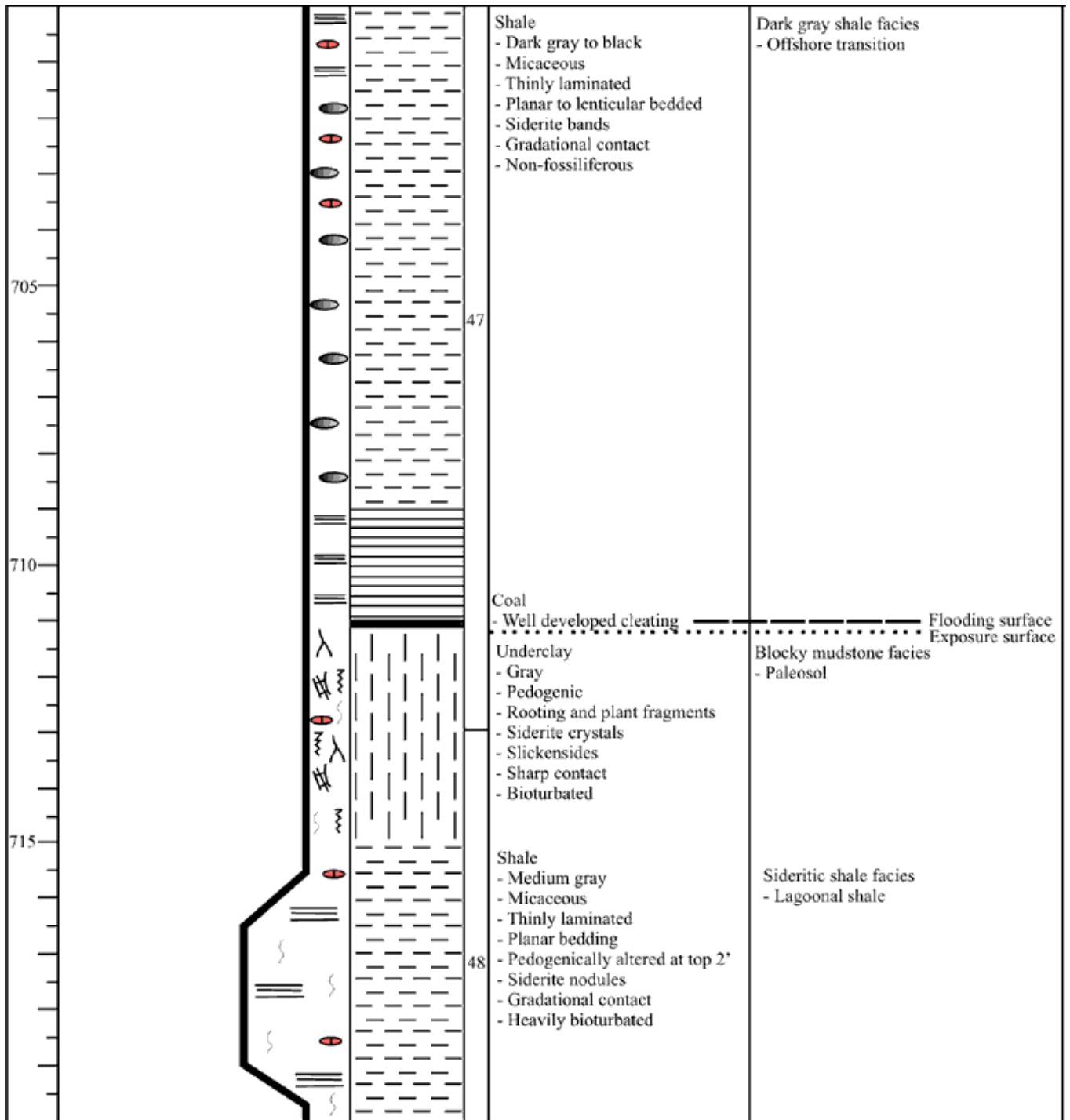


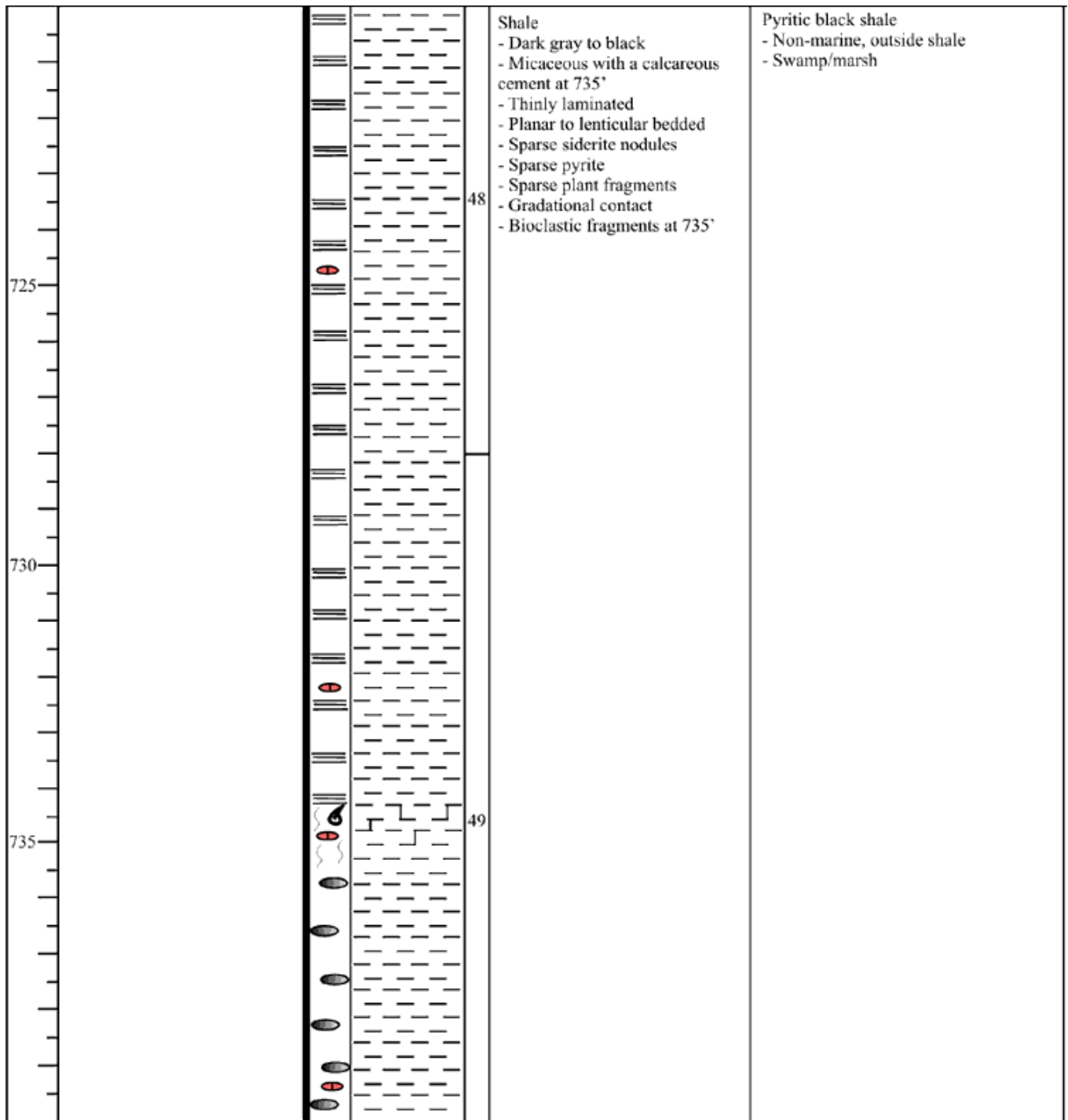


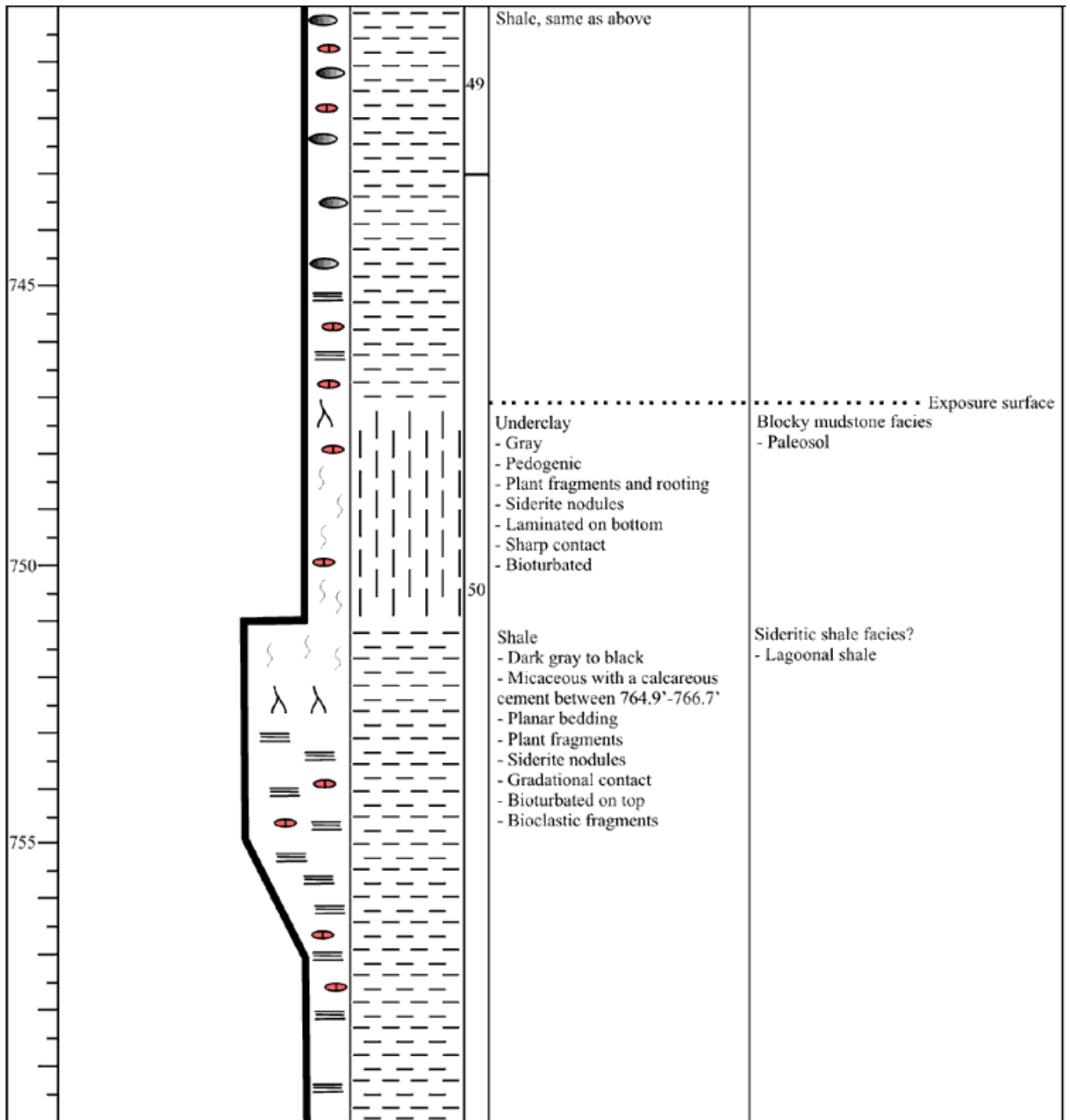


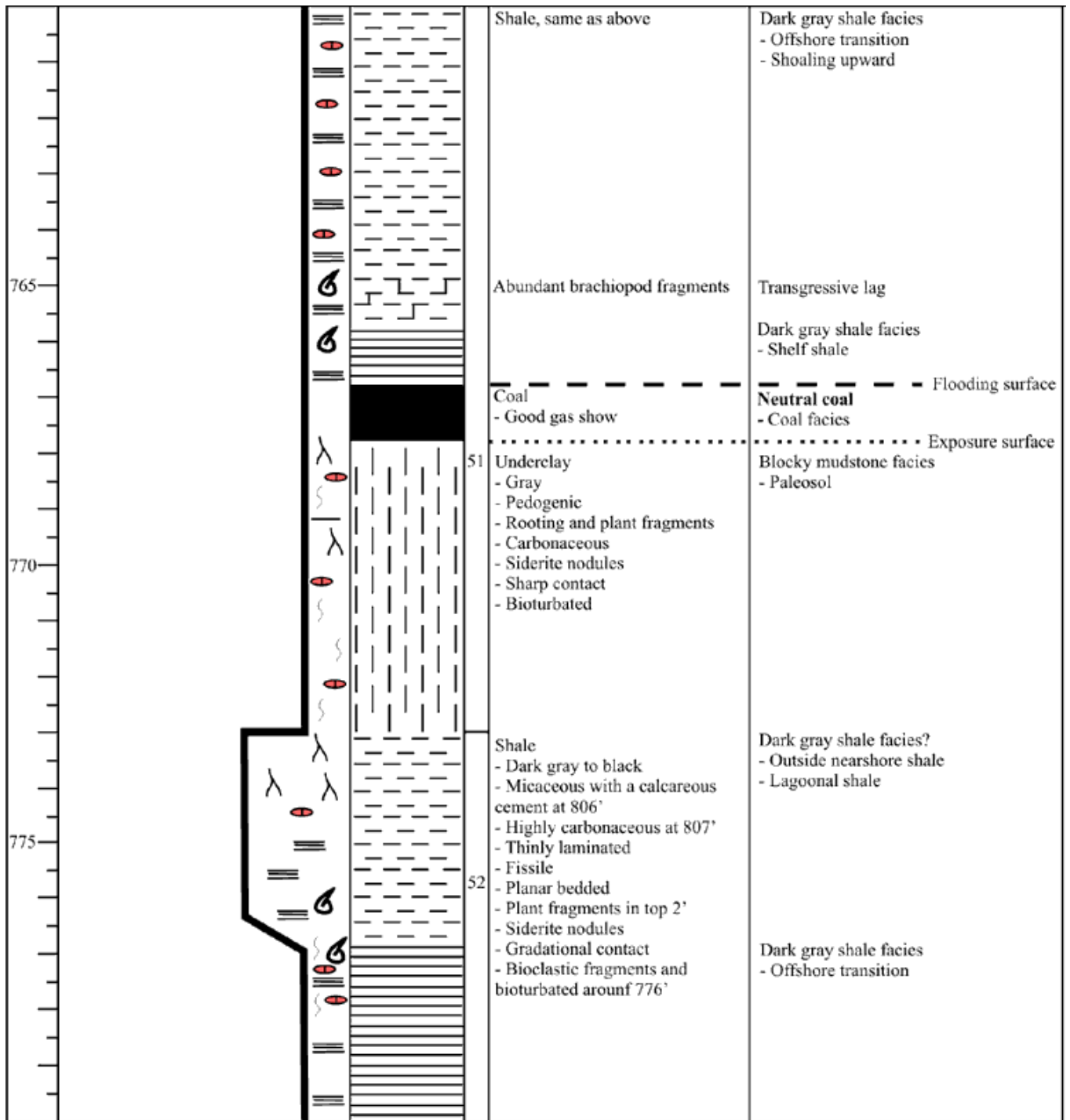


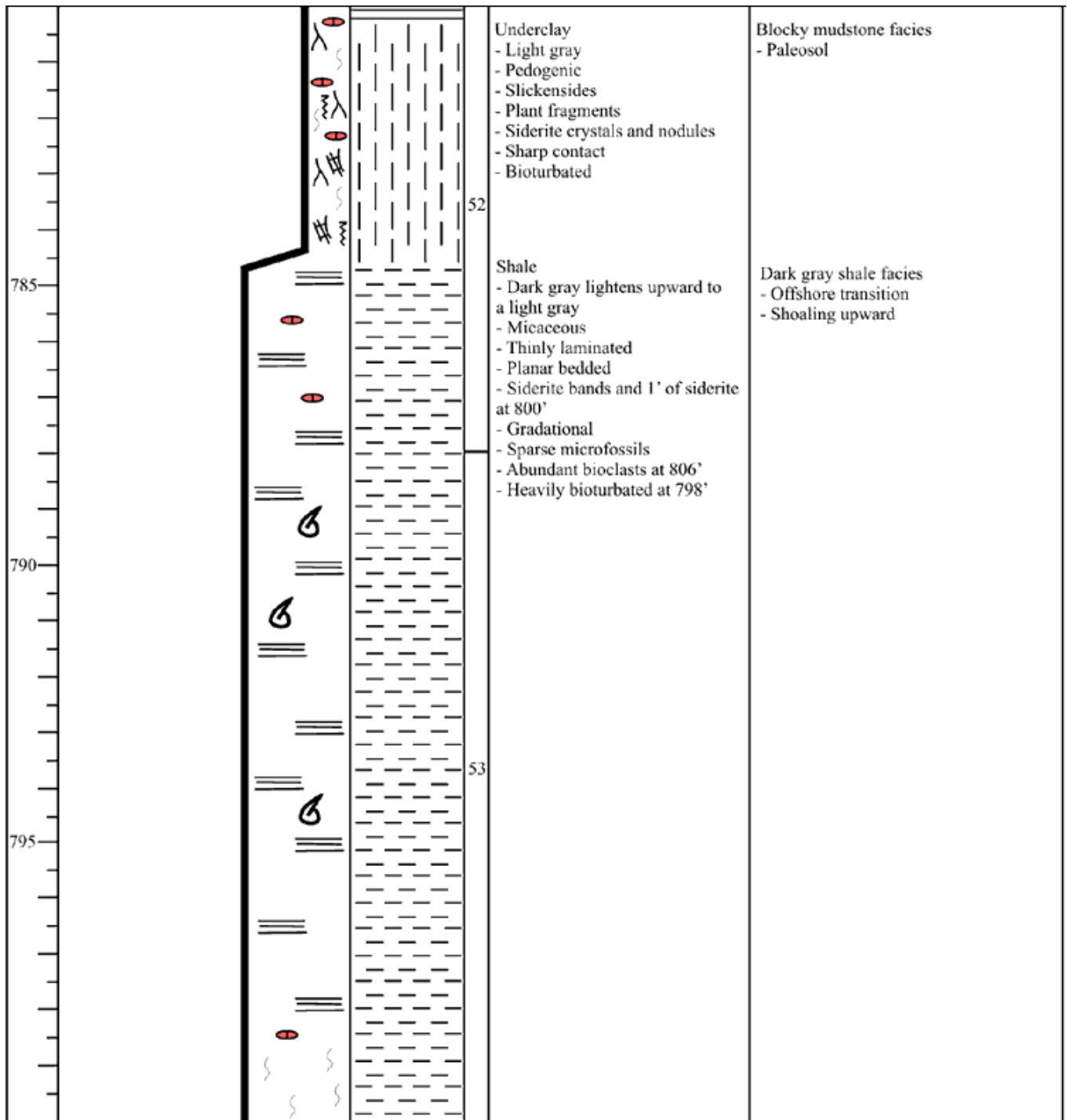


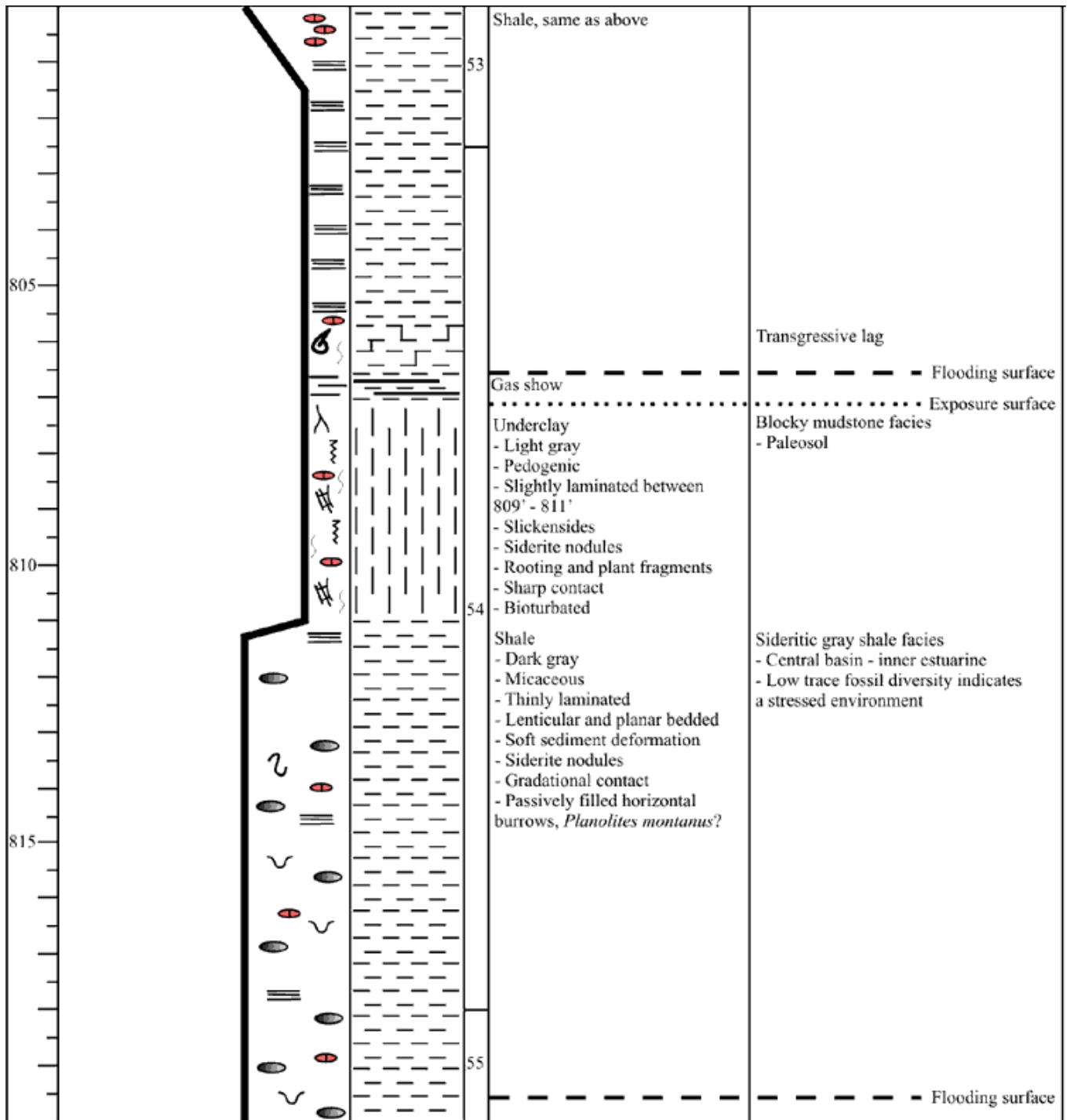


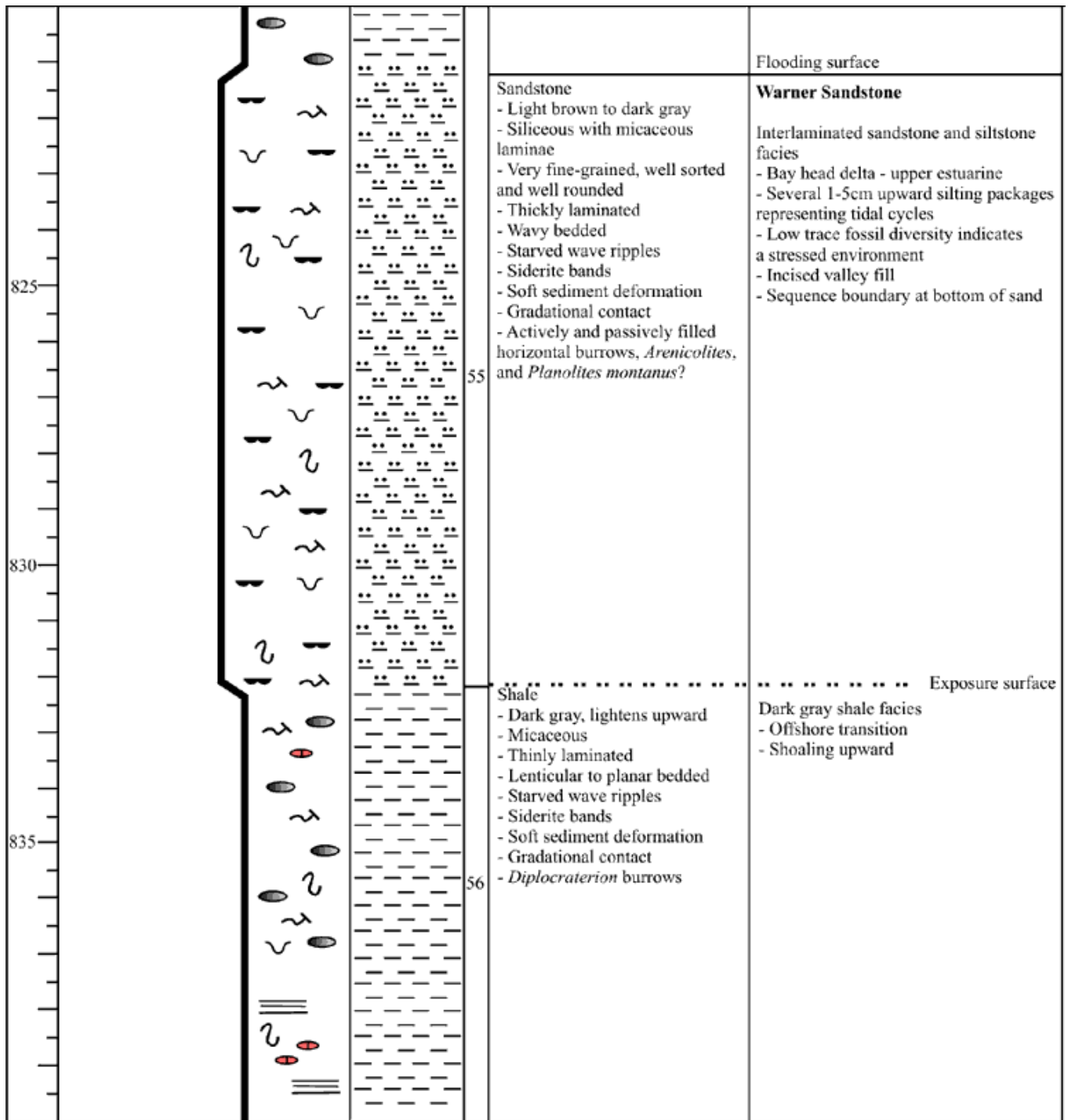


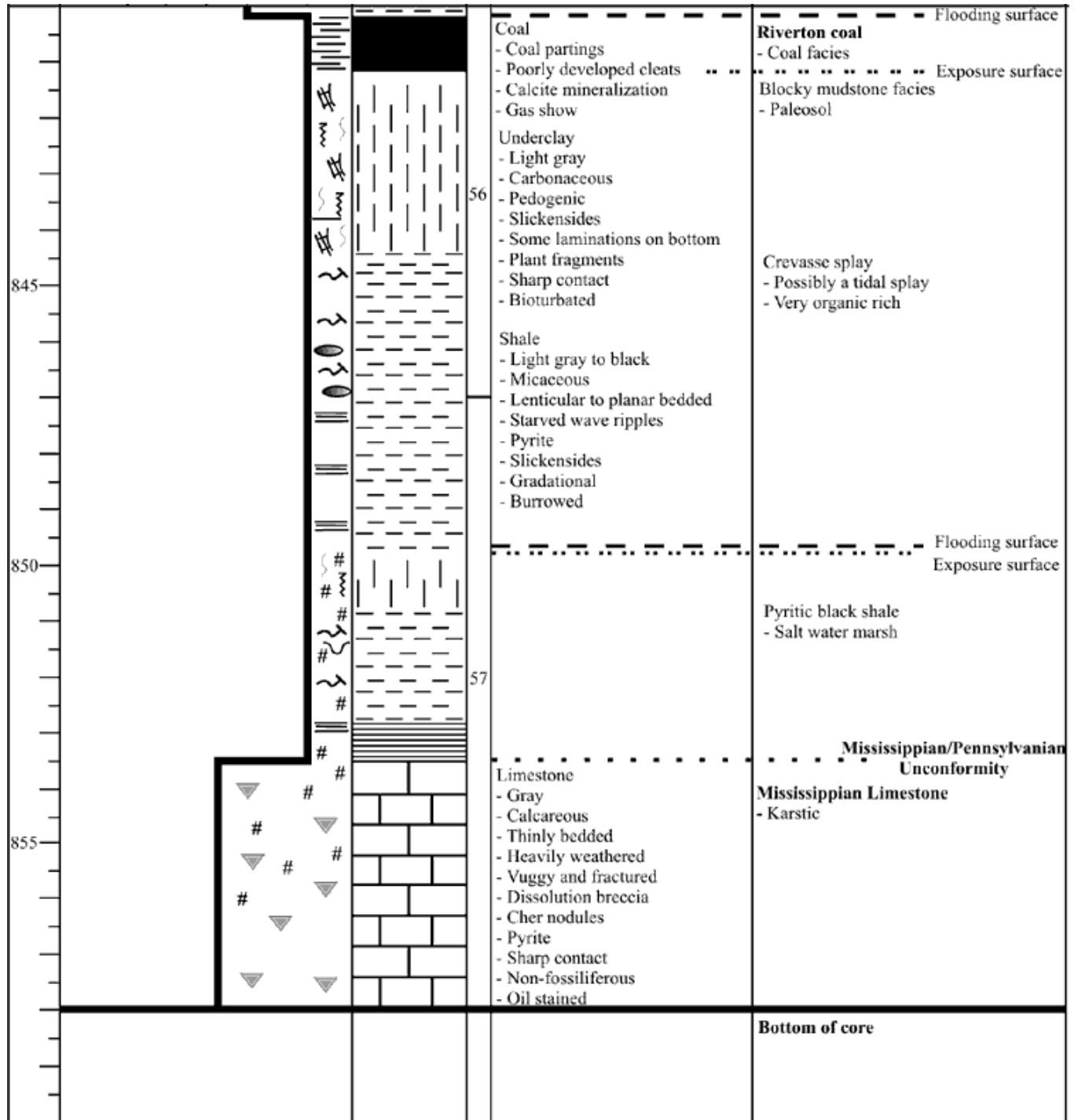






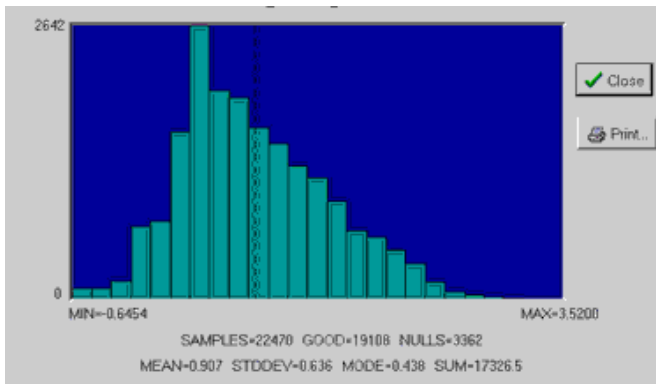




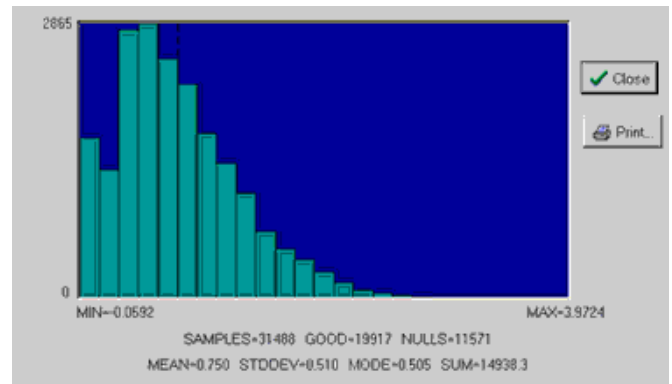


Appendix 2: Statistical distribution of coal thickness

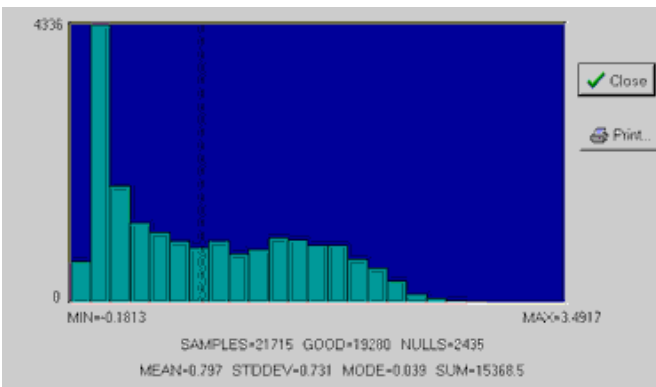
Summit coal



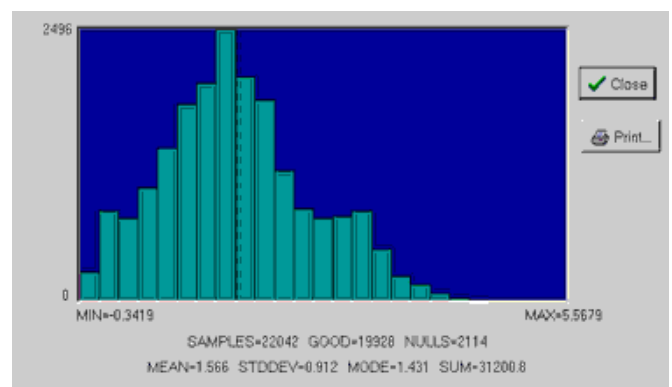
Mulky coal



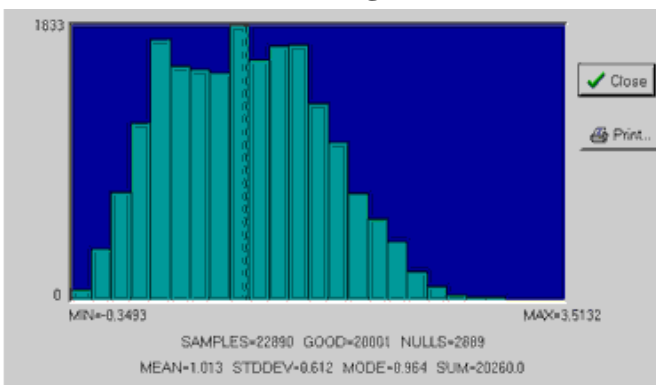
Iron Post coal



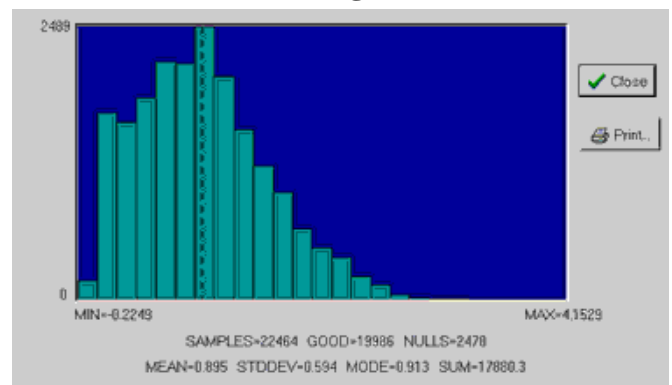
Bevier coal



Croweburg coal

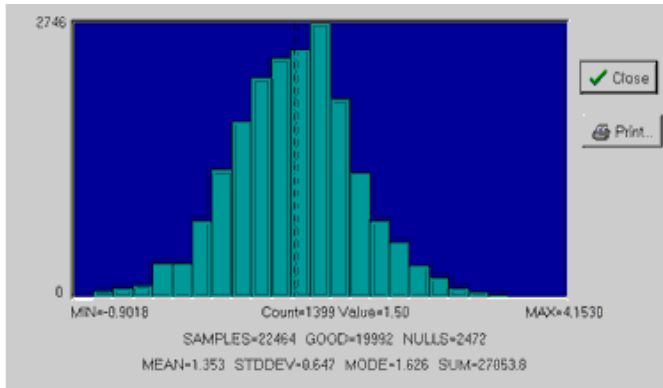


Fleming coal

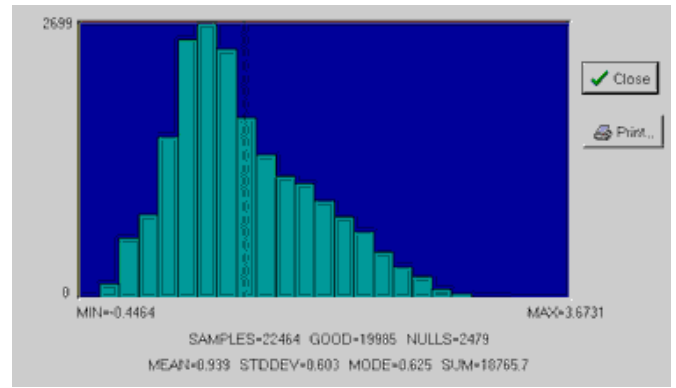


Mineral coal

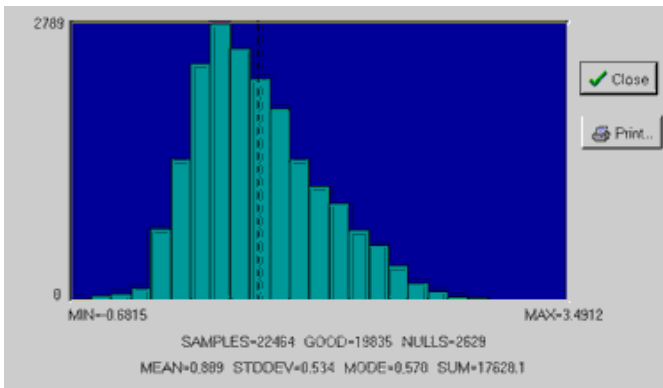
Scammon coal



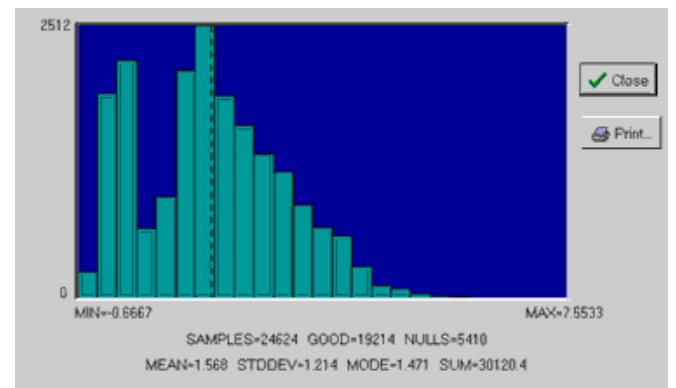
Tebo coal



Weir-Pittsburg coal



Aw coal



Riverton coal

