

U.S. DEPARTMENT OF THE INTERIOR U.S. GEOLOGICAL SURVEY













Hell





Location of Shawmut anticline measured sections. Numbers correspond to footages on sections

00-Mt-15 Partial section of Livingston Group Sec. 33, T. 1 S., R. 12 E.







00-Mt-16

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Partial section of Livingston Group Sec. 22, T. 1 S., R. 12 E.

Basaltic and andes

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00-Mt-16 Trough crossbeds from Livingston Group (23 readings)



Locations of partial sections of Livingston Group





· Covered - Partially covered Relative resistance to weathering Interbedded lithologies Large-scale lateral accretion Irregular bedding surface Pinches out along outcrop Channel-formfeature -9/ Lenses, lithologies shown

LITHOLOGY

EXPLANATION

INTERNAL CHARACTERISTICS GRAIN-SIZE



LITHOLOGY		
	Sandstone	
	Siltstone	
	Claystone, clayshale, or mudstone	
	Limestone	
	Coal	
	Calcareous or dolomitic	
~~~	Ripup clasts	
-	Carbonaceous or woody material	
	Concretions: H, hemati , calcareous	
00000	Conglomeratic	

# DETAILED MEASURED SECTIONS OF SELECTED UPPER CRETACEOUS AND PALEOCENE INTERVALS, CRAZY MOUNTAINS BASIN, MONTANA

By Ronald C. Johnson and Thomas M. Finn 2005

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		Sub-angular chert pebbles to 1/2 in.
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CHAPTER A, PLATE 5

00-Mt-15 Trough crossbeds from Livingston Group (84 readings)

INTERNAL CHARACTERISTICS

\triangleleft	Climbing ripples
~~~	Symmetrical ripples
$\sim\sim$	Ripples, nonspecific
ואורעע	Crossbeds, less than 1 ft
uuu	Crossbeds, from 1 to 3 ft
JJJJ	Crossbeds, greater than 3 ft
	Horizontal laminae
I	Indistinct laminae
	Low-angle cross laminae
<u>_</u>	Hummocky bedding
$\sim$	Irregular laminae
R	Contorted laminae
$\downarrow$	Feature near base of bed
$\uparrow$	Feature near top of bed
$\bigcup$	Bivalves
中	Horizontal burrows
₽	Vertical burrows
×	Oblique burrows
*****u	Veinlets
в	Plant remains
Х	Root casts

hematitic