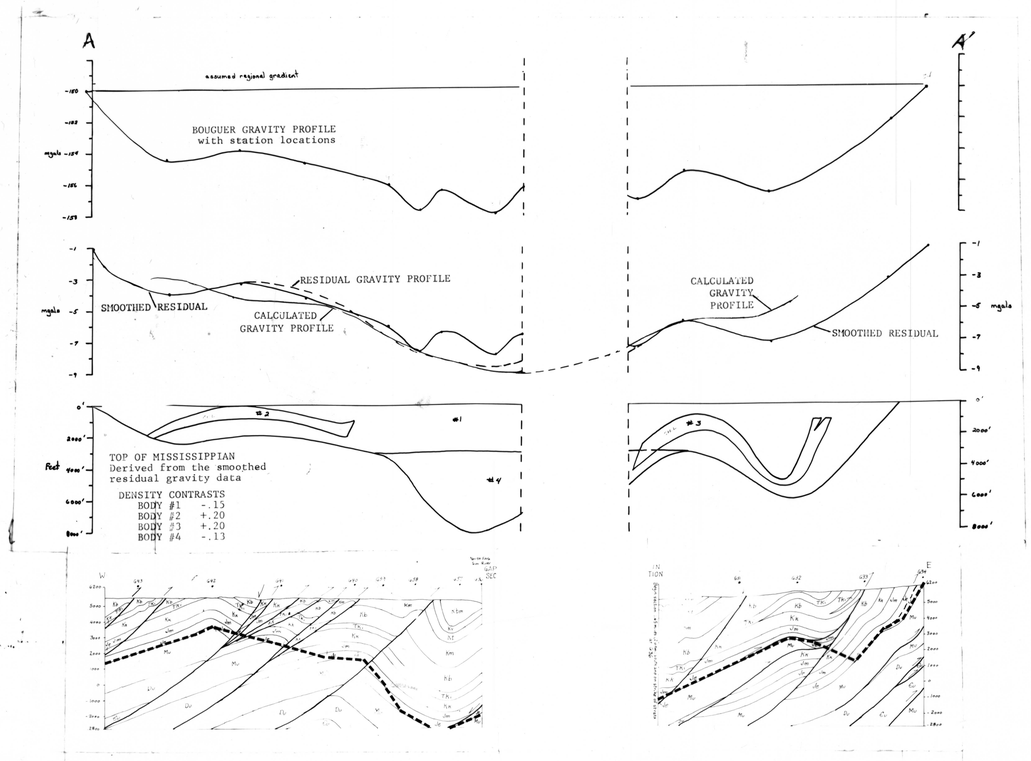


GRAVITY MODELING SURFACE
(Approximate top of Mississippian on section)

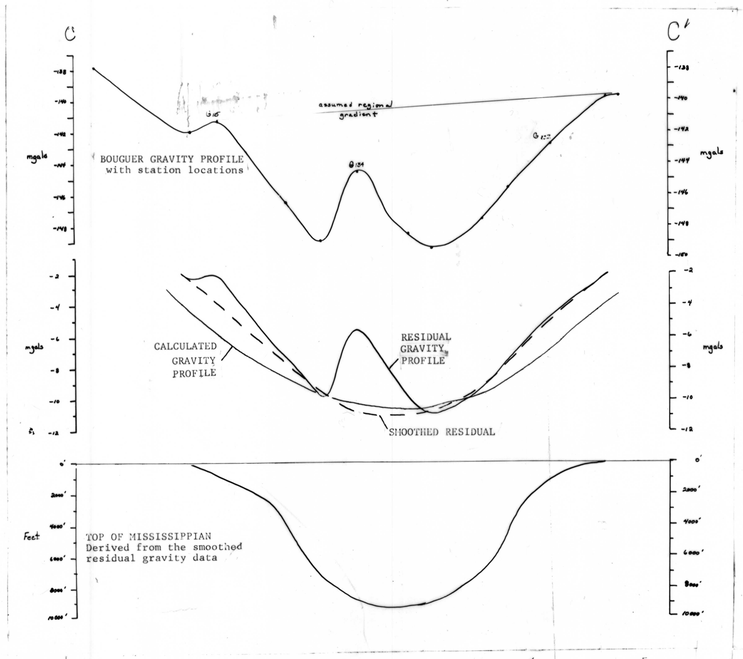
GRAVITY PROFILE A-A' AND GEOLOGIC CROSS SECTION ALONG MOOSE AND BRIDGE CREEKS

EXPLANATION

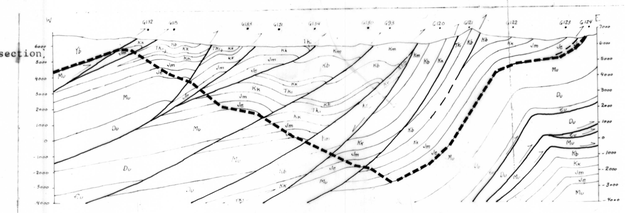
TKt	Sills	CRETACEOUS OR TERTIARY
Ktm	Two Medicine Formation	CRETACEOUS
Kv	Virgelle Sandstone	
Kt	Telegraph Creek Formation	
Km	Marias River Shale	
	UNCONFORMITY	
Kb	Blackleaf Formation	
	UNCONFORMITY ?	
Kk	Kootenai Formation	
	UNCONFORMITY ?	
Jm	Morrison Formation 1/	JURASSIC
Je	Ellis group	JURASSIC AND MISSISSIPPIAN
	UNCONFORMITY	
Mu	Sedimentary rocks	MISSISSIPPIAN
	UNCONFORMITY	
Du	Sedimentary rocks	DEVONIAN
	UNCONFORMITY	
Cu	Sedimentary rocks	CAMBRIAN AND PRECAMBRIAN Z
	UNCONFORMITY	
Zd	Sills	PRECAMBRIAN Z
Ym	McNamara Formation	PRECAMBRIAN Y
Yb	Bonner Quartzite	
Yms	Mount Shields Formation	
Ysh	Shepperd Formation	
Ysn	Snowslip Formation	
Yh	Helena Formation	
Yes	Empire and Spokane Formations	

Fault, showing direction of movement

1/ Includes unnamed formation of lower Cretaceous age. Both formations mapped as JK on plate 1



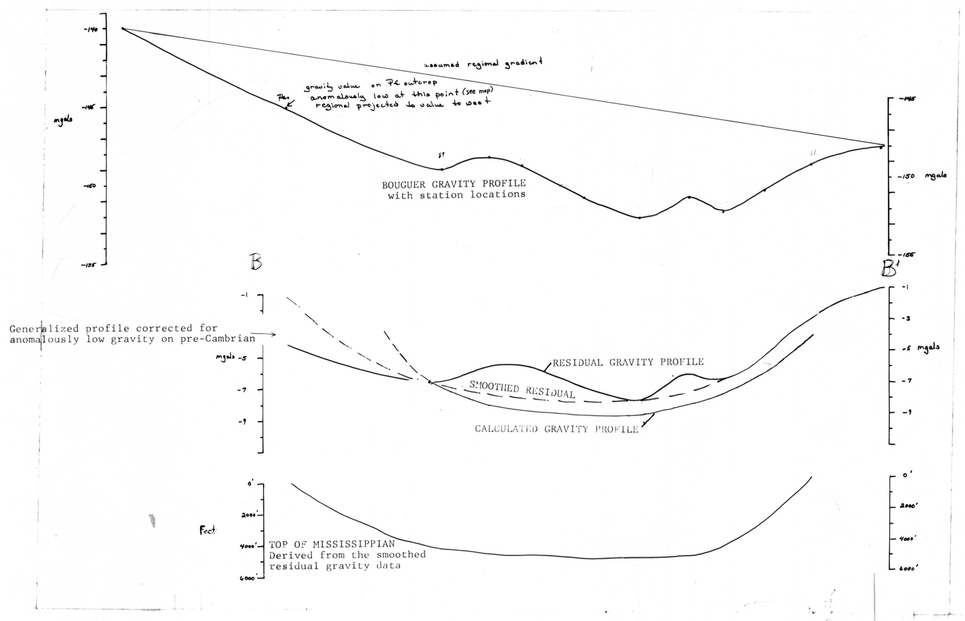
GRAVITY MODELING SURFACE
(Approximate top of Mississippian on section)



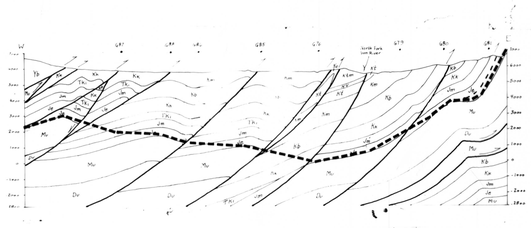
GRAVITY PROFILE C-C' AND GEOLOGIC CROSS SECTION ALONG BASIN AND BOWL CREEKS

On the smoothed residual profile the short wave length anomalies due to the near surface sills and titaniferous magnetite sandstone in the upper part of the Virgelle Sandstone have been removed.

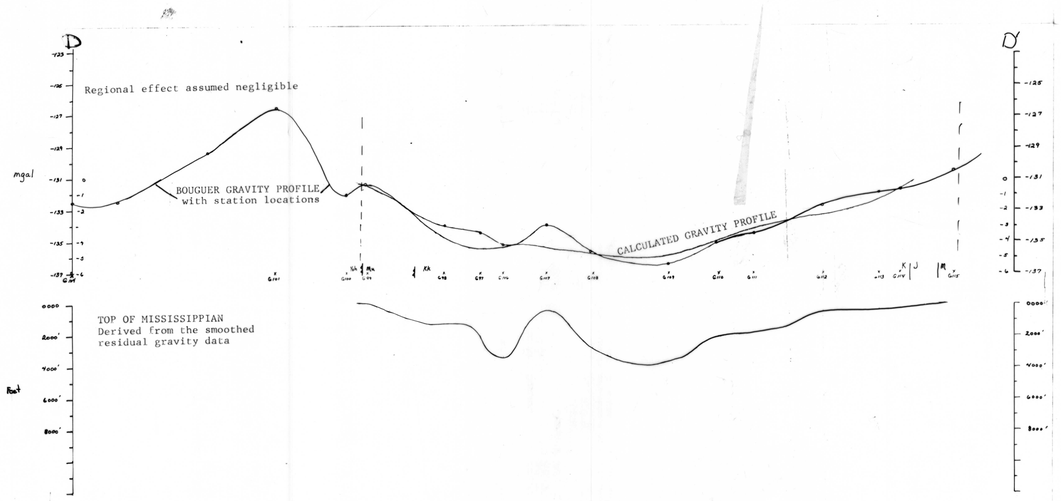
On the calculated gravity profiles the geologic cross sections were constructed by M. R. Mudge using the general constraints of the gravity model of the "top of Mississippian" derived from the smoothed gravity data.



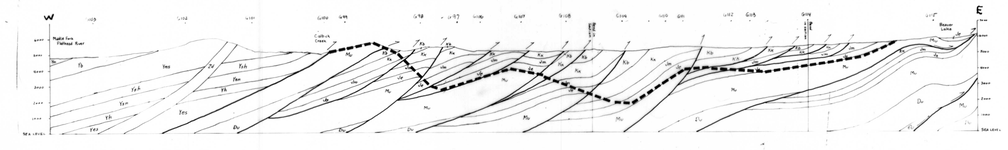
GRAVITY MODELING SURFACE
(Approximate top of Mississippian on section)



GRAVITY PROFILE B-B' AND GEOLOGIC CROSS SECTION ALONG LICK AND ROUTE CREEKS



GRAVITY MODELING SURFACE
(Approximate top of Mississippian on section)



GRAVITY PROFILE D-D' AND GEOLOGIC CROSS SECTION ALONG MIDDLE FORK FLATHEAD RIVER AND COX CREEK

U.S. Geological Survey
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This map is preliminary and has not been edited or reviewed for conformity with Geological Survey standards or nomenclature.

SCALE 1:48,000

PLATE 5.-- *GRAVITY PROFILES AND GEOLOGIC CROSS SECTIONS IN THE EASTERN PART OF THE BOB MARSHALL WILDERNESS, NORTHWESTERN MONTANA*