EAST FORK TIGLUKPUK CREEK, ALASKA

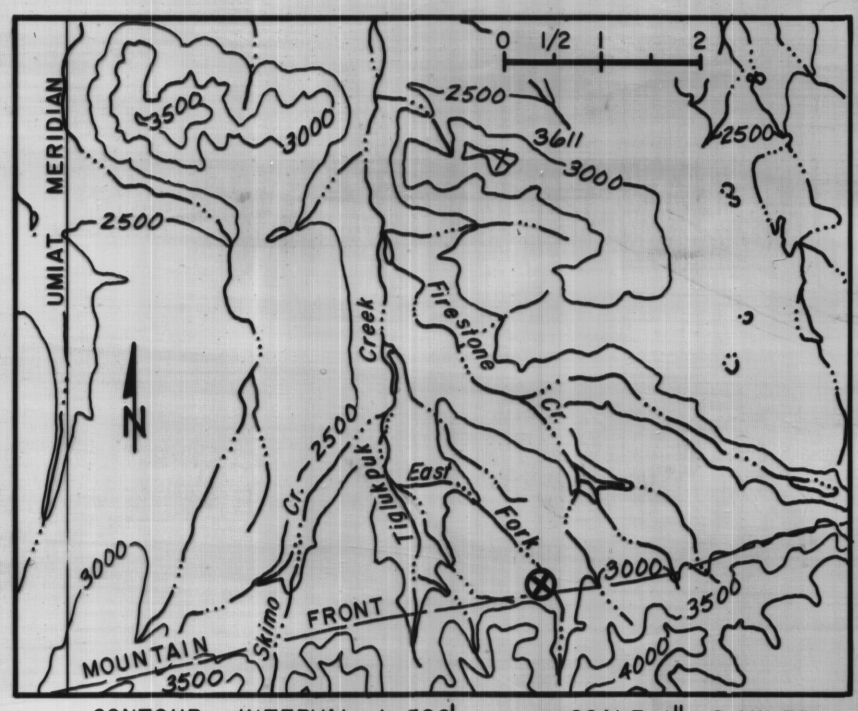
STRATIGRAPHIC SECTION

LAT. 68° 18' 36" N
LONG. 151° 49' 00" W

Measured with Jacob Staff, June 1983
by Dirk A. Bodnar and
Jerome Siok

LEGEND

- Radiolaria
- Foraminifera
- Brachiopods
- Pelecypods
- Orthoconic Nautiloids
- Limestone
- Silicified Limestone (very cherty)
- Shale
- Limestone Nodules
- Ostracodes
- Conodonts
- Ammonites
- Belemnites
- Trace Fossils
- Siltstone, Dolomitic Siltstone
- Bedded Chert
- Fossiliferous
- Cherty Nodules



CONTOUR INTERVAL: 1=500' SCALE: 1"= 2 MILES

VERTICAL SCALE : 1 inch = 4 meters

SERIES	STAGE	FORMATION	MEMBER	Cumulative Thickness (Meters)	GRAPHIC COLUMN	SAMPLE NO.	FOSSILS	LITHOLOGY DESCRIPTION
								Top of measured section; chert continues as exposed below for another 70m. down creek; not measured due to lack of time and a better exposure nearby on Tiglukpuk Creek (Figure 21).
MIDDLE TRIASSIC?	ANISIAN?		CHERT			83B0313		Black and orange weathering cherts with interbeds of black shale. Some wispy laminations and thin limestone beds. Dominantly chert.
						83B0312		
								Interbedded black silty shale and limy green silty shale. Gradational with beds above and below. Marker bed.
				35		83B0311		Black non-calcareous fissile shale, with a few rhythmically interbedded green silty shale beds near the top.
								Light green argillaceous dolomite, weathers platy.
								Black papery shale with minor thin light green shale interbed.
	SPATHIAN			30		UA-2160		
						83B0309		
				25				Black fissile shale, non-calcareous, interbedded with nodular thinly laminated limestone beds up to 20 cm thick. Limestone beds occur every meter and weather tan-orange. Nodular limestone contains fossils. Pelecypods ("Posidonia"), trace fossils and fish(?) remains. (Phycodes and Haentzschelinia)
						83B0308		
				20		83B0306A		Black silty shale, non-calcareous, orange and black weathering. A few thin lenticular dolomite beds.
						83B0306		Dark gray limestone interbedded with black calcareous shale. Limestone thinly laminated, medium to fine-grained, crystalline, and strongly fetid. Beds thicken upward and are gradational with calcareous shale below.
LOWER TRIASSIC	SMITHIAN	OTUK FORMATION	SHALE MEMBER	15		83B0305		
				10		83B0304		Very black silty shale, non-calcareous, weathers orange and black, contains a few thin (2-10 cm) lenticular light gray fine-grained dolomite beds and white clay partings near base of interval. Shale becomes calcareous at top.
	DIENERIAN?!			5		83B0303		
						83B0302		
						83B0301		Dark gray fine-grained doloarenite, thinly laminated.
?	?	?	?	0				Black silty shale, non-calcareous, fissile weathering.

Base measured section covered. 29.6 m stratigraphically to top of measured section of Siksikpuk Formation (Jerome Siok, in prep., 1984).

Strike N 75° W
Dip 45° S