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Genevieve Atwood, Director
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MAP 67
PRELIMINARY GEOLOGIC MAP OF
THE JOES VALLEY RESERVOIR QUADRANGLE
SANPETE AND EMERY COUNTIES, UTAH

SYSTEM	SERIES	FORMATION	SYMBOL	LITHOLOGY	THICKNESS IN FEET (METERS)	DESCRIPTION
QUATERNARY		Unconsolidated deposits	Qal, Qc, Qf, Qls, Qm		0-66+ (0-20+)	alluvium, colluvium, alluvial fans, landslide deposits, and moraines
TERTIARY	Paleocene	Flagstaff Limestone	Tfb		460+ (140+)	limestone, white, with minor light colored shale, channel sandstone, gypsum and chert
			Tfa		385 (117)	shale and limestone, dark blue-gray, thin-bedded
		North Horn Formation	TKnd		427 (130)	sandstone, conglomeratic sandstone, light gray, olive gray or pale pink, medium to coarse-grained, locally has variegated shales and mudstones
			TKnc		377 (115)	limestone, micritic gray brown to tan and fossiliferous in lower part, sandstone, light gray, gray-orange pink or pale orange, mostly fine-grained, and calcareous
			TKnb		371 (113)	sandstone, dark yellow orange weathering, medium to thick-bedded, and fine-grained, weathers to angular blocks
			TKna		410 (125)	sandstone, gray to yellow gray, fine- to medium-grained interbedded with conglomerate and gray limestone
UPPER CRETACEOUS		Price River Formation	Kpu		295 (90)	sandstone, yellow to yellow-brown, fine- to medium-grained, generally thin-bedded and poorly cemented, slope forming, with an occasional ledge-forming thick bedded sandstone
			Kpl		394 (120)	sandstone, yellow to yellow brown, fine- to medium-grained, medium to thick bedded, well cemented, crossbedded, ledge-forming with some shaly interbeds
		Castlegate Sandstone	Kc		328 (100)	sandstone, yellow to dark yellowish orange weathering, fine- to medium-grained, calcareous, forms prominent cliffs
		Blackhawk Formation	Kb		525 (160)	interbedded sandstone, muddy sandstone, siltstone, shale, shaly sandstone, shaly to thickbedded, contains coal-beds in the unexposed subsurface (not shown), generally slope forming

EXPLANATION

QUATERNARY
- Qal — Alluvium
- Qc — Colluvium
- Qf — Alluvial fan
- Qls — Landslide deposit
- Qm — Moraine

TERTIARY
- Tfb — Flagstaff Limestone, micritic limestone member
- Tfa — Flagstaff Limestone, bioclastic limestone member
- TKnd — North Horn Formation, variegated shale - mudstone member
- TKnc — North Horn Formation, limestone - sandstone member

UPPER CRETACEOUS
- TKnb — North Horn Formation, sandstone member
- TKna — North Horn Formation, sandstone - limestone member
- Kpu — Price River Formation, upper slope member
- Kpl — Price River Formation, lower resistant member
- Kc — Castlegate Sandstone
- Kb — Blackhawk Formation

SYMBOLS

- Contact — *Dashed where approximately located; dotted where inferred*
- Normal fault — *Dashed where approximately located; dotted where concealed. U, upthrown side; D, downthrown side*
- Strike and dip of beds
- Anticline — *Showing trace of axial plane*
- Syncline — *Showing trace of axial plane*
- Structure Contours — *Drawn on top of Blackhawk Formation contour interval 50 feet*

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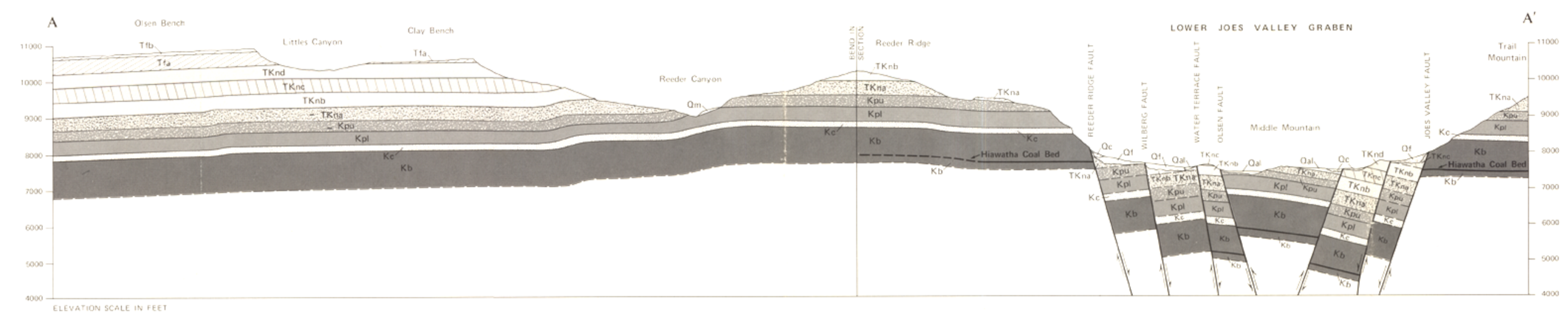
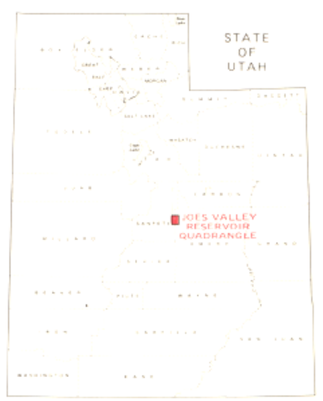
July 1982

By John M. Kitzmiller II

Klaus D. Gurgel, Cartographic Editor

Brent R. Jones, Cartographer





LOCATION MAP