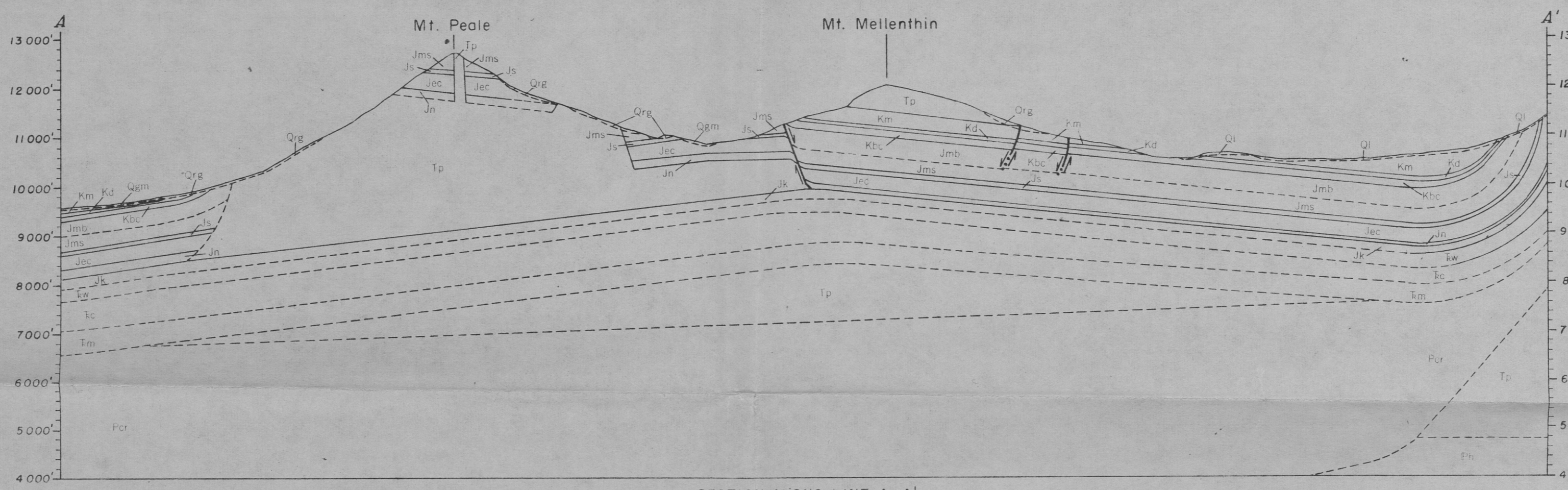




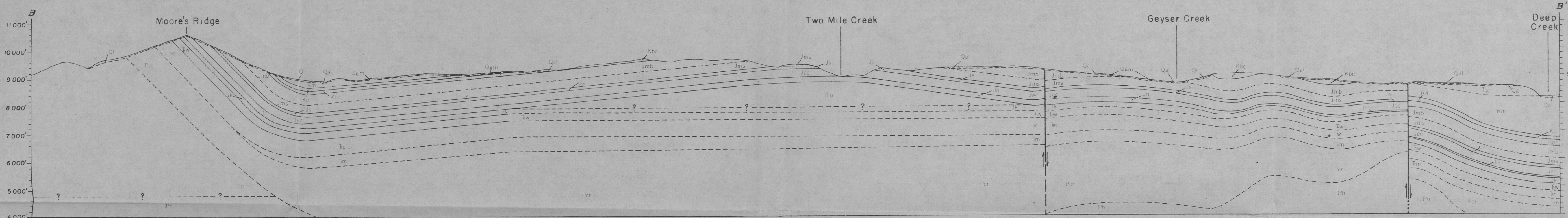
Geology by W.D. Carter and
J.L. Gaultier, assisted by
J.C. Warman and W.R. Barton,
1955-56.

Base map by Topographic Division,
U.S. Geological Survey, 1954.

Geologic Group	Formation	Description	Symbol
QUATERNARY	Qal	Alluvium Recent valley fill and stream deposits; sandy silt, probably chiefly wind deposited, found on mesa tops; brown and black soils supporting thick vegetation around mountains.	Qal
	Qrs	Rock glacier Igneous landslide debris forming lobate tongue-like deposits having hummock-and-hollow topography. Found at the base of major peaks of the La Sal Mountains resting on glacial debris.	Qrs
	Ql	Landslide deposits	Ql
Pleistocene and Recent	Qm	Glacial moraine Till and erratics that obscure underlying bedrock.	Qm
	Qc	Alluvial gravels Unconsolidated gravels composed of igneous and sedimentary debris; form fan-shaped deposits at the foot of the mountains.	Qc
Pliocene(?)	Tg	Fanglomerate Consolidated stream gravels composed of igneous and sedimentary debris cemented by calcium carbonate. Deposited before final folding.	Tg
	Tcd	Clastic dikes Angular and rounded fragments of sedimentary rock forming dike-like masses that transect sedimentary beds. Found in area of igneous dike complex.	Tcd
Miocene(?)	Tp	Morite porphyry Tp - laccoliths; Tps - stocks; and Td - dikes. Geology and petrology of igneous rocks after Hunt, C. B., in preparation, Structural and igneous geology, La Sal Mountains, Utah. U. S. Geol. Survey Prof. Paper.	Tp
	Unconformity	Unconformity	Unconformity
Upper Cretaceous	Kn	Mancos shale Dark-gray soft, fissile shale and siltstone.	Kn
	Ka	Dakota sandstone Yellowish lenticular sandstone and conglomerate with interbedded carbonaceous shale and impure coal.	Ka
Lower Cretaceous	Kbc	Burro Canyon formation White, gray, light orange-brown sandstones and conglomerate with interbedded green and purplish shale; overlain by light-green sandstone, siltstone, and shale with interbedded chert, impure limestone, and thin-bedded quartzite.	Kbc
	Jab	Morrison formation Variegated shale and mudstone; white, gray, rusty-red, and buff sandstone; local thin limestone beds. Jab, Brushy Basin shale member, consisting largely of bentonitic shale, but including some sandstone and conglomerate lenses containing small, widely scattered uranium-vanadium deposits. Jas, Salt Wash sandstone member, with more numerous and thicker sandstone beds. Uppermost continuous sandstone layer contains most of the known uranium-vanadium deposits within and around the map area.	Jab
Upper Jurassic	Jas	Entrada sandstone and Carmel formation undifferentiated Orange, buff, and white fine-grained massive and crossbedded Entrada sandstone at the top. Red sandstone and mudstone of the Carmel formation or lower Entrada sandstone at the base.	Jas
	Jm	Moenkopi formation Red, chocolate-brown to gray, thin regularly bedded siltstone with thin beds of ripple-marked sandstone. Arkosic sandstone bed contains one known occurrence of uranium-vanadium along northeast side of Paradox Valley to the east.	Jm
Tertiary	Unconformity	Unconformity	Unconformity
	Par	Cutler and Rico formations undifferentiated Maroon, red, mottled light-red, and purple conglomerate, arkose, and arkosic sandstone. Thin beds of sandy mudstone. Interbedded reddish and gray marine limestone at base. Arkosic sandstone of the Cutler contains uranium-vanadium deposits in the Lisbon Valley area to the southwest.	Par
Cretaceous	Ph	Hermosa formation (shown in section only) Salt and gypsum overlain by arkose, red sandstone, and limestone. Not exposed in mapped area. Shown in sections as probably underlying laccoliths of North and South Mountains.	Ph
	Contact	Contact (Dashed where approximately located; dotted where concealed)	Contact
Jurassic	Fault	Fault, showing dip (Dashed where approximately located; dotted where concealed; U, upthrown side; D, downthrown side)	Fault
	High angle fault	High angle fault (Dashed where approximately located; dotted where concealed; U, upthrown side; D, downthrown side)	High angle fault
San Rafael group	Strike and dip of beds	Strike and dip of beds	Strike and dip of beds
	Horizontal beds	Horizontal beds	Horizontal beds
Middle and Upper Jurassic	Structure contour	Structure contour Drawn on the top of the Entrada sandstone or on the base of the Burro Canyon formation and projected to the top of the Entrada. Average vertical separation 500 feet; dashed where approximately located; short dashes indicate projection above surface. Contour interval 100 feet in southeastern portion of map; 200 feet in mountainous and/or structurally complicated areas.	Structure contour
	Mineral deposits	Mineral deposits Elemental symbols denote type of deposit: Cu, copper; Fe, iron; Mn, manganese; U-V, uranium-vanadium.	Mineral deposits
San Rafael group	Adit	Adit	Adit
	Prospect	Prospect	Prospect



SECTION ALONG LINE A-A'

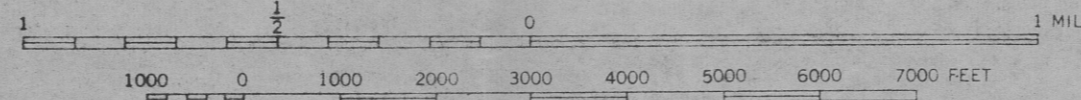


SECTION ALONG LINE B-B'

PRELIMINARY GEOLOGIC MAP OF THE MT. PEALE INW QUADRANGLE, SAN JUAN COUNTY, UTAH.

BY
William D. Carter and James L. Gaultier

SCALE 1:24000



APPROXIMATE MEAN
DECLINATION, 1954

CONTOUR INTERVAL 40 FEET
DATUM IS MEAN SEA LEVEL

