Martner_st_1949

CORRELATION CHART OF THE GEOLOGIC COLUMN

CHART I

TERMINOLOGY USED IN THIS REPORT

- EOCENE: BRIDGER FORMATION; GREEN RIVER FORMATION; WASATCH GROUP
- CRETACEOUS: LEWIS FORMATION; MESAVERDE GROUP; MANCOS GROUP (HILLIARD FORMATION, FRONTIER FORMATION, ASPEN FORMATION); DAKOTA GROUP
- JURASSIC: MORRISON FORMATION; SAN RAFAEL GROUP (CURTIS FORMATION, ENTRADA FORMATION, CARMEL FORMATION); NUGGET FORMATION
- TRIASSIC: CHINLE FORMATION; SHINARUMP FORMATION; WOODSIDE FORMATION
- PERMIAN: PARK CITY FORMATION
- PENNSYLVANIAN: WEBER FORMATION; LOWER CARBONIFEROUS UNDIFFERENT. (MORGAN FM.)
- MISSISSIPPIAN: LOWER CARBONIFEROUS UNDIFFERENT. (MADISON FM.)
- DEV. ?, SIL. ?, ORD. ?, CAMBRIAN: CAMBRIAN TO MISSISSIPPIAN
- ALGONKIAN: UINTA MOUNTAIN GROUP
- ARCHEAN: RED CREEK QUARTZITE

NAMES USED BY VARIOUS WORKERS IN THE AREA OF THIS REPORT FOR THE LITHOLOGIC UNITS SHOWN IN THE LEFT HAND COLUMN

FORTIETH PARALLEL SURVEY, KING[47] (1877–8)
- BRIDGER
- GREEN RIVER
- VERMILION CREEK
- LARAMIE (CRETACEOUS)
- FOX HILLS
- COLORADO GROUP: FORT PIERRE GROUP; ?—?; NIOBRARA GROUP; FORT BENTON SHALE
- DAKOTA
- JURASSIC: CLAYS; MIDDLE LMST.; SANDSTONES AND SANDY SHALES (GYPSUM); LOWER LMST.
- TRIASSIC: UNITS 1,2,3 (VOL.I, P.260); UNITS 4,5,6 (VOL.I, P.260)
- PERMO-CARBONIFEROUS
- UPPER COAL MEASURES (CARBONIFEROUS)
- MISINTERPRETED AND PLACED IN ARCH.
- WEBER QUARTZITE (MIDDLE COAL MEASURES, CARBONIFEROUS)
- ARCHEAN

POWELL[60] (1876)
- BRIDGER
- UPPER GREEN RIVER; LOWER GREEN RIVER
- BITTER CREEK
- NOT RECOGNIZED
- POINT OF ROCKS GROUP
- SALT WELLS GROUP
- SULPHUR CREEK GROUP
- HENRYS FORK GROUP
- FLAMING GORGE GROUP: BADLANDS SANDSTONES (JURA); MID-GROUP LIMESTONES; UNIO BADLANDS SANDSTONES; WHITE CLIFF LMSTS.
- WHITE CLIFF GROUP
- VERMILION CLIFF GROUP (TRIAS)
- SHINARUMP GROUP (TRIAS)
- UPPER AUBREY GROUP: BELLEROPHON LMST.; YAMPA SANDSTONE
- LOWER AUBREY GROUP
- RED WALL GROUP
- BLANK
- LODORE (CARBONIFEROUS)
- UINTA GROUP (DEVONIAN)
- RED CREEK QUARTZITE

WHITE[88] (1878)
- BRIDGER GROUP
- GREEN RIVER GROUP
- WASATCH GROUP
- NOT RECOGNIZED
- FOX HILLS GROUP
- COLORADO GROUP
- DAKOTA
- JURA-TRIAS
- CARBONIFEROUS
- BLANK
- UINTA SANDSTONE* (SILURIAN)
- ARCHEAN

GALE[25,26] (1907–10)
- TERTIARY FORMATIONS
- LEWIS
- MESAVERDE
- MANCOS
- DAKOTA
- "FLAMING GORGE"
- WHITE CLIFF
- TRIASSIC
- NOT MAPPED

SCHULTZ[68]** (1920)
- BRIDGER FORMATION
- GREEN RIVER FORMATION
- WASATCH FORMATION
- LEWIS
- MESAVERDE
- BLAIR
- HILLIARD
- FRONTIER SANDSTONE
- ASPEN SHALE
- BECKWITH FORMATION
- TWIN CREEK LIMESTONE
- NUGGET SANDSTONE
- ANKAREH SHALE (TRIASSIC?)
- THAYNES FORMATION (?)
- ?
- WOODSIDE SHALE (TRIASSIC)
- PARK CITY FORMATION
- WEBER QUARTZITE
- OLDER PENNSYLVANIAN
- MISSISSIPPIAN
- DEVONIAN TO BASE OF CAMBRIAN QUARTZITE UNDIFFERENTIATED
- EARLIER CAMBRIAN AND PRE-CAMBRIAN UNDIFFERENTIATED
- RED CREEK QUARTZITE

FORRESTER[23] (1937)
- BRIDGER
- GREEN RIVER–WASATCH
- LEWIS ?
- MESAVERDE GROUP
- DAKOTA-MANCOS GROUP
- MORRISON
- TWIN CREEK–NUGGET
- TRIASSIC: ANKAREH, THAYNES, WOODSIDE
- PARK CITY FORMATION
- WEBER AND INTERCALATED
- ?—?
- MADISON
- PINE VALLEY–OPHIR (CAMBRIAN)
- UINTA SERIES
- RED CREEK

BRADLEY[10] (1936)
- BRIDGER FORMATION
- GREEN RIVER FORMATION
- WASATCH FORMATION
- CRETACEOUS UNDIFFERENTIATED
- JURASSIC AND TRIASSIC UNDIFFERENTIATED
- CARBONIFEROUS UNDIFFERENTIATED
- NOT MAPPED
- UINTA MOUNTAIN GROUP
- RED CREEK QUARTZITE

THOMAS AND KRUEGER[81] (1946)
- MORRISON (NOT DISCUSSED)
- SAN RAFAEL GROUP: CURTIS; ENTRADA; CARMEL
- NAVAJO
- STANAKER
- GARTRA GRIT
- WOODSIDE
- PARK CITY
- WEBER (NOT DISCUSSED)

BAKER, DANE, AND REESIDE[3]**** (1936)
- MORRISON (NOT DISCUSSED)
- SAN RAFAEL GROUP: CURTIS FORMATION; ENTRADA FORMATION; CARMEL FORMATION(?)
- NAVAJO SANDSTONE(?)
- ANKAREH FORMATION

WEEKS[86] (1907)
- TERTIARY
- CRETACEOUS
- TRIAS
- ?—?
- JURA
- PERMO-CARBONIFEROUS
- WEBER FORMATION
- MISSISSIPPIAN SERIES
- NOT MENTIONED
- OGDEN QUARTZITE
- LODORE SHALES
- "UINTA" FORMATION (PRE-CAMBRIAN)

TERMINOLOGY USED BY RECENT WORKERS IN ADJACENT AREAS WITH TENTATIVE CORRELATIONS TO THE LEFT HAND COLUMN

SOUTH FLANK OF UINTAS (ASHLEY CREEK–WHITEROCKS AREA), KINNEY AND ROMINGER[47] (1947)
- MANCOS SHALE: UPPER MEMBER; FRONTIER SANDSTONE; MOWRY SHALE
- DAKOTA SANDSTONE
- MORRISON FORMATION
- CURTIS FORMATION
- ENTRADA FORMATION
- CARMEL FORMATION
- NAVAJO SANDSTONE
- CHINLE FORMATION
- SHINARUMP CONGLOMERATE
- MOENKOPI FORMATION
- PARK CITY FORMATION
- WEBER SANDSTONE
- MORGAN FM.: UPPER MEMBER; LOWER MEMBER
- MISSISSIPPIAN: BLACK SHALE; MISSISSIPPIAN LIMESTONE UNDIFFERENTIATED
- CAMBRIAN (?)
- UINTA MOUNTAIN GROUP

CENTRAL WYOMING (PRINCIPALLY WIND RIVER BASIN), LOVE, ET AL[41,42,43] (1945)
- CODY SHALE
- FRONTIER FORMATION
- MOWRY SHALE
- THERMOPOLIS SH.: SHALE MEMBER; MUDDY SS. MEMBER; SHALE MEMBER
- CLOVERLY FM.: "RUSTY BEDS" ZONE; MIDDLE AND BASAL ZONES
- MORRISON FORMATION
- "UPPER SUNDANCE"
- "LOWER SUNDANCE"
- ?—?
- GYPSUM SPRINGS FORMATION
- ?—?
- NUGGET SANDSTONE
- POPO AGIE MEM.
- CHUGWATER FORMATION

SOUTH BAXTER BASIN, NIGHTENGALE, ET AL, QUOTED IN REF. 78, pg. 1281 (1946)
- CURTIS
- ENTRADA
- TWIN CREEK
- NUGGET
- JELM
- ?—?

BAXTER BASIN, SEARS[71] (1925)
- BRIDGER FORMATION
- GREEN RIVER FORMATION
- WASATCH FORMATION***
- LEWIS SHALE***
- MESAVERDE GROUP: ALMOND FORMATION; ERICSON SANDSTONE; ROCK SPRINGS FM.; BLAIR FORMATION
- BAXTER SHALE
- FRONTIER FORMATION
- ASPEN SHALE
- DAKOTA SANDSTONE
- MORRISON FORMATION (CRETACEOUS)
- TWIN CREEK LIMESTONE
- NUGGET SANDSTONE
- ANKAREH(?) SHALE
- THAYNES(?) FORMATION
- WOODSIDE SHALE (TRIASSIC)
- PARK CITY FORMATION (PENNS. AND PERMIAN)

SAN RAFAEL SWELL, GILLULY AND REESIDE[28] (1927)
- MANCOS SHALE
- DAKOTA(?) SANDSTONE
- MORRISON FORMATION
- SAN RAFAEL GROUP: SUMMERVILLE (IN PART?); CURTIS FORMATION; ENTRADA SANDSTONE; CARMEL FORMATION
- NAVAJO SANDSTONE; KAYENTA SHALE (NOT REPRES.); WINGATE SANDSTONE
- CHINLE FORMATION
- SHINARUMP CONGLOMERATE
- MOENKOPI FORMATION
- ?
- KAIBAB LIMESTONE (IN PART?)

MOFFAT COUNTY, COLO., AND SOUTHERN SWEETWATER COUNTY, WYO., SEARS[70] (1925)
- BRIDGER FORMATION
- GREEN RIVER FORMATION
- WASATCH FORMATION
- LEWIS SHALE*****
- MESAVERDE GROUP: WILLIAMS FORK FORMATION; ILES FORMATION
- MANCOS SHALE
- DAKOTA SANDSTONE
- MORRISON FORMATION
- TWIN CREEK LIMESTONE
- NUGGET SANDSTONE
- ANKAREH(?) SHALE
- THAYNES(?) FORMATION AND WOODSIDE SHALE
- PARK CITY FORMATION
- WEBER QUARTZITE
- UNNAMED SEQUENCE OF LS., SH., SS., AND THIN CONGL.
- UNNAMED GRAY CHERTY LS., QUARTZOSE SS. AND CONGL. AT BASE
- RED AND GREEN SH., RED, GREEN, AND WHITE SS. PINK LS. CONGL.
- RED QUARTZITE AND SANDSTONE

STM

SUPERSCRIPT NUMBERS REFER TO REFERENCE NUMBERS IN BIBLIOGRAPHY OF THIS REPORT

* FROM TENTH ANN. REPT. OF U.S. GEOL. AND GEOG. OF TERR. (PG.23)—"DISPOSED TO AGREE" WITH JUDGMENT OF DR. HAYDEN AND PROF. MARSH AS TO SILURIAN AGE OF THIS GROUP

** REESIDE[61] ALSO USED THIS TERMINOLOGY BUT MISINTERPRETED THE TOP OF SCHULTZ'S PARK CITY, PLACING IT HIGHER IN THE SECTION

*** ALSO HAD "LARAMIE" FORMATION ABOVE LEWIS SHALE IN THE CRETACEOUS

**** THE AUTHORS HAVE CORRECTLY CORRELATED, IN A GENERAL MANNER, FIG.1, PG. 14, ALTHOUGH PLATE 21A, PG. 58–59, IS LABELED INCORRECTLY AND SHOULD BE CHANGED AS FOLLOWS:

SYMBOL	READS	SHOULD READ
T	TRIASSIC SHALES	TRIASSIC SHALES
E	NAVAJO SANDSTONE, CARMEL FORMATION, AND ENTRADA SANDSTONE	NAVAJO SANDSTONE (NUGGET OF THIS REPORT)
M	SOFT JURASSIC SHALES AND THIN LIMESTONES OF THE CURTIS FORMATION AND ALSO THE MORRISON FORMATION	CARMEL FORMATION
D	DAKOTA (?) SANDSTONE	ENTRADA SANDSTONE

THE FOLLOWING THICKNESSES ARE GIVEN:

CURTIS	75 FEET
"NUGGET SANDSTONE" {ENTRADA, CARMEL(?), NAVAJO (?)}	NEARLY 1000 FEET

THE FOLLOWING THICKNESSES WERE MEASURED FOR THIS REPORT:

CURTIS	150 FEET
ENTRADA	245 FEET
CARMEL	356 FEET
NUGGET	840 FEET

***** ALSO HAD "LARAMIE" IN CRETACEOUS AND "POST LARAMIE" IN EOCENE WITH UNCONFORMITY BETWEEN THEM