DETAILED GEOLOGIC MAP OF VICINITY OF MARSHALL'S SPRING

T. 9 N., R. 100 W. sixth principal meridian, Colorado

Scale 1:31 680

0 1000 2000 3000 4000 Feet

Surveyed in 1922

INDEX MAP

DIAGRAM OF TOWNSHIP

KEY MAP SHOWING CONDITION OF LAND SURVEYS

Old surveys

Recent resurveys

Scale 1:125,000

0 1 2 3 4 5 6 7 8 9 10 MILES

Section along line A–B

Section along line C–D

Section along line E–F

Section along line G–H

EXPLANATION

SEDIMENTARY ROCKS

Tbp — Brown's Park formation (Mostly soft chalk-white sandstone; beds of chert; conglomerate at base)

Tbc — Bishop conglomerate (Water worn and subangular pebbles and boulders in fine ground and sand matrix. In writer's opinion equivalent to basal conglomeratic of Browns Park formation.)

UNCONFORMITY

Tbg — Bridger formation (Ash-gray and greenish clay shale; gray, buff, and blue-green sandstone; light-gray and white marl, limestone, and chert; conglomerate)

UNCONFORMITY LOCALLY

Tg, Twc, Tgt, Tw — Green River and Wasatch formations (Green River formation: Gray flaky shale and oil shale, gray and buff sandstone and limestone, white tuffaceous and algae rock; Tg, chiefly Lenny shale member; Tgt, Tipton tongue, which interfingers with Wasatch formation. Wasatch formation: Variegated shale, gray, buff, and brown sandstone, conglomeratic, and coal beds; Tw, main body of Wasatch formation; Twc, Cathedral Bluffs tongue, which interfingers with Green River formation)

UNCONFORMITY

Ktl — Post-"Laramie" formation (Gray and brown sandstone; gray and drab shale; coal beds; conglomeratic at base)

UNCONFORMITY

Kl — "Laramie" formation (Sandstone, shale, and some coal)

Kls — Lewis shale (Gray marine shale and thin sandstones)

Kwf — Williams Fork formation (Gray, white, and brown sandstone; gray shale; valuable coal beds)

Ki — Iles formation (Gray, white, and brown sandstone predominant; gray shale; some coal beds)

Kmn — Mancos shale (Gray marine shale; thick lenticular beds of sandstone in upper 1,000 feet, and one thick sandstone near base)

Kd — Dakota sandstone (Gray sandstone, at places quartzitic; gray and green clay shale; conglomerate of black chert pebbles)

UNCONFORMITY

Kmm — Morrison formation (Variegated clay shale; thin sandstones)

Jtc — Twin Creek limestone (Gray thin-bedded limestone above; gray shale below)

Jn — Nugget sandstone (White cross-bedded sandstone)

Ru — Ankareh(?) shale (Triassic?), Thaynes(?) formation, and Woodside shale (Red, gray, and drab shale; thin beds of limestone and sandstone)

Cpc — Park City formation (White and gray limestone; chert)

Cw — Weber quartzite (White and buff quartzite)

Cop — Older Pennsylvanian (Limestone, shale, sandstone, and thin coal beds)

Cm — Mississippian (Gray cherty limestone)

Cu — Undifferentiated

UNCONFORMITY

D-C — Devonian(?) to later Cambrian (Red and green shale and sandstone)

UNCONFORMITY

€ — Earlier Cambrian and pre-Cambrian (Red quartzite and sandstone)

IGNEOUS ROCKS

Tb — Basalt

Structure contours on top of Mancos shale (Contour interval 250 feet. Base is sea level.)

Strike lines in Eocene formations

Anticlinal axis

Synclinal axis

Strike and dip (a, normal; b, overturned; c, horizontal)

Fault (D, downthrow; U, upthrow)

Boundaries taken from U. S. Geol. Survey Bull. 415 (Gale); and from Bull. 702 and unpublished map (Schultz)

Outcrop of sandstone ledge

Oil well

Dry well

Township or section corner recovered

Base compiled from field sheets and from township plats of the General Land Office

GEOLOGIC MAP OF PART OF MOFFAT COUNTY, COLO., AND SOUTHERN SWEETWATER COUNTY, WYO.

1924

Geology by Julian D. Sears, assisted by W. H. Bradley, James Gilluly, and K. K. Landes

Surveyed in 1921 and 1922