R. 15 E. R. 16 E. R. 17 E. R. 18 E. R. 19 E.

T. 21 S. T. 22 S. T. 23 S. T. 24 S.

GREEN RIVER
Saleratus Wash
Horse Creek
U. S. 50
DENVER AND RIO GRANDE WESTERN
56 MILES TO HANKSVILLE
LITTLE GRAND FAULT
Fivemile Wash
EMERY CO
GRAND CO
GREEN RIVER
Ninemile Wash
Tank Spring
Dry Lake Wash
Dellenbaugh Butte
C. F. & I. WORKINGS
SALT WASH GRABEN
Hogan Quick
Spring
Little Grand Wash
Saleratus Spring Wash
Floy
Crescent Junction
6 MILES TO THOMPSONS
Crescent Wash
U. S. 160
31 MILES TO MOAB
TENMILE GRABEN
DUMA POINT
White Wash
L. M. Chaffin Ranch
SAN RAFAEL RIVER
Tenmile Wash
Tenmile Butte
NEEDLES DISTRICT
Dubinky Spring
6 MILES TO U. S. 160

EXPLANATION

Upper Cretaceous — CRETACEOUS

Kmd — Mancos shale and Dakota sandstone

UNCONFORMITY

Upper Jurassic — JURASSIC

Jm — Morrison formation
Variegated mudstone with lenticular beds of conglomeratic sandstone near top and base, and some limestone and gypsum

UNCONFORMITY (?)

Js / Jem / Js — Summerville formation
Thin-bedded reddish-brown shale and sandstone, and some limestone and gypsum; Moab tongue of Entrada sandstone (Jem) interbedded with Summerville formation in eastern part of district

Jurassic (?) and Upper Jurassic — JURASSIC (?)

Pre-Summerville strata

Contact
Dashed where approximately located

U / D — Fault
Dashed where approximately located. U, upthrown side; D, downthrown side

6 — Strike and dip of beds

14 — Manganese oxide deposit
Number referred to in text

1 0 5 Miles

Compiled from map of area east of Green River by E. T. McKnight (Bull. 908), from map of area west of Green River by A. A. Baker (Bull. 951), and from aerial photographs.

MAP OF THE LITTLE GRAND DISTRICT, UTAH, SHOWING THE LOCATION OF THE MANGANESE DEPOSITS AND THE DISTRIBUTION OF THE FORMATIONS CONTAINING THE DEPOSITS

971773 O - 52 (in pocket) No. 2